TSG-RAN Meeting #15 Cheju, Korea, 5 - 8 March 2002

Title: Change requests for WI "TEI"

Source: TSG-RAN WG3

RP_Num	Tdoc_Num	Specification	CR_Num	Revision	3G_Release	CR_Subject	CR_Category	Cur_Ver_Num	Workitem
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RP-020188	R3-020736	25.413	409	2	Rel-5	Transport Layer Address at RAB modification	В	4.3.0	TEI
RP-020188	R3-020893	25.413	428	3	Rel-5	Implementation of Handover/Relocation Solution for Inter- RAN Load Information Exchange between RAN and GERAN for Rel'5	В	4.3.0	TEI
RP-020188	R3-020749	25.423	433	4	Rel-5	Power Balancing Activation with Radio Link Setup and Radio Link Addition procedures in RNSAP	С	4.3.0	TEI
RP-020188	R3-020751	25.423	434	3	Rel-5	Power Balancing Restart with Radio Link Reconfiguration procedure in RNSAP	С	4.3.0	TEI
RP-020188	R3-020269	25.423	473	2	Rel-5	Traffic class signalling over lur	В	4.3.0	TEI
RP-020188	R3-020522	25.423	506	2	Rel-5	Alignment to RAN4 specifications for CPICH Ec/No	В	4.3.0	TEI
RP-020188	R3-020408	25.423	558		Rel-5	RNSAP Reset procedure	В	4.3.0	TEI
RP-020188	R3-020748	25.423	569	1	Rel-5	Uplink SIR Target in RL Setup Response TDD	В	4.3.0	TEI
RP-020188	R3-020828	25.423	572	2	Rel-5	Traffic class signalling for USCH	В	4.3.0	TEI
RP-020188	R3-020819	25.423	577	4	Rel-5	New Measurement Type in Common Measurements	В	4.3.0	TEI
RP-020188	R3-020754	25.423	587	1	Rel-5	Introduction of cell relation parameter	В	4.3.0	TEI
RP-020188	R3-020521	25.433	425	4	Rel-5	DL Power Capability as a shared resource between Cells	В	4.3.0	TEI
RP-020188	R3-020750	25.433	496	4	Rel-5	Power Balancing Activation with Radio Link Setup and Radio Link Addition procedures in NBAP	С	4.3.0	TEI
RP-020188	R3-020752	25.433	497	3	Rel-5	Power Balancing Restart with Radio Link Reconfiguration procedure in NBAP	С	4.3.0	TEI
RP-020188	R3-020353	25.433	502	2	Rel-5	Initial DL Power Per CCTrCH	В	4.3.0	TEI
RP-020188	R3-020409	25.433	598		Rel-5	Introduction separate max PDSCH power limitation	В	4.3.0	TEI

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8.2 RAB Assignment

8.2.1 General

The purpose of the RAB Assignment procedure is to establish new RABs and/or to enable modifications and/or releases of already established RABs for a given UE. The procedure uses connection oriented signalling.

8.2.2 Successful Operation



* it can be several responses

Figure 1: RAB Assignment procedure. Successful operation.

The CN shall initiate the procedure by sending a RAB ASSIGNMENT REQUEST message. When sending the RAB ASSIGNMENT REQUEST message, the CN shall start the T $_{RABAssgt}$ timer.

The CN may request UTRAN to:

- establish,
- modify,
- release

one or several RABs with one RAB ASSIGNMENT REQUEST message.

The CN shall include in the RAB ASSIGNMENT REQUEST message at least one request to either establish/modify or release a RAB.

The message shall contain the information required by the UTRAN to build the new RAB configuration, such as:

- list of RABs to establish or modify with their bearer characteristics;
- list of RABs to release.

For each RAB requested to establish, the message shall contain:

- RAB ID.
- NAS Synchronisation Indicator (only when available).
- RAB parameters (including e.g. Allocation/Retention Priority).
- User Plane Information (i.e required User Plane Mode and required UP Mode Versions).

- Transport Layer Information.
- PDP Type Information (only for PS)
- Data Volume Reporting Indication (only for PS).
- DL GTP-PDU sequence number (only when GTP-PDU sequence number is available in cases of handover from GPRS to UMTS or when establishing a RAB for an existing PDP context).
- UL GTP-PDU sequence number (only when GTP-PDU sequence number is available in cases of handover from GPRS to UMTS or when establishing a RAB for an existing PDP context).
- DL N-PDU sequence number (only when N-PDU sequence number is available in case of handover from GPRS to UMTS).
- UL N-PDU sequence number (only when N-PDU sequence number is available in case of handover from GPRS to UMTS).

For each RAB requested to modify, the message may contain:

- RAB ID (mandatory).
- NAS Synchronisation Indicator.
- RAB parameters.
- Transport Layer Information .
- User Plane Information.

The *Transport Layer Information* IE may only be present if at least one more IE than the *RAB ID* IE and the *NAS Synchronisation Indicator* IE is also included.

At a RAB modification, the *RAB parameter* IE and the *User Plane Information* IE shall be present in RAB ASSIGNMENT REQUEST message only when any previously set value is requested to be modified.

If, for a RAB requested to be modified, one (or more) of these IEs except *RAB ID* IE are not present in RAB ASSIGNMENT REQUEST message the RNC shall continue to use the value(s) currently in use for the not present IEs.

For each RAB request to release, the message shall contain:

- RAB ID.
- Cause.

Upon reception of the RAB ASSIGNMENT REQUEST message UTRAN shall execute the requested RAB configuration. The CN may indicate that RAB QoS negotiation is allowed for certain RAB parameters and in some cases also which alternative values to be used in the negotiation.

The same RAB ID shall only be present once in the whole RAB ASSIGNMENT REQUEST message.

The RAB ID shall identify uniquely the RAB for the specific CN domain for the particular UE, which makes the RAB ID unique over the Iu connection on which the RAB ASSIGNMENT REQUEST message is received. When a RAB ID already in use over that particular Iu instance is used, the procedure is considered as modification of that RAB.

The RNC shall pass the contents of *RAB ID* IE to the radio interface protocol for each RAB requested to establish or modify.

The RNC shall establish or modify the resources according to the values of the *Allocation/Retention Priority* IE (priority level, pre-emption indicators, queuing) and the resource situation as follows:

- The RNC shall consider the priority level of the requested RAB, when deciding on the resource allocation.
- If the requested RAB is allowed for queuing and the resource situation so requires, RNC may place the RAB in the establishment queue.

- The priority levels and the pre-emption indicators may (singularly or in combination) be used to determine whether the RAB assignment has to be performed unconditionally and immediately. If the requested RAB is marked as "may trigger pre-emption" and the resource situation so requires, RNC may trigger the pre-emption procedure which may then cause the forced release of a lower priority RAB which is marked as "pre-emptable". Whilst the process and the extent of the pre-emption procedure is operator dependent, the pre-emption indicators, if given in the RAB ASSIGNMENT REQUEST message, shall be treated as follows:
 - 1. The values of the last received Pre-emption Vulnerability IE and Priority Level IE shall prevail.
 - 2. If the *Pre-emption Capability* IE is set to "may trigger pre-emption", then this allocation request may trigger the pre-emption procedure.
 - 3. If the *Pre-emption Capability* IE is set to "shall not trigger pre-emption", then this allocation request shall not trigger the pre-emption procedure.
 - 4. If the *Pre-emption Vulnerability* IE is set to "pre-emptable", then this connection shall be included in the pre-emption process.
 - 5. If the *Pre-emption Vulnerability* IE is set to "not pre-emptable", then this connection shall not be included in the pre-emption process.
 - 6. If the *Priority Level* IE is set to "no priority" the given values for the *Pre-emption Capability* IE and *Pre-emption Vulnerability* IE shall not be considered. Instead the values "shall not trigger pre-emption" and "not pre-emptable" shall prevail.
- If the *Allocation/Retention Priority* IE is not given in the RAB ASSIGNMENT REQUEST message, the allocation request shall not trigger the pre-emption process and the connection may be pre-empted and considered to have the value "lowest" as priority level. Moreover, queuing shall not be allowed.
- The UTRAN pre-emption process shall keep the following rules:
 - 1. UTRAN shall only pre-empt RABs with lower priority, in ascending order of priority.
 - 2. The pre-emption may be done for RABs belonging to the same UE or to other UEs.

If the *NAS Synchronisation Indicator* IE is contained in the RAB ASSIGNMENT REQUEST message, the RNC shall pass it to the radio interface protocol for the transfer to the UE.

If the RAB ASSIGNMENT REQUEST message includes the *PDP Type Information* IE, the UTRAN may use this to configure any compression algorithms.

If the Service Handover IE is included, this tells if the RAB

- should be handed over to GSM, i.e. from NAS point of view, the RAB should be handed over to GSM as soon as possible although the final decision whether to perform a handover to GSM is still made in UTRAN.
- should not be handed over to GSM, i.e. from NAS point of view, the RAB should remain in UMTS as long as possible although the final decision whether to perform a handover to GSM is still made in UTRAN.
- shall not be handed over to GSM, i.e. the RAB shall never be handed over to GSM. This means that UTRAN shall not initiate handover to GSM for the UE unless the RABs with this indication have first been released with the normal release procedures.

The value of the *Service Handover* IE is valid throughout the lifetime of the RAB or until changed by a RAB modification.

The Service Handover IE shall only influence decisions made regarding UTRAN initiated handovers.

If the *Service Handover* IE is not included, the decision whether to perform a handover to GSM is only an internal UTRAN matter.

UTRAN shall report to CN, in the first RAB ASSIGNMENT RESPONSE message, the result for all the requested RABs, such as:

- List of RABs successfully established or modified.

- List of RABs released.
- List of RABs queued.
- List of RABs failed to establish or modify.
- List of RABs failed to release.

The same RAB ID shall only be present once in the whole RAB ASSIGNMENT RESPONSE message.

For each RAB successfully established towards the PS domain, the RNC shall include the *Transport Layer Address* IE and the *Iu Transport Association* IE in the RAB ASSIGNMENT RESPONSE message.

For each RAB successfully modified or released towards the PS domain, for which data volume reporting has been requested, the RNC shall include the *DL Data Volumes* IE in the RAB ASSIGNMENT RESPONSE message.

For each RAB successfully released towards the PS domain, the RNC shall include in the RAB ASSIGNMENT RESPONSE message, if available, the *DL GTP-PDU Sequence Number* IE and the *UL GTP-PDU Sequence Number* IE, if the release was initiated by UTRAN.

The RNC shall report in the RAB ASSIGNMENT RESPONSE message at least one RAB

- setup/modified or
- released or
- queued or
- failed to setup/modify or
- failed to release.

If any alternative RAB parameter values have been used when establishing or modifying a RAB, these RAB parameter values shall be included in the RAB ASSIGNMENT RESPONSE message.

For the CS domain, UTRAN shall report the outcome of a specific RAB to establish or modify only after the transport network control plane signalling, which is needed for RAB establishment or modification, has been executed. At a RAB establishment, the transport network control plane signalling shall use the *Transport Layer Address* IE and *Iu Transport Association* IE. At a RAB modification when *Transport Layer Address* IE and *Iu Transport Association* IE is included, it is up to the RNC to decide if any transport network control plane signalling shall be performed or if the already existing transport bearer shall be used. If the RNC decides to establish a new transport bearer.⁵ T the transport network control plane signalling shall then use the possibly included *Transport Layer Address* IE and *Iu Transport Association* IE. Then the switch over to this new transport bearer shall be done immediately after transport bearer establishment and initialisation of the user plane mode. If *Transport Layer Address* IE and *Iu Transport Association* IE is not included, then the RNC decides to may modify the already existing transport bearer, the transport network control plane signalling shall not use the possibly included *Transport Layer Address* IE and *Iu Transport Association* IE. That is, re-binding with *Iu Transport Association* IE shall not be done.

For each RAB successfully modified towards the PS domain, if the RNC has changed the *Transport Layer Address* IE and/or the *Iu Transport Association* IE, it shall include the new value(s) in the RAB ASSIGNMENT RESPONSE message.

Before reporting the successful outcome of a specific RAB to establish or modify, the RNC shall have executed the initialisation of the user plane mode as requested by the CN in the *User Plane Mode* IE. If the RNC is requested to execute the user plane initialisation for the *User Plane Mode* "support mode for predefined SDU sizes", it shall initialise all RAB subflow combinations on Iu as indicated in the *RAB parameters* IE. If not all of the indicated RAB subflow combinations can be initialised the RAB Assignment fails with the cause value "RNC unable to establish all RFCs". The user plane initialisation is described in ref.[6].

In case of establishment of a RAB for the PS domain, the CN must be prepared to receive user data before the RAB ASSIGNMENT RESPONSE message has been received.

If none of the RABs have been queued, the CN shall stop timer T_{RABAssgt.} And the RAB Assignment procedure terminates. In that case, the procedure shall also be terminated in UTRAN.

When the request to establish or modify one or several RABs is put in the queue, UTRAN shall start the timer $T_{QUEUING}$. This timer specifies the maximum time for queuing of the request of establishment or modification. The same timer $T_{QUEUING}$ is supervising all RABs being queued.

For each RAB that is queued the following outcomes shall be possible:

- successfully established or modified;
- failed to establish or modify;
- failed due to expiry of the timer T_{QUEUING}.

For the queued RABs, indicated in the first RAB ASSIGNMENT RESPONSE message, UTRAN shall report the outcome of the queuing for every RAB individually or for several RABs in subsequent RAB ASSIGNMENT RESPONSE message(s). This is left to implementation. UTRAN shall stop $T_{QUEUING}$ when all RABs have been either successfully established or modified or failed to establish or modify. The RAB Assignment procedure is then terminated both in CN and UTRAN when all RABs have been responded to.

When CN receives the response that one or several RABs are queued, CN shall expect UTRAN to provide the outcome of the queuing function for each RAB before expiry of the T_{RABAssgt} timer. In case the timer T_{RABAssgt} expires, the CN shall consider the RAB Assignment procedure terminated and the RABs not reported shall be considered as failed.

In the case the timer $T_{QUEUING}$ expires, the RAB Assignment procedure terminates in UTRAN for all queued RABs, and UTRAN shall respond for all of them in one RAB ASSIGNMENT RESPONSE message. The RAB Assignment procedure shall also be terminated in CN.

In case a request to modify or release a RAB contains the RAB ID of a RAB being queued, the RAB shall be taken out of the queue and treated according to the second request. The first request shall be responded to as a RAB failed to setup or modify with the cause value "Request superseded".

When UTRAN reports unsuccessful establishment/modification of a RAB, the cause value should be precise enough to enable the core network to know the reason for unsuccessful establishment/modification. Typical cause values are: "Requested Traffic Class not Available", "Invalid RAB Parameters Value", "Requested Maximum Bit Rate not Available", "Requested Maximum Bit Rate for DL not Available", "Requested Guaranteed Bit Rate for DL not Available", "Requested Guaranteed Bit Rate for UL not Available", "Requested Guaranteed Bit Rate for UL not Available", "Requested Guaranteed Bit Rate for UL not Available", "Requested Transfer Delay not Achievable", "Invalid RAB Parameters Combination", "Condition Violation for SDU Parameters", "Condition Violation for Traffic Handling Priority", "Condition Violation for Guaranteed Bit Rate", "User Plane Versions not Supported", "Iu UP Failure", "Iu Transport Connection Failed to Establish".

If the RAB ID of a RAB requested to be released is unknown in the RNC, this shall be reported as a RAB failed to release with the cause value "Invalid RAB ID".

The RNC may indicate an impending directed retry attempt to GSM by sending RAB ASSIGNMENT RESPONSE message with a RAB ID included in the list of RABs failed to setup and a cause value of "Directed Retry".

The RNC shall be prepared to receive a RAB ASSIGNMENT REQUEST message containing a *RABs To Be Released* IE at any time and shall always reply to it. If there is an ongoing RAB Assignment procedure for a RAB indicated within the *RABs To Be Released* IE, the RNC shall discard the preceding RAB Assignment procedure for that specific RAB, release any related resources and report the released RAB within the RAB ASSIGNMENT RESPONSE message.

After sending RAB ASSIGNMENT RESPONSE message containing RAB ID within the *RABs Released* IE, the RNC shall be prepared to receive new establishment request of a RAB identified by the same RAB ID

8.2.3 Unsuccessful Operation

The unsuccessful operation for this Class 3 Elementary procedure is described under the Successful Operation chapter.

8.2.4 Abnormal Conditions

For a RAB requested to be modified, if only the *RAB ID* IE, the *NAS Synchronisation Indicator* IE and the *Transport Layer Information* IE are included in the *First Setup or Modify Item* IE this RAB shall not be modified, and the

corresponding *RAB ID* IE with *Cause* IE shall be included in the "RABs Failed To Setup Or Modify List" in the RAB ASSIGNMENT RESPONSE message.

If, for a RAB requested to be setup towards the PS domain, any of these following IEs:

- PDP Type Information.
- Data Volume Reporting Indication.

is not present, the RNC shall continue with the procedure.

Interactions with Relocation Preparation procedure:

If the relocation becomes necessary during the RAB Assignment procedure, the RNC may interrupt the ongoing RAB Assignment procedure and initiate the Relocation Preparation procedure as follows:

- 1. The RNC shall terminate the RAB Assignment procedure indicating unsuccessful RAB configuration modification:
 - for all queued RABs;
 - for RABs not already established or modified, and
 - for RABs not already released;

with the cause "Relocation triggered".

- 2. The RNC shall terminate the RAB Assignment procedure indicating successful RAB configuration modification:
 - for RABs already established or modified but not yet reported to the CN, and
 - for RABs already released but not yet reported to the CN.
- 3. The RNC shall report this outcome of the procedure in one RAB ASSIGNMENT RESPONSE message.
- 4. The RNC shall invoke relocation by sending the RELOCATION REQUIRED message to the active CN node(s).
- 5. The CN shall terminate the RAB Assignment procedure at reception of the RAB ASSIGNMENT RESPONSE message.

Directed retry from UMTS to GSM (CS domain only):

In the case where the RNC has no RAB configuration for a particular UE in the CS domain, and the RNC receives a RAB ASSIGNMENT REQUEST message for that UE requesting the establishment of one RAB only, a directed retry to GSM may be initiated. In this case the RNC may interrupt the ongoing RAB Assignment procedure and initiate the Relocation Preparation procedure as follows:

- 1. The RNC shall terminate the RAB Assignment procedure indicating unsuccessful RAB configuration modification of that RAB with the cause "Directed retry".
- 2. The RNC shall report this outcome of the procedure in one RAB ASSIGNMENT RESPONSE message.
- 3. The RNC shall invoke relocation by sending the RELOCATION REQUIRED message to the active CN node, with the cause "Directed Retry".
- 4. The CN shall terminate the RAB Assignment procedure at reception of the RAB ASSIGNMENT RESPONSE message

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Other specs affected:	X Other core specifications X TS 48.008 Test specifications O&M Specifications TS 48.008
Other comments:	X

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3 Definitions, symbols and abbreviations

3.1 Definitions

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

Cell Load-Based Inter-System Handover: This mechanism, which is contained within a UTRAN RNC, consists of three primary functions:

- 1. The RNC has the capability to generate and send Cell Load Information towards the target/source system.
- 2. <u>The RNC has the capability to receive Cell Load Information from the target/source system, and is able to interpret this information.</u>

The ability of the RNC to make a handover decision by comparing the Cell Load Information that it has received from the target system with the Cell Load Information it has about its own cells.

Default CN node: An RNC has one single permanent default CN node per CN domain. It always initiates the Initial UE Message procedure towards its default CN node.

Relocation of SRNS: relocation of SRNS is a UMTS functionality used to relocate the serving RNS role from one RNS to another RNS. This UMTS functionality is realised by several elementary procedures executed in several interfaces and by several protocols and it may involve a change in the radio resources used between UTRAN and UE

It is also possible to relocate the serving RNS role from:

- one RNS within UMTS to another relocation target external to UMTS;
- functionality equivalent to the serving RNS role from another relocation source external to UMTS to another RNS.

Serving RNS (SRNS): role an RNS can take with respect to a specific connection between an UE and UTRAN. There is one serving RNS for each UE that has a connection to UTRAN. The serving RNS is in charge of the radio connection between a UE and the UTRAN. The serving RNS terminates the Iu for this UE

Serving RNC (SRNC): SRNC is the RNC belonging to SRNS

SRNC-ID: see [3] for definition

S-RNTI: see [3] for definition

Source RNS: role, with respect to a specific connection between UTRAN and CN, that RNS takes when it decides to initiate a relocation of SRNS

Source RNC: source RNC is the RNC belonging to source RNS

Target RNS: role an RNS gets with respect to a specific connection between UTRAN and CN when it is being a subject of a relocation of SRNS which is being made towards that RNS

Target RNC: target RNC is the RNC belonging to target RNS

Directed retry: Directed retry is the process of assigning a User Equipment to a radio resource that does not belong to the serving RNC e.g. in situations of congestion. It is triggered by the RAB Assignment procedure and employs relocation procedures.

Elementary Procedure: RANAP protocol consists of Elementary Procedures (EPs). An Elementary Procedure is a unit of interaction between the RNS and the CN. These Elementary Procedures are defined separately and are intended to be used to build up complete sequences in a flexible manner. If the independence between some EPs is restricted, it is described under the relevant EP description. Unless otherwise stated by the restrictions, the EPs may be invoked independently of each other as stand alone procedures, which can be active in parallel. Examples on using several RANAP EPs together with each other and EPs from other interfaces can be found in reference [4].

An EP consists of an initiating message and possibly a response message. Three kinds of EPs are used:

- Class 1: Elementary Procedures with response (success and/or failure).
- Class 2: Elementary Procedures without response.
- Class 3: Elementary Procedures with possibility of multiple responses.

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

Successful:

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

Unsuccessful:

- A signalling message explicitly indicates that the EP failed.
- On time supervision expiry (i.e. absence of expected response).

Successful and Unsuccessful:

- One signalling message reports both successful and unsuccessful outcome for the different included requests. The response message used is the one defined for successful outcome.

Class 2 EPs are considered always successful.

Class 3 EPs have one or several response messages reporting both successful, unsuccessful outcome of the requests and temporary status information about the requests. This type of EP only terminates through response(s) or EP timer expiry.

8.6.2 Successful Operation





The source RNC shall initiate the procedure by generating RELOCATION REQUIRED message. The source RNC shall decide whether to initiate the intra-system Relocation or the inter-system Relocation. In case of intra-system Relocation the source RNC shall indicate in the *Source ID* IE the RNC-ID of the source RNC and in the *Target ID* IE the RNC-ID of the target RNC. In case of inter-system Relocation the source RNC shall indicate in the *Source ID* IE the cell global identity of the cell in the target system. The source RNC shall indicate the appropriate cause value for the Relocation in the *Cause* IE. Typical cause values are "Time critical Relocation", "Resource optimisation relocation", "Relocation desirable for radio reasons", "Directed Retry", "Reduce Load in Serving Cell".

The source RNC shall determine whether the relocation of SRNS shall be executed with or without involvement of UE. The source RNC shall set the *Relocation Type* IE accordingly to "UE involved in relocation of SRNS " or "UE not involved in relocation of SRNS ".

In case of intra-system Relocation, the source RNC shall include in the RELOCATION REQUIRED message the *Source RNC to Target RNC Transparent Container* IE. This container shall include the *Relocation Type* IE and the number of Iu signalling connections existing for the UE by setting correctly the *Number of Iu Instances* IE. If available,

this container shall further include the *Chosen Integrity Protection Algorithm* IE and the *Integrity Protection Key* IE. If ciphering is active, this container shall include, for ciphering information of signalling data, the *Chosen Encryption Algorithm* IE and the *Ciphering Key* IE, for ciphering information of CS user data the *Chosen Encryption Algorithm CS* IE and for ciphering information of PS user data the *Chosen Encryption Algorithm PS* IE. This container shall include the *RRC Container* IE. If the *Relocation Type* IE is set to "UE not involved in relocation of SRNS" and the UE is using DCH(s), DSCH(s) or USCH(s), the *Source RNC to Target RNC Transparent Container* IE shall include the mapping between each RAB subflow and transport channel identifier(s), i.e. if the RAB is carried on a DCH(s), the DCH ID(s) shall be included, and when it is carried on DSCH(s) or USCH(s), the DSCH ID(s) or USCH ID(s) respectively shall be included. If the *Relocation Type* IE is set to "UE not involved in relocation of SRNS", the *d-RNTI* IE shall be included in the *Source RNC to Target Cell ID* IE shall be included in the *Source RNC to Target RNC Transparent Container* IE.

In case of intersystem handover to GSM the RNC:

- shall include *MS Classmark 2* and *MS Classmark 3* IEs received from the UE in the RELOCATION REQUIRED message to the CN.
- shall include the *Old BSS to New BSS* IE within the RELOCATION REQUIRED message only if the information is available.

The source RNC shall send the RELOCATION REQUIRED message to the CN and the source RNC shall start the timer $T_{RELOCprep.}$

When the preparation including resource allocation in the target system is ready and the CN has decided to continue the relocation of SRNS, the CN shall send RELOCATION COMMAND message to the source RNC and the CN shall start the timer $T_{RELOC complete}$.

If the *Target RNC To Source RNC Transparent Container* IE or the *L3 information* IE is received by the CN from the relocation target, it shall be included in the RELOCATION COMMAND message.

The RELOCATION COMMAND message may also contain the Inter-System Information Transparent Container IE.

For each RAB successfully established in the target system and originating from the PS domain, the RELOCATION COMMAND message shall contain Iu transport address and Iu transport association to be used for the forwarding of the DL N-PDU duplicates towards the relocation target. Upon reception of the RELOCATION COMMAND message from the PS domain, the source RNC shall start the timer T_{DATAfwd}.

The Relocation Preparation procedure is terminated in the CN by transmission of RELOCATION COMMAND message.

If the target system (including target CN) does not support all existing RABs, the RELOCATION COMMAND message shall contain a list of RABs indicating all the RABs that are not supported by the target system. This list is contained in the *RABs to Be Released* IE. The source RNC may use this information e.g. to decide if to cancel the relocation or not. The resources associated with these not supported RABs shall not be released until the relocation is completed. This is in order to make a return to the old configuration possible in case of a failed or cancelled relocation.

Upon reception of RELOCATION COMMAND message the source RNC shall stop the timer $T_{RELOCprep}$, RNC shall start the timer $T_{RELOCOverall}$ and RNC shall terminate the Relocation Preparation procedure. The source RNC is then defined to have a Prepared Relocation for that Iu signalling connection.

When Relocation Preparation procedure is terminated successfully and when the source RNC is ready, the source RNC should trigger the execution of relocation of SRNS.

Interactions with other procedures:

If, after RELOCATION REQUIRED message is sent and before the Relocation Preparation procedure is terminated, the source RNC receives a RANAP message initiating an other connection oriented RANAP class 1 or class 3 procedure (except IU RELEASE COMMAND message, which shall be handled normally) via the same Iu signalling connection, the source RNC shall either:

1. cancel the Relocation Preparation procedure i.e. execute Relocation Cancel procedure with an appropriate value for the *Cause* IE, e.g. "Interaction with other procedure", and after successful completion of Relocation Cancel procedure, the source RNC shall continue the initiated RANAP procedure;

or

2. terminate the initiated RANAP procedure without any changes in UTRAN by sending appropriate response message with the cause value "Relocation Triggered" to the CN. The source RNC shall then continue the relocation of SRNS.

If during the Relocation Preparation procedure the source RNC receives a DIRECT TRANSFER message it shall be handled normally.

If during the Relocation Preparation procedure the source RNC receives connection oriented RANAP class 2 messages (with the exception of DIRECT TRANSFER message) it shall decide to either execute the procedure immediately or suspend it. In the case the relocation is cancelled the RNC shall resume any suspended procedures (if any).

After Relocation Preparation procedure is terminated successfully, all RANAP messages (except IU RELEASE COMMAND message, which shall be handled normally) received via the same Iu signalling bearer shall be ignored by the source RNC.

8.6.3 Unsuccessful Operation



Figure 2: Relocation Preparation procedure. Unsuccessful operation.

If the CN or target system is not able to even partially accept the relocation of SRNS or a failure occurs during the Relocation Preparation procedure in the CN or the CN decides not to continue the relocation of SRNS, the CN shall send RELOCATION PREPARATION FAILURE message to the source RNC.

RELOCATION PREPARATION FAILURE message shall contain appropriate value for the *Cause* IE e.g. "T_{RELOCalloc} expiry", "Relocation Failure in Target CN/RNC or Target System", "Relocation not supported in Target RNC or Target System", "Relocation Target not allowed", <u>"No Radio Resources Available in Target Cell"</u>.

Transmission of RELOCATION PREPARATION FAILURE message terminates the procedure in the CN. Reception of RELOCATION PREPARATION FAILURE message terminates the procedure in UTRAN.

When the Relocation Preparation procedure is unsuccessfully terminated, the existing Iu signalling connection can be used normally.

If the Relocation Preparation procedure is terminated unsuccessfully, the CN shall release the possibly existing Iu signalling connection for the same UE and related to the same relocation of SRNS towards the target RNC by initiating Iu Release procedure towards the target RNC with an appropriate value for the *Cause* IE, e.g. "Relocation Cancelled".

<u>The RELOCATION PREPARATION FAILURE message may contain the Inter-System Information Transparent</u> <u>Container IE.</u>

Interactions with Relocation Cancel procedure:

If there is no response from the CN to the RELOCATION REQUIRED message before timer $T_{RELOCprep}$ expires in the source RNC, the source RNC shall cancel the Relocation Preparation procedure by initiating the Relocation Cancel procedure with appropriate value for the *Cause* IE, e.g. "T_{RELOCprep} expiry".

8.7.2 Successful Operation



Figure 3: Relocation Resource Allocation procedure. Successful operation.

The CN shall initiate the procedure by generating RELOCATION REQUEST message. In a UTRAN to UTRAN relocation, this message shall contain the information (if any) required by the UTRAN to build the same RAB configuration as existing for the UE before the relocation. The CN may indicate that RAB QoS negotiation is allowed for certain RAB parameters and in some cases also which alternative values to be used in the negotiation.

The CN shall transmit the RELOCATION REQUEST message to target RNC and the CN shall start the timer $T_{RELOCalloc.}$

When a RELOCATION REQUEST message is sent from a CN node towards an RNC for which the sending CN node is not the default CN node, the *Global CN-ID* IE shall be included.

Upon reception of the RELOCATION REQUEST message, the target RNC shall initiate allocation of requested resources.

The RELOCATION REQUEST message shall contain following IEs

- Permanent NAS UE Identity IE (if available)
- Cause
- CN Domain Indicator
- Source RNC To Target RNC Transparent Container
- Iu Signalling Connection Identifier
- Integrity Protection Information IE (if available)

For each RAB requested to relocate, the message shall contain following IEs:

- RAB-ID
- NAS Synchronisation Indicator IE (if the relevant NAS information is provided by the CN)
- RAB parameters
- User Plane Information
- Transport Layer Address
- Iu Transport Association

- Data Volume Reporting Indication (only for PS)
- *PDP Type Information* (only for PS)

The RELOCATION REQUEST message may include following IEs:

- Encryption Information

For each RAB requested to relocate the message may include following IEs:

- Service Handover.
- Alternative RAB Parameter Values.

The following information elements received in RELOCATION REQUEST message require the same special actions in the RNC as specified for the same IEs in the RAB Assignment procedure:

- RAB-ID
- User plane Information(i.e. required User Plane Mode and required User Plane Versions)
- Priority level, queuing and pre-emption indication
- Service Handover

If the RELOCATION REQUEST message includes the *PDP Type Information* IE, the UTRAN may use this IE to configure any compression algorithms.

The Cause IE shall contain the same value as the one received in the related RELOCATION REQUIRED message.

The *Iu Signalling Connection Identifier* IE contains an Iu signalling connection identifier which is allocated by the CN, and which the RNC is required to store and remember for the duration of the Iu connection.

The *Global CN-ID* IE contains the identity of the CN node that sent the RELOCATION REQUEST message, and it shall, if included, be stored together with the Iu signalling connection identifier. If the *Global CN-ID* IE is not included, the RELOCATION REQUEST message shall be considered as coming from the default CN node for the indicated CN domain.

Following additional actions shall be executed in the target RNC during Relocation Resource Allocation procedure:

If the Relocation Type IE is set to "UE involved in relocation of SRNS":

- The target RNC may accept a requested RAB only if the RAB can be supported by the target RNC.
- Other RABs shall be rejected by the target RNC in the RELOCATION REQUEST ACKNOWLEDGE message with an appropriate value for *Cause* IE, e.g. "Unable to Establish During Relocation".
- The target RNC shall include information adapted to the resulting RAB configuration in the target to source RNC transparent container to be included in the RELOCATION REQUEST ACKNOWLEDGE message sent to the CN. If the target RNC supports triggering of the Relocation Detect procedure via the Iur interface, the RNC shall assign a d-RNTI for the context of the relocation and include it in the container. If two CNs are involved in the relocation of SRNS, the target RNC may, however, decide to send the container to only one CN.
- If any alternative RAB parameter values have been used when allocating the resources, these RAB parameter values shall be included in the RELOCATION REQUEST ACKNOWLEDGE message within the *Assigned RAB Parameter Values* IE.

If the *Relocation Type* IE is set to "UE not involved in relocation of SRNS":

- The target RNC may accept a RAB only if the radio bearer(s) for the RAB either exist(s) already, and can be used for the RAB by the target RNC, or does not exist before the relocation but can be established in order to support the RAB in the target RNC.
- If existing radio bearers are not related to any RAB that is accepted by target RNC, the radio bearers shall be ignored during the relocation of SRNS and the radio bearers shall be released by radio interface protocols after completion of relocation of SRNS.

- If any alternative RAB parameter values have been used when allocating the resources, these RAB parameter values shall be included in the RELOCATION REQUEST ACKNOWLEDGE message within the *Assigned RAB Parameter Values* IE. It should be noted that the usage of alternative RAB parameter values is not applicable to the UTRAN initiated relocation of type "UE not involved in relocation of SRNS".

After all necessary resources for accepted RABs including the initialised Iu user plane, are successfully allocated, the target RNC shall send RELOCATION REQUEST ACKNOWLEDGE message to the CN.

For each RAB successfully setup the RNC shall include following IEs:

- RAB ID
- Transport Layer Address (only for PS)
- Iu Transport Association (only for PS)

For each RAB the RNC is not able to setup during Relocation Resource Allocation the RNC shall include the *RAB ID* IE and the *Cause* IE within the *RABs Failed To Setup* IE. The resources associated with the RABs indicated as failed to set up shall not be released in the CN until the relocation is completed. This is in order to make a return to the old configuration possible in case of a failed or cancelled relocation.

The RELOCATION REQUEST ACKNOWLEDGE message sent to by the CN shall, if applicable and if not sent via the other CN domain, include the *Target RNC To Source RNC Transparent Container* IE. This container shall be transferred by CN to the source RNC or the external relocation source while completing the Relocation Preparation procedure.

If the target RNC supports cell load-based inter-system handover, then in the case of inter-system handover, the *New BSS to Old BSS Information* IE may be included in the RELOCATION REQUEST ACKNOWLEDGE message.

If the *Integrity Protection Information* IE was included in the RELOCATION REQUEST message, the RNC shall include the *Chosen Integrity Protection Algorithm* IE within the RELOCATION REQUEST ACKNOWLEDGE message, if the *Encryption Information* IE was included, the RNC shall include the *Chosen Encryption Algorithm* IE.

If one or more of the RABs that the target RNC has decided to support can not be supported by the CN, then these failed RABs shall not be released towards the target RNC until the relocation is completed.

If the NAS Synchronisation Indicator IE is contained in the RELOCATION REQUEST message, the target RNC shall pass it to the source RNC within the RRC Container IE contained in the Target RNC to Source RNC Transparent Container IE.

Transmission and reception of RELOCATION REQUEST ACKNOWLEDGE message terminates the procedure in the UTRAN and the CN respectively.

Before reporting the successful outcome of the Relocation Resource allocation procedure, the RNC shall have executed the initialisation of the user plane mode as requested by the CN in the *User Plane Mode* IE. If the RNC is requested to execute the user plane initialisation for the *User Plane Mode* "support mode for predefined SDU sizes", it shall initialise all RAB subflow combinations on Iu as indicated in the *RAB parameters* IE. If not all of the indicated RAB subflow combinations can be initialised the RAB Assignment fails with the cause value "RNC unable to establish all RFCs". The user plane initialisation is described in ref.[6].

8.7.3 Unsuccessful Operation



Figure 4: Relocation Resource Allocation procedure: Unsuccessful operation.

If the target RNC can not even partially accept the relocation of SRNS or a failure occurs during the Relocation Resource Allocation procedure in the target RNC, the target RNC shall send RELOCATION FAILURE message to the CN.

Transmission and reception of RELOCATION FAILURE message terminates the procedure in the UTRAN and the CN respectively.

When CN has received RELOCATION FAILURE message from target RNC, CN shall stop timer $T_{RELOCalloc}$ and shall assume possibly allocated resources within target RNC completely released.

In the case of inter-system handover, and if the target RNC supports cell load-based inter-system handover, then

the NewBSS to Old BSS Information IE may be included in the RELOCATION FAILURE message.

the RELOCATION FAILURE message may contain the appropriate value in the *Cause* IE, e.g. "No Radio Resources Available in Target Cell".

9.1.11 RELOCATION REQUEST ACKNOWLEDGE

This message is sent by the target RNC to inform the CN about the result of the resource allocation for the requested relocation.

Direction: RNC \rightarrow CN.

Signalling bearer mode: Connection oriented.

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	М		9.2.1.1		YES	reject
Target RNC To Source RNC Transparent Container	0		9.2.1.30		YES	ignore
New BSS To Old BSS Information	<u>O</u>		<u>9.2.1.x</u>	Defined in [11].	<u>YES</u>	<u>ignore</u>
RABs Setup List	0				YES	reject
>RABs Setup Item IEs		1 to <maxnoofrabs></maxnoofrabs>			EACH	reject
>>RAB ID	Μ		9.2.1.2		-	
>>Transport Layer Address	0		9.2.2.1		-	
>>Iu Transport Association	0		9.2.2.2			
>>Assigned RAB Parameter Values	0		9.2.1.44		YES	ignore
RABs Failed To Setup List	0				YES	ignore
>RABs Failed To Setup Item IEs		1 to <maxnoofrabs></maxnoofrabs>			EACH	ignore
>>RAB ID	М		9.2.1.2		-	
>>Cause	М		9.2.1.4		-	
Chosen Integrity Protection Algorithm	0		9.2.1.13	Indicates the Integrity Protection algorithm that will be used by the target RNC.	YES	ignore
Chosen Encryption Algorithm	0		9.2.1.14	Indicates the Encryption algorithm that will be used by the target RNC.	YES	ignore
Criticality Diagnostics	0		9.2.1.35		YES	ignore

Range bound	Explanation
maxnoofRABs	Maximum no. of RABs for one UE. Value is 256.

9.1.12 RELOCATION COMMAND

This message is sent by the CN to source RNC to inform that resources for the relocation are allocated in target RNC.

Direction: $CN \rightarrow RNC$.

Signalling bearer mode: Connection oriented.

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	М		9.2.1.1		YES	reject
Target RNC To Source RNC Transparent Container	0		9.2.1.30		YES	reject
Inter-System Information Transparent Container	<u>0</u>		<u>9.2.1.x0</u>		<u>YES</u>	<u>ignore</u>
L3 Information	0		9.2.1.31	Defined in [11].	YES	ignore
RABs To Be Released List	0				YES	ignore
>RABs To Be Released		1 to			EACH	ignore
	N.4	<maxhoorkabs></maxhoorkabs>	0.04.0			
>>RAB ID	M .		9.2.1.2		-	
Forwarding List	0				YES	ignore
>RABs Subject To Data		1 to			EACH	ignore
Forwarding Item IEs		<maxnoofrabs></maxnoofrabs>				
>>RAB ID	Μ		9.2.1.2		-	
>>Transport Layer Address	М		9.2.2.1		-	
>>Iu Transport Association	Μ		9.2.2.2		-	
Criticality Diagnostics	0		9.2.1.35		YES	ignore

Range bound	Explanation
maxnoofRABs	Maximum no. of RABs for one UE. Value is 256.

9.1.15 RELOCATION PREPARATION FAILURE

This message is sent by the CN to the source RNC if the relocation preparation failed.

Direction: $CN \rightarrow RNC$.

Signalling bearer mode: Connection oriented.

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	М		9.2.1.1		YES	reject
Cause	Μ		9.2.1.4		YES	ignore
Criticality Diagnostics	0		9.2.1.35		YES	ignore
Inter-System Information	<u>0</u>		<u>9.2.1.x0</u>		<u>YES</u>	ignore
Transparent Container						

9.1.16 RELOCATION FAILURE

This message is sent by the target RNC to inform the CN that the requested resource allocation failed.

Direction: RNC \rightarrow CN.

Signalling bearer mode: Connection oriented.

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	Μ		9.2.1.1		YES	reject
Cause	Μ		9.2.1.4		YES	ignore
Criticality Diagnostics	0		9.2.1.35		YES	ignore
New BSS to Old BSS	<u>0</u>		<u>9.2.1.x</u>	Defined in	<u>YES</u>	ignore
Information				[11]		-

9.2.1.4 Cause

The purpose of the Cause IE is to indicate the reason for a particular event for the RANAP protocol.

IE/Group Name	Presence	Range	IE type and	Semantics description
Choice Cause			Tererende	
>Radio Network Layer			INTEGER	Value range is 1 – 64.
Cause			(RAB pre-	
			empted(1),	
			Trelocoverall Expiry(2),	
			Trelocprep Expiry(3),	
			Treloccomplete Expiry(4),	
			Tqueing Expiry(5),	
			Relocation Triggered(6),	
			Unable to Establish During Relocation(8),	
			Unknown Target RNC(9),	
			Relocation Cancelled(10),	
			Successful Relocation(11),	
			Requested Ciphering and/or Integrity Protection Algorithms not Supported(12),	
			Change of Ciphering and/or Integrity Protection is not supported(13),	
			Failure in the Radio Interface Procedure(14),	
			Release due to UTRAN Generated Reason(15),	
			User Inactivity(16),	
			Time Critical Relocation(17),	
			Requested Traffic Class not Available(18),	
			Invalid RAB Parameters Value(19),	
			Requested	

IE/Group Name	Presence	Range	IE type and	Semantics description
Choice Cause			reference	
			Maximum Bit Rate not Available(20),	
			Requested Maximum Bit Rate for DL not Available(33),	
			Requested Maximum Bit Rate for UL not Available(34),	
			Requested Guaranteed Bit Rate not Available(21),	
			Requested Guaranteed Bit Rate for DL not Available(35),	
			Requested Guaranteed Bit Rate for UL not Available(36),	
			Requested Transfer Delay not Achievable(22),	
			Invalid RAB Parameters Combination(23),	
			Condition Violation for SDU Parameters(24),	
			Condition Violation for Traffic Handling Priority(25),	
			Condition Violation for Guaranteed Bit Rate(26),	
			User Plane Versions not Supported(27),	
			lu UP Failure(28),	
			TRELOCalloc Expiry (7),	
			Relocation Failure in Target CN/RNC or Target System (29),	
			Invalid RAB ID(30),	

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Choice Cause				
			No remaining RAB(31),	
			Interaction with other	
			procedure(32),	
			Repeated Integrity Checking Failure(37),	
			Requested Request Type not supported(38),	
			Request superseded(39),	
			Release due to UE generated signalling connection release(40),	
			Resource Optimisation Relocation(41),	
			Requested Information Not Available(42),	
			Relocation desirable for radio reasons (43),	
			Relocation not supported in Target RNC or Target system(44),	
			Directed Retry (45),	
			Radio Connection With UE Lost(46)	
			,	
			RNC unable to establish all RFCs (47),	
			Deciphering Keys Not Available(48),	
			Dedicated Assistance data Not Available(49),	
			Relocation Target not allowed(50),	
			Reduce Load in Serving Cell (y1),	
			No Radio	

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Choice Cause				
			Resources Available in Target cell (y2)	

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Choice Cause				
>Transport Layer Cause			INTEGER (Signalling Transport Resource Failure(65),	Value range is 65 – 80.
			lu Transport Connection Failed to Establish(66),	
>NAS Cause			INTEGER (User Restriction Start Indication(81), User Restriction End	Value range is 81 – 96.
			Indication(82), Normal Release(83),)	
>Protocol Cause			INTEGER (Transfer Syntax Error(97),	Value range is 97 – 112.
			(98),	
			Message not compatible with receiver state (99),	
			Abstract Syntax Error (Reject) (100),	
			Abstract Syntax Error (Ignore and Notify) (101),	
			Abstract Syntax Error (Falsely Constructed Message) (102),	
)	
>Miscellaneous Cause			INTEGER (O&M Intervention(113),	Value range is 113 – 128.
			No Resource Available(114),	
			Unspecified Failure(115),	
			Optimisation(116),	
>Non-standard Cause			INTEGER	Value range is 129 – 256.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Choice Cause				
			()	

The meaning of the different cause values is described in the following table. In general, "not supported" cause values indicate that the concerning capability is missing. On the other hand, "not available" cause values indicate that the concerning capability is present, but insufficient resources were available to perform the requested action.

Radio Network Layer cause	Meaning
Deciphering Keys Not Available	The action failed because RNC is not able to provide requested deciphering keys
Change Of Ciphering And/Or Integrity Protection Is Not Supported	The UTRAN and/or the UE are/is unable to support the requested change of ciphering and/or integrity protection
Condition Violation For Guaranteed	algorithms. The action was not performed due to condition violation for guaranteed bit rate.
Condition Violation For SDU Parameters	The action was not performed due to condition violation for SDU parameters.
Condition Violation For Traffic	The action was not performed due to condition violation for
Handling Priority	traffic handling priority.
Available	deliver the requested dedicated assistance data to the UE.
Directed Retry	The reason for action is Directed Retry
Failure In The Radio Interface Procedure	Radio interface procedure has failed.
Interaction With Other Procedure	Relocation was cancelled due to interaction with other procedure.
Invalid RAB ID	The action failed because the RAB ID is unknown in the RNC.
Invalid RAB Parameters Combination	The action failed due to invalid RAB parameters combination.
Invalid RAB Parameters Value	The action failed due to invalid RAB parameters value.
Iu UP Failure	The action failed due to lu UP failure.
RAB Pre-empted	The reason for the action is that RAB is pre-empted
Radio Connection With UE Lost	The action is requested due to losing radio connection to the
	UE Delegge requested due to LLE generated signalling connection
Signalling Connection Release	Release requested due to UE generated signalling connection release
Release Due To UTRAN Generated	Release is initiated due to UTRAN generated reason.
Reason Relocation Cancelled	The reason for the action is relocation cancellation
Relocation Desirable for Radio	The reason for requesting relocation is radio related.
Reasons	
Relocation Failure In Target CN/RNC Or Target System	Relocation failed due to a failure in target CN/RNC or target system.
Relocation Not Supported In Target	Relocation failed because relocation was not supported in
RNC Or Target System	target RNC or target system.
	in question.
Relocation Triggered	The action failed due to relocation.
Repeated Integrity Checking Failure	checking.
Request Superseded	The action failed because there was a second request on the same RAB.
Requested Ciphering And/Or Integrity Protection Algorithms Not Supported	The UTRAN or the UE is unable to support the requested ciphering and/or integrity protection algorithms.
Requested Guaranteed Bit Rate For	The action failed because requested guaranteed bit rate for
DL Not Available	DL is not available.
Requested Guaranteed Bit Rate For UL Not Available	The action failed because requested guaranteed bit rate for UL is not available.
Requested Guaranteed Bit Rate Not Available	The action failed because requested guaranteed bit rate is not available.
Requested Information Not Available	The action failed because requested information is not available.
Requested Maximum Bit Rate For DL Not Available	The action failed because requested maximum bit rate for DL is not available.
Requested Maximum Bit Rate For UL Not Available	The action failed because requested maximum bit rate for UL is not available.
Requested Maximum Bit Rate Not	The action failed because requested maximum bit rate is not available
Requested Request Type Not	The RNC is not supporting the requested location request
Supported	type either because it doesn't support the requested event or it doesn't support the requested report area
Requested Traffic Class Not	The action failed because requested traffic class is not

Available	available.
Requested Transfer Delay Not	The action failed because requested transfer delay is not
Achievable	achievable.
Resource Optimisation Relocation	The reason for requesting relocation is resource optimisation.
Successful Relocation	The reason for the action is completion of successful
	relocation.
Time Critical Relocation	Relocation is requested for time critical reason.
T _{QUEUING} Expiry	The action failed due to expiry of the timer T _{QUEUING} .
T _{RELOCalloc} Expiry	Relocation Resource Allocation procedure failed due to expiry
	of the timer T _{RELOCalloc} .
T _{RELOCcomplete} Expiry	The reason for the action is expiry of timer T _{RELOCcomplete} .
T _{RELOCoverall} Expiry	The reason for the action is expiry of timer T _{RELOCoverall} .
T _{RELOCprep} Expiry	Relocation Preparation procedure is cancelled when timer
	T _{RELOCprep} expires.
Unable To Establish During	RAB failed to establish during relocation because it cannot be
Relocation	supported in the target RNC.
Unknown Target RNC	Relocation rejected because the target RNC is not known to
	the CN.
User Inactivity	The action is requested due to user inactivity.
User Plane Versions Not Supported	The action failed because requested user plane versions were
	not supported.
RNC unable to establish all RFCs	RNC couldn't establish all RAB subflow combinations
	indicated within the RAB Parameters IE.
Reduce Load in Serving Cell	Load on serving cell needs to be reduced.
No Radio Resources Available in	Load on target cell is too high.
Target Cell	

Transport Layer cause	Meaning
Iu Transport Connection Failed to	The action failed because the lu Transport Network Layer
Establish	connection could not be established.
Signalling Transport Resource	Signalling transport resources have failed (e.g. processor
Failure	reset).

NAS cause	Meaning	
Normal Release	The release is normal.	
User Restriction Start Indication	A location report is generated due to entering a classified area set by O&M.	
User Restriction End Indication	A location report is generated due to leaving a classified area set by O&M.	

Protocol cause	Meaning
Abstract Syntax Error (Reject)	The received message included an abstract syntax error and
	the concerning criticality indicated "reject".
Abstract Syntax Error (Ignore And	The received message included an abstract syntax error and
Notify)	the concerning criticality indicated "ignore and notify".
Abstract Syntax Error (Falsely	The received message contained IEs or IE groups in wrong
Constructed Message)	order or with too many occurrences.
Message Not Compatible With	The received message was not compatible with the receiver
Receiver State	state.
Semantic Error	The received message included a semantic error.
Transfer Syntax Error	The received message included a transfer syntax error.

Miscellaneous cause	Meaning
Network Optimisation	The action is performed for network optimisation.
No Resource Available	No requested resource is available.
O&M Intervention	The action is due to O&M intervention.
Unspecified Failure	Sent when none of the specified cause values applies.

9.2.1.28 Source RNC to Target RNC Transparent Container

Source RNC to Target RNC Transparent Container IE is an information element that is produced by source RNC and is transmitted to target RNC. In inter-system relocation the IE is transmitted from external relocation source to target RNC.

This IE is transparent to CN.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
RRC Container	М		OCTET STRING	
Number of lu Instances	М		INTEGER (1 2)	
Pelocation Type	M		02123	
Chosen Integrity Protection Algorithm	0		9.2.1.13	Indicates which integrity protection algorithm that has been used by the source RNC.
Integrity Protection Key	0		Bit String (128)	Indicates which integrity protection key that has been used by the source RNC.
Chosen Encryption Algorithm	0		9.2.1.14	Indicates which algorithm that has been used by the source RNC for ciphering of signalling data.
Ciphering Key	0		Bit String (128)	Indicates which ciphering key that has been used by the source RNC for ciphering of signalling data.
Chosen Encryption Algorithm	0		9.2.1.14	Indicates which algorithm that has been used by the source RNC for ciphering of CS user data.
Chosen Encryption Algorithm	0		9.2.1.14	Indicates which algorithm that has been used by the source RNC for ciphering of PS user data.
d-RNTI	C - ifUEnotinv olved		INTEGER (01048575)	
Target Cell ID	C - ifUEinvolve d		INTEGER (0268435455)	This information element identifies a cell uniquely within UTRAN and consists of RNC- ID (12 bits) and C-ID (16 bits) as defined in TS 25.401 [3].
Downlink Cell Load Information	<u>0</u>		Cell Load Information 9.2.1.x1	For the Downlink
Uplink Cell Load Information	<u>0</u>		Cell Load Information 9.2.1.x1	For the Uplink
RAB TrCH Mapping	0	1 to <maxnoofrab s></maxnoofrab 		
>RAB ID	М		9.2.1.2	
>RAB Subflow	Μ	1 to <maxrab- Subflows></maxrab- 		The RAB Subflows shall be presented in an order that corresponds to the order in which the RBs are presented per RAB in the RRC container included in this IE.
>> Transport Channel				
>>> DCH ID	0		INTEGER (0255)	The DCH ID is the identifier of an active dedicated transport channel. It is unique for each active DCH among the active DCHs simultaneously allocated for the same UE.
>>> DSCH ID	0		INTEGER (0255)	The DSCH ID is the identifier of an active downlink shared transport channel. It is unique for each DSCH among the active DSCHs simultaneously

			allocated for the same UE.
>>> USCH ID	0	INTEGER (0255)	The USCH ID is the identifier of an active uplink shared transport channel. It is unique for each USCH among the active USCHs simultaneously allocated for the same UE.

Condition	Explanation
IfUEnotinvolved	This IE shall be present if the Relocation type IE is set to "UE not
	involved in relocation of SRNS".
IfUEinvolved	This IE shall be present if the Relocation type IE is set to "UE
	involved in relocation of SRNS".

Range bound	Explanation
maxnoofRABs	Maximum no. of RABs for one UE. Value is 256.
maxRABSubflows	Maximum no. of subflows per RAB. Value is 7.

9.2.1.29 Old BSS to New BSS Information

The coding of this element is described in [11].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Old BSS To New BSS Information	М		OCTET STRING	Contents defined in [11].

9.2.1.x New BSS to Old BSS Information

The coding of this element is described in [11].

IE/Group Name	Presence	<u>Range</u>	IE type and reference	Semantics description
New BSS To Old BSS Information	M		OCTET STRING	Contents defined in [11].

9.2.1.x0 Inter-System Information Transparent Container

Inter-System Information Transparent Container IE is an information element that is produced by target system BSC/RNC and is transmitted to source system RNC/BSC. This IE is transparent to CN.

IE/Group Name	Presence	<u>Range</u>	IE type and	Semantics description
			<u>reference</u>	
Downlink Cell Load	<u>0</u>		Cell Load	For the Downlink
Information			Information	
			9.2.1.x1	
Uplink Cell Load Information	<u>0</u>		Cell Load	For the Uplink
			Information	
			<u>9.2.1.x1</u>	

9.2.1.x1 Cell Load Information

The *Cell Load Information* IE contains the load information of a specific (serving or target) cell for either the Downlink or the Uplink.

IE/Group Name	Presence	Range	IE type and	Semantics description
			<u>reference</u>	
Cell Load Information				
> Cell Capacity Class	M		<u>9.2.1.x2</u>	
> Cell Load	M		<u>9.2.1.x3</u>	
> Real Time Load	<u>0</u>		<u>9.2.1.x4</u>	
> Non Real-Time Load	<u>0</u>		<u>9.2.1.x5</u>	
Information				

9.2.1.x2 Cell Capacity Class

The Cell Capability Class IE indicates the maximum cell capacity of the cell. This is defined by the operator.

IE/Group Name	Presence	<u>Range</u>	IE type and reference	Semantics description
Cell Capacity Class	M		<u>INTEGER</u> (1100)	Value 1 shall indicate the minimum capacity class, and 100 shall indicate the maximum capacity class. Capacity class should be measured on a linear scale.

9.2.1.x3 Cell Load

The Cell Load IE is the total cell load relative to the maximum planned capacity of the cell.

IE/Group Name	Presence	<u>Range</u>	IE type and reference	Semantics description
Cell Load	M		<u>INTEGER</u> (<u>0100)</u>	Value 0 shall indicate the minimum load, and 100 shall indicate the maximum load. Cell Load should be measured on a linear scale.

9.2.1.x4 Real-Time Load

The *Real-Time Load* IE indicates the ratio of the load generated by Real Time traffic relative to the measured Cell Load. Real Time traffic corresponds to the Conversational and Streaming traffic classes.

IE/Group Name	Presence	<u>Range</u>	IE type and reference	Semantics description
Real Time Load	M		<u>INTEGER</u> (0100)	Value 0 shall indicate the minimum load, and 100 shall indicate the maximum load. Real Time Load should be measured on a linear scale.

9.2.1.x5 Non Real-Time Load Information

The *Non Real-Time Load Information* IE indicates the load situation on the cell for the Non Real-Time traffic. Non Real Time traffic corresponds to the Interactive and Background traffic classes.

Γ	IE/Group Name	Presence	Range	IE type and	Semantics description
				<u>reference</u>	
	Non Real Time Load	M		ENUMERAT	
	Information			ED (Low,	
				Medium,	
				High,	
				Overloaded,	
)	

9.3.3 PDU Definitions

____ -- PDU definitions for RANAP. RANAP-PDU-Contents { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) ranap (0) version1 (1) ranap-PDU-Contents (1) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN _ _ -- IE parameter types from other modules. IMPORTS BroadcastAssistanceDataDecipheringKeys, LocationRelatedDataRequestType, DataVolumeReference, CellLoadInformation, AreaIdentity, CN-DomainIndicator, Cause, CriticalityDiagnostics, ChosenEncryptionAlgorithm, ChosenIntegrityProtectionAlgorithm, ClassmarkInformation2, ClassmarkInformation3, DL-GTP-PDU-SequenceNumber, DL-N-PDU-SequenceNumber, DataVolumeReportingIndication, DRX-CycleLengthCoefficient, EncryptionInformation, GlobalCN-ID, GlobalRNC-ID, IntegrityProtectionInformation, InterSystemInformation-TransparentContainer, IuSignallingConnectionIdentifier, IuTransportAssociation, KeyStatus, L3-Information,
LAI, NAS-PDU, NAS-SynchronisationIndicator, NewBSS-To-OldBSS-Information, NonSearchingIndication, NumberOfSteps, OMC-ID, OldBSS-ToNewBSS-Information, PagingAreaID, PagingCause, PDP-TypeInformation, PermanentNAS-UE-ID, RAB-ID, RAB-Parameters, RAC, RelocationType, RequestType, Requested-RAB-Parameter-Values, SAI, SAPI, Service-Handover, SourceID, SourceRNC-ToTargetRNC-TransparentContainer, TargetID, TargetRNC-ToSourceRNC-TransparentContainer, TemporaryUE-ID, TraceReference, TraceType, UnsuccessfullyTransmittedDataVolume, TransportLayerAddress, TriggerID, UE-ID, UL-GTP-PDU-SequenceNumber, UL-N-PDU-SequenceNumber, UP-ModeVersions, UserPlaneMode, Alt-RAB-Parameters, Ass-RAB-Parameters FROM RANAP-IEs PrivateIE-Container{},

```
ProtocolExtensionContainer{},
ProtocolIE-ContainerList{},
ProtocolIE-ContainerPair{},
ProtocolIE-ContainerPairList{},
ProtocolIE-ContainerAirList{},
RANAP-PRIVATE-IES,
RANAP-PROTOCOL-EXTENSION,
RANAP-PROTOCOL-IES,
RANAP-PROTOCOL-IES,
RANAP-PROTOCOL-IES,
FROM RANAP-Containers
```

maxNrOfDTs, maxNrOfErrors. maxNrOfIuSigConIds, maxNrOfRABs, maxNrOfVol, id-AreaIdentity, id-Alt-RAB-Parameters, id-Ass-RAB-Parameters, id-BroadcastAssistanceDataDecipheringKeys, id-LocationRelatedDataRequestType, id-CN-DomainIndicator, id-Cause. id-ChosenEncryptionAlgorithm, id-ChosenIntegrityProtectionAlgorithm, id-ClassmarkInformation2, id-ClassmarkInformation3, id-CriticalityDiagnostics, id-DRX-CycleLengthCoefficient, id-DirectTransferInformationItem-RANAP-RelocInf, id-DirectTransferInformationList-RANAP-RelocInf, id-DL-GTP-PDU-SequenceNumber, id-DownlinkCellLoadInformation, id-EncryptionInformation, id-GlobalCN-ID, id-GlobalRNC-ID, id-IntegrityProtectionInformation, id-InterSystemInformation-TransparentContainer, id-IuSiqConId, id-IuSigConIdItem, id-IuSigConIdList, id-IuTransportAssociation, id-KeyStatus, id-L3-Information, id-LAI, id-NAS-PDU, id-NewBSS-To-OldBSS-Information, id-NonSearchingIndication, id-NumberOfSteps, id-OMC-ID, id-OldBSS-ToNewBSS-Information, id-PagingAreaID, id-PagingCause, id-PermanentNAS-UE-ID, id-RAB-ContextItem, id-RAB-ContextList, id-RAB-ContextFailedtoTransferItem, id-RAB-ContextFailedtoTransferList, id-RAB-ContextItem-RANAP-RelocInf, id-RAB-ContextList-RANAP-RelocInf, id-RAB-DataForwardingItem, id-RAB-DataForwardingItem-SRNS-CtxReg, id-RAB-DataForwardingList,

id-RAB-DataForwardingList-SRNS-CtxReg, id-RAB-DataVolumeReportItem, id-RAB-DataVolumeReportList, id-RAB-DataVolumeReportRequestItem, id-RAB-DataVolumeReportRequestList, id-RAB-FailedItem, id-RAB-FailedList, id-RAB-FailedtoReportItem, id-RAB-FailedtoReportList, id-RAB-ID, id-RAB-ModifyList, id-RAB-ModifyItem, id-RAB-OueuedItem, id-RAB-QueuedList, id-RAB-ReleaseFailedList, id-RAB-ReleaseItem, id-RAB-ReleasedItem-IuRelComp, id-RAB-ReleaseList, id-RAB-ReleasedItem, id-RAB-ReleasedList, id-RAB-ReleasedList-IuRelComp, id-RAB-RelocationReleaseItem, id-RAB-RelocationReleaseList, id-RAB-SetupItem-RelocReg, id-RAB-SetupItem-RelocReqAck, id-RAB-SetupList-RelocReq, id-RAB-SetupList-RelocRegAck, id-RAB-SetupOrModifiedItem, id-RAB-SetupOrModifiedList, id-RAB-SetupOrModifyItem, id-RAB-SetupOrModifyList, id-RAC, id-RelocationType, id-RequestType, id-SAI, id-SAPI, id-SourceID, id-SourceRNC-ToTargetRNC-TransparentContainer, id-TargetID, id-TargetRNC-ToSourceRNC-TransparentContainer, id-TemporaryUE-ID, id-TraceReference, id-TraceType, id-TransportLayerAddress, id-TriggerID, id-UE-ID, id-UL-GTP-PDU-SequenceNumber, id-UplinkCellLoadInformation FROM RANAP-Constants;



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***** -- Relocation Command RelocationCommand ::= SEOUENCE { protocolIEs ProtocolIE-Container { {RelocationCommandIEs} }, protocolExtensions ProtocolExtensionContainer { {RelocationCommandExtensions} } OPTIONAL, . . . RelocationCommandIEs RANAP-PROTOCOL-IES ::= { { ID id-TargetRNC-ToSourceRNC-TransparentContainer CRITICALITY reject TYPE TargetRNC-ToSourceRNC-TransparentContainer PRESENCE optional } ID id-L3-Information CRITICALITY ignore TYPE L3-Information PRESENCE optional } | ID id-RAB-RelocationReleaseList CRITICALITY ignore TYPE RAB-RelocationReleaseList PRESENCE optional } | { ID id-RAB-DataForwardingList CRITICALITY ignore TYPE RAB-DataForwardingList PRESENCE optional } | { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RAB-RelocationReleaseList ::= RAB-IE-ContainerList { {RAB-RelocationReleaseItemIEs} } RAB-RelocationReleaseItemIEs RANAP-PROTOCOL-IES ::= { { ID id-RAB-RelocationReleaseItem CRITICALITY ignore TYPE RAB-RelocationReleaseItem PRESENCE mandatory }, . . . RAB-RelocationReleaseItem ::= SEOUENCE { rAB-ID RAB-ID, iE-Extensions ProtocolExtensionContainer { {RAB-RelocationReleaseItem-ExtIEs} } OPTIONAL, . . . RAB-RelocationReleaseItem-ExtIEs RANAP-PROTOCOL-EXTENSION ::= { . . . ::= RAB-IE-ContainerList { {RAB-DataForwardingItemIEs} } RAB-DataForwardingList RAB-DataForwardingItemIEs RANAP-PROTOCOL-IES ::= { { ID id-RAB-DataForwardingItem CRITICALITY ignore TYPE RAB-DataForwardingItem PRESENCE mandatory }, . . . RAB-DataForwardingItem ::= SEQUENCE { rAB-ID RAB-ID. transportLayerAddress TransportLayerAddress, iuTransportAssociation IuTransportAssociation, iE-Extensions ProtocolExtensionContainer { {RAB-DataForwardingItem-ExtIEs} } OPTIONAL, . . .

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RAB-DataForwardingItem-ExtIEs RANAP-PROTOCOL-EXTENSION ::= { . . . RelocationCommandExtensions RANAP-PROTOCOL-EXTENSION ::= { { ID id-InterSystemInformation-TransparentContainer CRITICALITY ignore EXTENSION InterSystemInformation-TransparentContainer PRESENCE optional }, . . . Relocation Preparation Failure RelocationPreparationFailure ::= SEQUENCE { protocolIEs ProtocolIE-Container { {RelocationPreparationFailureIEs} }, protocolExtensions ProtocolExtensionContainer { {RelocationPreparationFailureExtensions} } OPTIONAL . . . RelocationPreparationFailureIEs RANAP-PROTOCOL-IES ::= { { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE mandatory } { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RelocationPreparationFailureExtensions RANAP-PROTOCOL-EXTENSION ::= { { ID id-InterSystemInformation-TransparentContainer CRITICALITY ignore EXTENSION InterSystemInformation-TransparentContainer PRESENCE optional }, . . . <<<UNMODIFIED ASN.1>>>> -- Relocation Request Acknowledge RelocationReguestAcknowledge ::= SEQUENCE { { {RelocationRequestAcknowledgeIEs} }, protocolIEs ProtocolIE-Container ProtocolExtensionContainer { {RelocationRequestAcknowledgeExtensions} } protocolExtensions OPTIONAL, . . . RelocationRequestAcknowledgeIEs RANAP-PROTOCOL-IES ::= {

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```
{ ID id-TargetRNC-ToSourceRNC-TransparentContainer
                            CRITICALITY ignore TYPE TargetRNC-ToSourceRNC-TransparentContainer PRESENCE optional }
     ID id-RAB-SetupList-RelocRegAck
                                           CRITICALITY ignore TYPE RAB-SetupList-RelocRegAck
                                                                                                    PRESENCE optional}
     ID id-RAB-FailedList
                                       CRITICALITY ignore TYPE RAB-FailedList
                                                                                            PRESENCE optional }|
     ID id-ChosenIntegrityProtectionAlgorithm CRITICALITY ignore TYPE ChosenIntegrityProtectionAlgorithm
                                                                                                                PRESENCE optional }
     ID id-ChosenEncryptionAlgorithm
                                           CRITICALITY ignore TYPE ChosenEncryptionAlgorithm
                                                                                                    PRESENCE optional }
    { ID id-CriticalityDiagnostics
                                           CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                    PRESENCE optional },
    . . .
RAB-SetupList-RelocRegAck
                                       ::= RAB-IE-ContainerList { {RAB-SetupItem-RelocRegAck-IEs} }
RAB-SetupItem-RelocRegAck-IEs RANAP-PROTOCOL-IES ::= {
    { ID id-RAB-SetupItem-RelocRegAck
                                           CRITICALITY reject TYPE RAB-SetupItem-RelocRegAck
                                                                                                    PRESENCE mandatory },
    . . .
RAB-SetupItem-RelocReqAck ::= SEQUENCE {
   rAB-ID
                               RAB-ID,
    transportLayerAddress
                                        TransportLayerAddress OPTIONAL,
   iuTransportAssociation
                                        IuTransportAssociation OPTIONAL,
   iE-Extensions
                                    ProtocolExtensionContainer { {RAB-SetupItem-RelocReqAck-ExtIEs} }
                                                                                                             OPTIONAL,
    . . .
RAB-SetupItem-RelocRegAck-ExtIEs RANAP-PROTOCOL-EXTENSION ::= {
    {ID id-Ass-RAB-Parameters CRITICALITY ignore
                                                                                            PRESENCE optional } ,
                                                        EXTENSION Ass-RAB-Parameters
    . . .
RAB-FailedList
                                    ::= RAB-IE-ContainerList { {RAB-FailedItemIEs}
RAB-FailedItemIEs RANAP-PROTOCOL-IES ::= {
    { ID id-RAB-FailedItem
                                        CRITICALITY ignore TYPE RAB-FailedItem
                                                                                            PRESENCE mandatory },
    . . .
RAB-FailedItem ::= SEQUENCE {
   rAB-ID
                                RAB-ID,
    cause
                                Cause,
                                    ProtocolExtensionContainer { {RAB-FailedItem-ExtIEs } }
    iE-Extensions
                                                                                                 OPTIONAL,
    . . .
RAB-FailedItem-ExtIEs RANAP-PROTOCOL-EXTENSION ::= {
    . . .
RelocationRequestAcknowledgeExtensions RANAP-PROTOCOL-EXTENSION ::= {
   { ID id-NewBSS-To-OldBSS-Information CRITICALITY ignore EXTENSION NewBSS-To-OldBSS-Information PRESENCE optional
                                                                                                                                  },
    . . .
```

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_ _
-- Relocation Failure
_ _
  ******
RelocationFailure ::= SEQUENCE {
                                        { {RelocationFailureIEs} },
   protocolIEs ProtocolIE-Container
   protocolExtensions ProtocolExtensionContainer { {RelocationFailureExtensions} }
                                                                                 OPTIONAL,
   . . .
RelocationFailureIEs RANAP-PROTOCOL-IES ::= {
   { ID id-Cause CRITICALITY ignore TYPE Cause
                                                                   PRESENCE mandatory }
   { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                          PRESENCE optional },
   . . .
RelocationFailureExtensions RANAP-PROTOCOL-EXTENSION ::= {
    { ID id-NewBSS-To-OldBSS-Information CRITICALITY ignore EXTENSION NewBSS-To-OldBSS-Information PRESENCE optional },
   . . .
```

<<<<UNMODIFIED ASN.1>>>>

9.3.4 Information Element Definitions

_ _ -- Information Element Definitions _ _ RANAP-IEs { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) ranap (0) version1 (1) ranap-IEs (2) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN IMPORTS maxNrOfErrors, maxNrOfPDPDirections, maxNrOfPoints, maxNrOfRABs, maxNrOfSeparateTrafficDirections, maxRAB-Subflows, maxRAB-SubflowCombination,

maxNrOfLevels,
maxNrOfAltValues,

id-MessageStructure, id-TypeOfError

FROM RANAP-Constants

Criticality, ProcedureCode, ProtocolIE-ID, TriggeringMessage FROM RANAP-CommonDataTypes

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

-- A

```
AllocationOrRetentionPriority ::= SEQUENCE {
    priorityLevel
                            PriorityLevel,
    pre-emptionCapability
                               Pre-emptionCapability,
    pre-emptionVulnerability Pre-emptionVulnerability,
    queuingAllowed
                            QueuingAllowed,
    iE-Extensions
                            ProtocolExtensionContainer { {AllocationOrRetentionPriority-ExtIEs } } OPTIONAL,
    . . .
AllocationOrRetentionPriority-ExtIEs RANAP-PROTOCOL-EXTENSION ::= {
    . . .
Alt-RAB-Parameters ::= SEQUENCE {
    altMaxBitrateInf
                                Alt-RAB-Parameter-MaxBitrateInf
                                                                                         OPTIONAL,
    altGuaranteedBitRateInf
                                Alt-RAB-Parameter-GuaranteedBitrateInf
                                                                                         OPTIONAL,
    iE-Extensions
                           ProtocolExtensionContainer { {Alt-RAB-Parameters-ExtIEs} }
                                                                                        OPTIONAL,
    . . .
Alt-RAB-Parameters-ExtIEs RANAP-PROTOCOL-EXTENSION ::= {
    . . .
Alt-RAB-Parameter-GuaranteedBitrateInf ::= SEQUENCE {
    altGuaranteedBitrateType
                                      Alt-RAB-Parameter-GuaranteedBitrateType,
    altGuaranteedBitrates
                                        Alt-RAB-Parameter-GuaranteedBitrates
                                                                                         OPTIONAL
    -- This IE shall be present if the Type of Guaranteed Bit Rates Information IE is set to "Value range" or "Discrete values" --,
    . . .
Alt-RAB-Parameter-GuaranteedBitrateType ::= ENUMERATED{
    unspecified,
```

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```
value-range,
   discrete-values,
    . . .
Alt-RAB-Parameter-GuaranteedBitrates ::= SEOUENCE (SIZE (1..maxNrOfAltValues)) OF
   Alt-RAB-Parameter-GuaranteedBitrateList
Alt-RAB-Parameter-GuaranteedBitrateList ::= SEQUENCE (SIZE (1..maxNrOfSeparateTrafficDirections)) OF GuaranteedBitrate
Alt-RAB-Parameter-MaxBitrateInf ::= SEQUENCE {
   altMaxBitrateType
                               Alt-RAB-Parameter-MaxBitrateType,
                                Alt-RAB-Parameter-MaxBitrates
                                                                         OPTIONAL
   altMaxBitrates
   -- This IE shall be present if the Type of Alternative Maximun Bit Rates Information IE is set to "Value range" or "Discrete values" --,
    . . .
Alt-RAB-Parameter-MaxBitrateType ::= ENUMERATED{
   unspecified,
   value-range,
   discrete-values,
    . . .
Alt-RAB-Parameter-MaxBitrates ::= SEOUENCE (SIZE (1..maxNrOfAltValues)) OF
   Alt-RAB-Parameter-MaxBitrateList
Alt-RAB-Parameter-MaxBitrateList ::= SEQUENCE (SIZE (1..maxNrOfSeparateTrafficDirections)) OF MaxBitrate
AreaIdentity ::= CHOICE {
   sAI
                    SAI,
   geographicalArea
                            GeographicalArea,
    . . .
Ass-RAB-Parameters ::= SEQUENCE {
   assMaxBitrateInf
                                Ass-RAB-Parameter-MaxBitrateList
                                                                                         OPTIONAL,
   assGuaranteedBitRateInf
                                Ass-RAB-Parameter-GuaranteedBitrateList
                                                                                         OPTIONAL,
   iE-Extensions
                           ProtocolExtensionContainer { {Ass-RAB-Parameters-Extles} } OPTIONAL,
    . . .
Ass-RAB-Parameters-ExtIEs RANAP-PROTOCOL-EXTENSION ::= {
    . . .
```

Ass-RAB-Parameter-GuaranteedBitrateList ::= SEQUENCE (SIZE (1..maxNrOfSeparateTrafficDirections)) OF GuaranteedBitrate

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Ass-RAB-Parameter-MaxBitrateList ::= SEQUENCE (SIZE (1..maxNrOfSeparateTrafficDirections)) OF MaxBitrate

-- B

```
BindingID
                        ::= OCTET STRING (SIZE (4))
BroadcastAssistanceDataDecipheringKeys ::= SEQUENCE {
    cipheringKeyFlag
                            BIT STRING (SIZE (1)),
    currentDecipheringKey BIT STRING (SIZE (56)),
    nextDecipheringKey
                            BIT STRING (SIZE (56)),
    . . .
-- C
Cause ::= CHOICE {
    radioNetwork
                            CauseRadioNetwork,
    transmissionNetwork
                            CauseTransmissionNetwork,
    nAS
                    CauseNAS,
                        CauseProtocol,
    protocol
    misc
                        CauseMisc,
    non-Standard
                            CauseNon-Standard,
    . . .
CauseMisc ::= INTEGER {
    om-intervention (113),
    no-resource-available (114),
    unspecified-failure (115),
    network-optimisation (116)
\{(113..128)
CauseNAS ::= INTEGER {
    user-restriction-start-indication (81),
    user-restriction-end-indication (82),
    normal-release (83)
} (81..96)
CauseProtocol ::= INTEGER
    transfer-syntax-error (97),
    semantic-error (98),
    message-not-compatible-with-receiver-state (99),
    abstract-syntax-error-reject (100),
    abstract-syntax-error-ignore-and-notify (101),
    abstract-syntax-error-falsely-constructed-message (102)
\{ (97..112) \}
CauseRadioNetwork ::= INTEGER {
    rab-pre-empted (1),
```

trelocoverall-expiry (2), trelocprep-expiry (3), treloccomplete-expiry (4), tqueing-expiry (5), relocation-triggered (6), trellocalloc-expirv(7), unable-to-establish-during-relocation (8), unknown-target-rnc (9), relocation-cancelled (10), successful-relocation (11), requested-ciphering-and-or-integrity-protection-algorithms-not-supported (12), change-of-ciphering-and-or-integrity-protection-is-not-supported (13), failure-in-the-radio-interface-procedure (14), release-due-to-utran-generated-reason (15), user-inactivity (16), time-critical-relocation (17), requested-traffic-class-not-available (18), invalid-rab-parameters-value (19), requested-maximum-bit-rate-not-available (20), requested-guaranteed-bit-rate-not-available (21), requested-transfer-delay-not-achievable (22), invalid-rab-parameters-combination (23), condition-violation-for-sdu-parameters (24), condition-violation-for-traffic-handling-priority (25), condition-violation-for-quaranteed-bit-rate (26), user-plane-versions-not-supported (27), iu-up-failure (28), relocation-failure-in-target-CN-RNC-or-target-system(29), invalid-RAB-ID (30), no-remaining-rab (31), interaction-with-other-procedure (32), requested-maximum-bit-rate-for-dl-not-available (33), requested-maximum-bit-rate-for-ul-not-available (34), requested-quaranteed-bit-rate-for-dl-not-available (35), requested-quaranteed-bit-rate-for-ul-not-available (36), repeated-integrity-checking-failure (37), requested-request-type-not-supported (38), request-superseded (39), release-due-to-UE-generated-signalling-connection-release (40), resource-optimisation-relocation (41), requested-information-not-available (42), relocation-desirable-for-radio-reasons (43), relocation-not-supported-in-target-RNC-or-target-system (44), directed-retry (45), radio-connection-with-UE-Lost (46), rNC-unable-to-establish-all-RFCs (47), deciphering-keys-not-available(48), dedicated-assistance-data-not-available(49), relocation-target-not-allowed (50), reduce-load-in-serving-cell (y1), no-radio-resources-available-in-target-cell (y2) $\{(1..64)\}$

Error! No text of specified style in document. CauseNon-Standard ::= INTEGER (129..256)

```
CauseTransmissionNetwork ::= INTEGER {
    signalling-transport-resource-failure (65),
    iu-transport-connection-failed-to-establish (66)
} (65..80)
CellCapacityClass ::= INTEGER (1..100)
CellLoad
            ::= INTEGER (0..100)
CellLoadInformation ::= SEQUENCE {
    cellCapacityClass
                                CellCapacityClass,
    cellLoad
                                CellLoad,
   realTimeLoad
                                RealTimeLoad
                                                                     OPTIONAL,
                                NonRealTimeLoadInformation
    nonRealTimeLoadInformation
                                                                     OPTIONAL,
    iE-Extensions
                                 ProtocolExtensionContainer {
                                                               CellLoadInformation-ExtIEs } }
                                                                                                    OPTIONAL,
   . . .
CellLoadInformation-ExtIEs RANAP-PROTOCOL-EXTENSION ::= {
    . . .
ClientType ::= ENUMERATED {
    emergency-Services,
    value-Added-Services,
    pLMN-Operator-Services,
    lawful-Intercept-Services,
. . .
CriticalityDiagnostics ::= SEQUENCE {
    procedureCode
                            ProcedureCode
                                                     OPTIONAL,
    triggeringMessage
                            TriggeringMessage
                                                     OPTIONAL,
    procedureCriticality
                                Criticality
                                                     OPTIONAL,
    iEsCriticalityDiagnostics
                                    CriticalityDiagnostics-IE-List OPTIONAL,
                            ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
CriticalityDiagnostics-ExtIEs RANAP-PROTOCOL-EXTENSION ::= {
    . . .
CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
    SEOUENCE {
        iECriticality
                            Criticality,
        iE-ID
                            ProtocolIE-ID,
        repetitionNumber
                                RepetitionNumber0
                                                         OPTIONAL,
                                ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} } OPTIONAL,
        iE-Extensions
        . . .
```

```
CriticalityDiagnostics-IE-List-ExtIEs RANAP-PROTOCOL-EXTENSION ::= {
        ID id-MessageStructure CRITICALITY ignore
                                                        EXTENSION MessageStructure PRESENCE optional
        ID id-TypeOfError
                                CRITICALITY ignore
                                                        EXTENSION TypeOfError
                                                                                    PRESENCE mandatory },
    . . .
MessageStructure ::= SEQUENCE (SIZE (1..maxNrOfLevels)) OF
    SEQUENCE {
        iE-ID
                                ProtocolIE-ID,
        repetitionNumber
                                RepetitionNumber1
                                                        OPTIONAL,
                                ProtocolExtensionContainer { {MessageStructure-ExtIEs} } OPTIONAL,
        iE-Extensions
        . . .
    }
MessageStructure-ExtIEs RANAP-PROTOCOL-EXTENSION ::= {
    . . .
CGI ::= SEQUENCE {
   pLMNidentity
                                PLMNidentity,
    lac
                    LAC,
    сI
                    CI,
                            ProtocolExtensionContainer { {CGI-ExtIEs} } OPTIONAL
    iE-Extensions
CGI-ExtIEs RANAP-PROTOCOL-EXTENSION ::= {
    . . .
ChosenEncryptionAlgorithm
                               ::= EncryptionAlgorithm
ChosenIntegrityProtectionAlgorithm ::= IntegrityProtectionAlgorithm
CI
                   ::= OCTET STRING (SIZE (2))
ClassmarkInformation2
                               ::= OCTET STRING
ClassmarkInformation3
                               ::= OCTET STRING
CN-DomainIndicator ::= ENUMERATED {
    cs-domain,
    ps-domain
CN-ID
                   ::= INTEGER (0..4095)
-- D
DataVolumeReference
                           ::= INTEGER (0..255)
```

```
DataVolumeReportingIndication ::= ENUMERATED {
    do-report,
    do-not-report
DCH-ID ::= INTEGER (0..255)
DeliveryOfErroneousSDU ::= ENUMERATED {
    yes,
    no,
    no-error-detection-consideration
DeliveryOrder::= ENUMERATED {
    delivery-order-requested,
    delivery-order-not-requested
DL-GTP-PDU-SequenceNumber
                                ::= INTEGER (0..65535)
-- Reference: xx.xxx
DL-N-PDU-SequenceNumber
                                ::= INTEGER (0..65535)
-- Reference: xx.xxx
D-RNTI
                        ::= INTEGER (0..1048575)
DRX-CycleLengthCoefficient
                                    ::= INTEGER (6..9)
DSCH-ID ::= INTEGER (0..255)
```

<<<<UNMODIFIED ASN.1>>>>

```
-- I
```

```
IMEI
                        ::= OCTET STRING (SIZE (8))
-- Reference: 23.003
IMSI
                        ::= TBCD-STRING (SIZE (3..8))
-- Reference: 23.003
IntegrityProtectionAlgorithm
                                    ::= INTEGER {
   standard-UMTS-integrity-algorithm-UIA1 (0),
   no-value (15)
\{ (0..15) \}
IntegrityProtectionInformation ::= SEQUENCE {
   permittedAlgorithms
                            PermittedIntegrityProtectionAlgorithms,
   key
                    IntegrityProtectionKey,
                            ProtocolExtensionContainer { {IntegrityProtectionInformation-ExtIEs} } OPTIONAL
   iE-Extensions
```

```
IntegrityProtectionInformation-ExtIEs RANAP-PROTOCOL-EXTENSION ::= {
    . . .
l
IntegrityProtectionKey
                            ::= BIT STRING (SIZE (128))
InterSystemInformation-TransparentContainer ::= SEQUENCE {
                                       CellLoadInformation
   downlinkCellLoadInformation
                                                              OPTIONAL,
   uplinkCellLoadInformation
                                       CellLoadInformation
                                                              OPTIONAL,
   iE-Extensions
                           ProtocolExtensionContainer { { InterSystemInformation-TransparentContainer-ExtIEs } } OPTIONAL,
   . . .
}
InterSystemInformation-TransparentContainer-ExtIEs RANAP-PROTOCOL-EXTENSION ::= {
. . .
}
IuSignallingConnectionIdentifier := BIT STRING (SIZE (24))
IuTransportAssociation ::= CHOICE {
   qTP-TEI
                       GTP-TEI,
   bindingID
                       BindingID,
    . . .
<<<<UNMODIFIED ASN.1>>>>
-- N
NAS-PDU
                       ::= OCTET STRING
NAS-SynchronisationIndicator := BIT STRING (SIZE (4))
NewBSS-To-OldBSS-Information
                                   ::= OCTET STRING
NonRealTimeLoadInformation ::= ENUMERATED {
   low,
   medium,
   high,
   overloaded,
   . . .
}
NonSearchingIndication ::= ENUMERATED {
   non-searching,
   searching
NumberOfIuInstances
                          ::= INTEGER (1..2)
```

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```
NumberOfSteps
                           ::= INTEGER (1..16)
<<<<UNMODIFIED ASN.1>>>>
-- R
RAB-AsymmetryIndicator::= ENUMERATED {
    symmetric-bidirectional,
    asymmetric-unidirectional-downlink,
   asymmetric-unidirectional-uplink,
   asymmetric-bidirectional,
    . . .
RAB-ID
                       ::= BIT STRING (SIZE (8))
RAB-Parameter-GuaranteedBitrateList ::= SEOUENCE (SIZE (1..maxNrOfSeparateTrafficDirections)) OF GuaranteedBitrate
RAB-Parameter-MaxBitrateList
                                   ::= SEQUENCE (SIZE (1..maxNrOfSeparateTrafficDirections)) OF MaxBitrate
RAB-Parameters ::= SEOUENCE {
    trafficClass
                           TrafficClass,
   rAB-AsymmetryIndicator
                                   RAB-AsymmetryIndicator,
   maxBitrate
                       RAB-Parameter-MaxBitrateList,
                           RAB-Parameter-GuaranteedBitrateList OPTIONAL
   quaranteedBitRate
    -- This IE shall be present the traffic class IE is set to "Conversational" or "Streaming" --,
   deliveryOrder
                           DeliveryOrder,
   maxSDU-Size
                       MaxSDU-Size,
    sDU-Parameters
                           SDU-Parameters,
    transferDelav
                           TransferDelay OPTIONAL
    -- This IE shall be present the traffic class IE is set to "Conversational" or "Streaming" --,
    trafficHandlingPriority
                             TrafficHandlingPriority OPTIONAL
    -- This IE shall be present the traffic class IE is set to "Interactive" --,
    allocationOrRetentionPriority AllocationOrRetentionPriority OPTIONAL,
    sourceStatisticsDescriptor SourceStatisticsDescriptor OPTIONAL
    -- This IE shall be present the traffic class IE is set to "Conversational" or "Streaming" --,
   relocationRequirement RelocationRequirement OPTIONAL,
    iE-Extensions
                           ProtocolExtensionContainer { {RAB-Parameters-ExtIEs} } OPTIONAL,
RAB-Parameters-ExtIEs RANAP-PROTOCOL-EXTENSION ::= {
    . . .
RAB-SubflowCombinationBitRate ::= INTEGER (0..1600000)
RAB-TrCH-Mapping ::=
                       SEQUENCE ( SIZE (1..maxNrOfRABs)) OF
   RAB-TrCH-MappingItem
RAB-TrCH-MappingItem ::= SEQUENCE {
   rAB-ID
                   RAB-ID,
```

```
trCH-ID-List TrCH-ID-List,
    . . .
RAC
                   ::= OCTET STRING (SIZE (1))
RAI ::= SEQUENCE {
   lai
                   LAI,
   rAC
                   RAC,
                           ProtocolExtensionContainer { {RAI-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
ļ
RAI-EXTIES RANAP-PROTOCOL-EXTENSION ::= {
    . . .
RateControlAllowed ::= ENUMERATED {
   not-allowed,
    allowed
RealTimeLoad ::= INTEGER (0..100)
RelocationRequirement ::= ENUMERATED {
   lossless,
    none,
    ...,
    realtime
RelocationType ::= ENUMERATED {
   ue-not-involved,
   ue-involved,
    . . .
RepetitionNumber0 ::= INTEGER (0..255)
RepetitionNumber1 ::= INTEGER (1..256)
ReportArea ::= ENUMERATED {
    service-area,
    geographical-area,
    . . .
<<<<UNMODIFIED ASN.1>>>>
```

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```
SourceRNC-ToTargetRNC-TransparentContainer ::= SEQUENCE {
   rRC-Container
                           RRC-Container.
    numberOfIuInstances
                           NumberOfIuInstances.
   relocationType
                           RelocationType,
    chosenIntegrityProtectionAlgorithm ChosenIntegrityProtectionAlgorithm OPTIONAL,
    integrityProtectionKey
                               IntegrityProtectionKey
                                                               OPTIONAL,
    chosenEncryptionAlgorithForSignalling ChosenEncryptionAlgorithm
                                                                       OPTIONAL,
    cipheringKev
                           EncryptionKey
                                                       OPTIONAL,
    chosenEncryptionAlgorithForCS ChosenEncryptionAlgorithm
                                                                   OPTIONAL,
    chosenEncryptionAlgorithForPS
                                   ChosenEncryptionAlgorithm
                                                                   OPTIONAL,
   d-RNTI
                       D-RNTI
                                               OPTIONAL
    -- This IE shall be present if the Relocation type IE is set to "UE not involved in relocation of SRNS" --,
    targetCellId
                           TargetCellId
                                                       OPTIONAL
    -- This IE shall be present if the Relocation type IE is set to "UE involved in relocation of SRNS" --,
    rAB-TrCH-Mapping
                               RAB-TrCH-Mapping
                                                               OPTIONAL,
    iE-Extensions
                           ProtocolExtensionContainer { {SourceRNC-ToTargetRNC-TransparentContainer-ExtIEs} } OPTIONAL,
    . . .
SourceRNC-ToTargetRNC-TransparentContainer-ExtIEs RANAP-PROTOCOL-EXTENSION ::= {
    {ID id-DownlinkCellLoadInformation CRITICALITY ignore
                                                               EXTENSION CellLoadInformation
                                                                                                 PRESENCE optional } |
    ID id-UplinkCellLoadInformation CRITICALITY ignore
                                                               EXTENSION CellLoadInformation
                                                                                                 PRESENCE optional },
   . . .
SourceStatisticsDescriptor ::= ENUMERATED {
    speech,
   unknown,
    . . .
SubflowSDU-Size
                           ::= INTEGER (0..4095)
-- Unit is bit
<<<<UNMODIFIED ASN.1>>>>
```

9.3.6 Constant Definitions

BEGIN	
********************************	* * * * * * * * * * * * * * * * * * * *
Elementary Procedures	
**********************************	* * * * * * * * * * * * * * * * * * * *
id-RAB-Assignment	INTEGER ::= 0
id-Iu-Release	INTEGER ::= 1
id-RelocationPreparation	INTEGER ::= 2
id-RelocationResourceAllocation	INTEGER ::= 3
id-RelocationCancel	INTEGER ::= 4
id-SRNS-ContextTransfer	INTEGER ::= 5
id-SecurityModeControl	INTEGER ::= 6
id-DataVolumeReport	TNTEGER := 7
id-Reset	INTEGER : = 9
id-RAB-ReleaseRequest	INTEGER $::= 10$
id-Iu-ReleaseRequest	INTEGER ::= 11
id-RelocationDetect	INTEGER ::= 12
id-RelocationComplete	INTEGER ::= 13
id-Paging	INTEGER ::= 14
id-CommonID	INTEGER ::= 15
id-CN-InvokeTrace	INTEGER ::= 16
id-LocationReportingControl	INTEGER ::= 17
id-LocationReport	INTEGER ::= 18
id-InitialUE-Message	INTEGER ::= 19
id-DirectTransfer	INTEGER ::= 20
id-OverloadControl	INTEGER ::= 21
id-ErrorIndication	INTEGER ::= 22
id-SRNS-DataForward	INTEGER ::= 23
id-ForwardSRNS-Context	INTEGER ::= 24
id-privateMessage	INTEGER ::= 25
id-CN-DeactivateTrace	INTEGER ::= 26
id-ResetResource	INTEGER $::= 27$
id-RANAP-Relocation	INTEGER ::= 28
id-RAB-ModifyRequest	INTEGER ::= 29
id-LocationRelatedData	INTEGER ::= 30
******************************	* * * * * * * * * * * * * * * * * * * *
Extension constants	
************************************	* * * * * * * * * * * * * * * * * * * *
maxPrivateIEs	INTEGER ::= 65535
maxProtocolExtensions	INTEGER ::= 65535
maxProtocolIEs	INTEGER ::= 65535
*********************************	*****

-- Lists

************************************	* * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
maxNrOfDTs	INTEGER ::	= 15
maxNrOfErrors	INTEGER ::	= 256
maxNrOfLuSigConIds	INTEGER ::	= 250
maxNrOfDDDDirections	INTEGER ::	= 250
maxNrOfDoints	INTEGER ::	= 15
maxNrOfRABs	INTEGER ::	= 256
maxNrOfSeparateTrafficDirections	INTEGER ::	= 250
maxNrOfVol	INTEGER ::	= 2
maxNrOfLevels	INTEGER ::	= 256
maxNrOfAltValues	INTEGER ::	= 16
	INTEGEN	10
maxRAB-Subflows	INTEGER ::	= 7
maxRAB-SubflowCombination	INTEGER ::	= 64
	111120210	01
*********	*******	*****
IEs		
***************************	* * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
id-AreaIdentity		INTEGER ::= 0
id-CN-DomainIndicator		INTEGER ::= 3
id-Cause		INTEGER ::= 4
id-ChosenEncryptionAlgorithm	_	INTEGER ::= 5
id-ChosenIntegrityProtectionAlgorit	hm	INTEGER ::= 6
id-ClassmarkInformation2		INTEGER ::= 7
id-ClassmarkInformation3		INTEGER ::= 8
id-CriticalityDiagnostics		INTEGER ::= 9
id-DL-GTP-PDU-SequenceNumber		INTEGER ::= 10
id-EncryptionInformation		INTEGER ::= 11
id-IntegrityProtectionInformation		INTEGER ::= 12
id-IuTransportAssociation		INTEGER ::= 13
id-L3-Information		INTEGER ::= 14
id-LAI		INTEGER ::= 15
id-NAS-PDU		INTEGER ::= 16
id-NonSearchingIndication		INTEGER ::= 17
id-NumberOfSteps		INTEGER ::= 18
id-OMC-ID		INTEGER ::= 19
id-OldBSS-ToNewBSS-Information		INTEGER ::= 20
id-PagingAreaID		INTEGER ::= 21
id-PagingCause		INTEGER ::= 22
id-PermanentNAS-UE-ID		INTEGER ::= 23
id-RAB-ContextItem		INTEGER ::= 24
id-RAB-ContextList		INTEGER ::= 25
id-RAB-DataForwardingItem		INTEGER ::= 26
id-RAB-DataForwardingItem-SRNS-CtxR	eq	INTEGER ::= 27
id-RAB-DataForwardingList		INTEGER ::= 28
id-RAB-DataForwardingList-SRNS-CtxR	eq	INTEGER ::= 29
id-RAB-DataVolumeReportItem		INTEGER ::= 30

id-RAB-DataVolumeReportList	INTEGER ::= 31
id-RAB-DataVolumeReportRequestItem	INTEGER ::= 32
id-RAB-DataVolumeReportRequestList	INTEGER ::= 33
id-RAB-FailedItem	INTEGER ::= 34
id-RAB-FailedList	INTEGER ::= 35
id-RAB-ID	INTEGER ::= 36
id-RAB-OueuedItem	INTEGER ::= 37
id-RAB-OueuedList	INTEGER ::= 38
id-RAB-ReleaseFailedList	INTEGER ::= 39
id-RAB-ReleaseItem	INTEGER ::= 40
id-RAB-ReleaseList	INTEGER ::= 41
id-RAB-ReleasedItem	INTEGER ::= 42
id-RAB-ReleasedList	INTEGER ::= 43
id-RAB-ReleasedList-IuRelComp	INTEGER ::= 44
id-RAB-RelocationReleaseItem	INTEGER ::= 45
id-RAB-RelocationReleaseList	INTEGER ::= 46
id-RAB-SetupItem-RelocReg	INTEGER ::= 47
id-RAB-SetupItem-RelocRegAck	INTEGER ::= 48
id-RAB-SetupList-RelocReg	INTEGER ::= 49
id-RAB-SetupList-RelocRegAck	INTEGER ::= 50
id-RAB-SetupOrModifiedItem	INTEGER ::= 51
id-RAB-SetupOrModifiedList	INTEGER ::= 52
id-RAB-SetupOrModifyItem	INTEGER ::= 53
id-RAB-SetupOrModifyList	INTEGER ::= 54
id-PAC	INTEGER ··- 55
id-PelocationType	INTEGER ··- 55
id-RequestType	INTEGER ··- 57
id-SAT	INTEGER ::= 58
id-SADT	INTEGER ::= 50
id-SourceID	INTEGER ::= 60
id-SourceRNC-ToTargetRNC-TransparentContainer	INTEGER ::= 61
id-TargetID	INTEGER ··- 62
id-TargetPNC-ToSourcePNC-TransparentContainer	INTEGER ··- 63
id-TemporaryIIF-ID	INTEGER ::= 64
id-TraceReference	INTEGER ::= 65
id-TraceType	INTEGER ··- 66
id-TransportLaverAddress	INTEGER ··- 67
id-TriggerID	INTEGER ··- 68
	INTEGER ··- 60
id-III - CTD-DDII-SocuenceNumber	INTEGER ··- 09
id_BAR_FailedteReportItem	INTEGER ··- 70
id DAD EpilodtoDeportList	INTEGER ··- 71
id Kowstatua	INTEGER ··= 72
id DDV GurleI en ethQaofficient	INTEGER ··= 75
id Tußingentalist	INTEGER ··= 76
id TußinGentätten	INTEGER ··= //
id JuGinGenId	INTEGER ··= 78
id Diverture for the Diverture Division Delectre	INTEGER ··= /9
id DiverturensierInformationList DNND PelerInf	INTEGER ··= 80
id_DAR_ContextItem_DANAD_Releatef	INTEGER ··= 81
id_PAP_ContextIidt_PANAP_Relocint	INIAGER ··= 82
id_PAP_ContextIntic_RAMAP_Reformation	INIAGER ··= 03
id DDD ContextFalledtofransferitem	INIEGER ··= 84
IU-KAB-CONTEXTFAILEDTOTTANSIETLIST	TNIEGER ::= 85

id-GlobalRNC-ID	INTEGER	::=	86	
id-RAB-ReleasedItem-IuRelComp	INTEGER	::=	87	
id-MessageStructure	INTEGER	::=	88	
id-Alt-RAB-Parameters	INTEGER	::=	89	
id-Ass-RAB-Parameters	INTEGER	::=	90	
id-RAB-ModifyList	INTEGER	::=	91	
id-RAB-ModifyItem	INTEGER	::=	92	
id-TypeOfError	INTEGER	::=	93	
id-BroadcastAssistanceDataDecipheringKeys	INTEGER	::=	94	
id-LocationRelatedDataRequestType	INTEGER	::=	95	
id-GlobalCN-ID	INTEGER	::=	96	
id-InterSystemInformation-TransparentContainer	INTEGER	::=	ww	
id-NewBSS-To-OldBSS-Information	INTE	GER	::=	xx
id-DownlinkCellLoadInformation	INTE	GER	::=	уу
id-UplinkCellLoadInformation	INTE	GER	::=	ZZ

END

3GPP TSG-RAN3 Meeting #27 Orlando, Florida, USA, 18th – 22nd February 2002

			CHAN	GE REQ	UEST			CR-Form-v5
	ж	25.423	CR <mark>433</mark>	ж rev	4 [#]	Current vers	^{ion:} 4.3.0	Ħ
	For <u>HELP</u> on u	sing this for	n, see bottom o	f this page or	look at the	e pop-up text	over the # sy	mbols.
	Proposed change a	affects: Ж	(U)SIM	ME/UE	Radio Ac	cess Network	Core N	etwork
	Title: ೫	Power Bal procedure	ancing Activatio s in RNSAP	on with Radio	Link Setup	and Radio L	ink Addition	
I	Source: ೫	NECR-WC	<u>33</u>					
	Work item code: Ж	TEI				Date:	2002-Februa	ary
	Category: ⊮	C Use <u>one</u> of the F (corred A (corred B (add) C (function D (edited Detailed exp be found in 3	he following categ ection) esponds to a corr ition of feature), stional modification orial modification) lanations of the al 3GPP <u>TR 21.900</u> .	ories: ection in an ea n of feature) bove categorie:	rlier release s can	Release: % Use <u>one</u> of 2 (e) R96 R97 R98 R99 REL-4 REL-5	REL5 the following ref (GSM Phase 2, (Release 1996, (Release 1997, (Release 1998, (Release 1999, (Release 4) (Release 5)	leases:))))
	Reason for change: # When adding new RL to an active set of a particular UE and power balancing is already activated in existing RL, the power of new RL may diverge in the duration between the timing of activation of inner loop power control for new RL and the timing of activation of Power Balancing for new RL. As a result, new RL may be lost or interference in the cell where new RL is established may increase.					ancing is e duration and the may be e.		
	Summary of chang	je: # <u>Rev. 4</u>						
		Identifi	ers were allocat	ted.				
		- It v Re SE	was clarified tha equest message TUP/ADDITION the description ab	t power balan if "activation N REQUEST i pout Initial DL	cing is act of power b nessage" TX power	ivated by RL balancing by t is supported in RL Additio	Setup/Additio the RADIO LIN (highlighted in on procedure v	n NK i yellow). vas
		Rev. 2				p procoduro ((inginighted in	5100).
		The de (highlig	escription about ghted in light blu	Initial DL TX ie).	oower was	aligned with	the latest spe	cification
		Rev. 1						
		- Th	e following clari	fications were	made.			
		~	Initial DL TX Information I message if th	power will sta E is included his functionali	irt to vary v in the RAE ty is suppo	when the <i>DL</i> DIO LINK SET orted by the D	Power Baland TUP REQUES DRNS.	sing ST
		>	Power Balan	cing IEs shall	be used v	when activatir	ng the power b	alancing.
		Å	When the DL start at the sa in the RADIC power level of	transmission ame CFN, the LINK SETUI on each DL ch	and the a initial DL REQUES annelisati	ectivation of th transmission ST message on code of a	ne power bala power level s or the decided RL should be	ncing pecified I DL TX used as

	an initial power of the power balancing.					
	If the Power Balancing has been started as "Common", a common reference power shall be used in all the current and future RL(s).					
	- DL Power Balancing Support Indicator was renamed to DL Power Balancing Activation Indicator and the presence of this IE was changed from mandatory to optional. This IE indicates that the power balancing is activated in the RL. This IE was also added to the RADIO LINK ADDITION RESPONSE and RADIO LINK SETUP/ADDITION FAILURE.					
	- The text for DL Power Balancing Activation Indicator was added.					
	- In the RADIO LINK ADDITION REQUEST message, the <i>DL Reference Pow</i> Information IE was deleted. Instead, the <i>DL Reference Power</i> IE was added the <i>RL Information</i> IE.					
	 In the RL Addition procedure, abnormal conditions were added and new case value was also introduced. 					
	- ASN.1 was modified accordingly.					
	<u>Rev. 0</u>					
	Power Balancing IEs are added to RADIO LINK SETUP/ADDITION REQUEST messages and RADIO LINK SETUP/ADDITION REQUEST messages can be trigger of initiating power balancing.					
Consequences if # not approved:	If this CR is not approved, DL power of the additional RL might diverge. As a result, the additional RL may be lost or interference in the cell where new RL is established will increase.					
	Impact Analysis:					
	Impact assessment towards the previous version of the specification (same release):					
	No previous version.					
	Compatibility Analysis towards previous release:					
	No impact.					
Clauses affected: #	8312 8322 8323 8324 9131 9141 9151 9161 9171 9181					
	9.2.1.5, 9.2.2.x, 9.3.3, 9.3.4 and 9.3.6					
Other specs # affected:	X Other core specifications Test specifications CR496 on TS 25.433 V4.2.1 (REL-4)					
	U&M Specifications					

How to create CRs using this form:

ж

Other comments:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G_Specs/CRs.htm</u>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.3.1 Radio Link Setup

8.3.1.1 General

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

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

8.3.1.2 Successful Operation



Figure 5: Radio Link Setup procedure: Successful Operation

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

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

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

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

Transport Channels Handling:

DCH(s):

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

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

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

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

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

The *Frame Handling Priority* IE defines the priority level that should be used by the DRNS to prioritise between different frames of the data frames of the DCHs in the downlink on the radio interface in congestion situations once the new RL(s) have been activated.

If the *DCH Specific Info* IE in the *DCH Information* IE includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:

- If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.
- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the downlink of the DCH.

DSCH(s):

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

[TDD - USCH(s)]:

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

Physical Channels Handling:

[FDD - Compressed Mode]:

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern* Sequence Information IE and the Active Pattern Sequence Information IE, the DRNS shall use the information to activate the indicated Transmission Gap Pattern Sequences(s) in the new RL. The received *CM Configuration Change CFN* IE refers to latest passed CFN with that value. The DRNS shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the DRNS shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the DRNS shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]

- [FDD - For all other Transmission Gap Pattern Sequences included in the *Active Pattern Sequence Information* IE, the DRNS shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE for the Transmission Gap Pattern Sequence.] [FDD- If the *Downlink Compressed Mode Method* IE in one or more Transmission Gap Pattern Sequence is set to 'SF/2' in the RADIO LINK SETUP REQUEST message, the DRNS shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the RADIO LINK SETUP RESPONSE message indicating for each DL Channelisation Code whether the alternative scrambling code shall be used or not.]

[FDD - DL Code Information]:

[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*".]

General:

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

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

Radio Link Handling:

Diversity Combination Control:

[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 *Diversity Control Field* IE is set to "Must", the DRNS shall not combine the RL with any other existing RL.]

[FDD - In the case of combining one or more RLs the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message with the *Diversity Indication* IE that the RL is combined with another RL RL for all RLs but the first 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 not be included for the first of the combined RLs, for which the *Transport Layer Address* IE and the *Binding ID* IE shall be included.]

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

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

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

[FDD-Transmit Diversity]:

[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.]

[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 Indicator* IE].

DL Power Control:

[FDD - If both the *Initial DL TX Power* IE and *Uplink SIR Target* IE are included 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 constrains 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. The DRNS shall not transmit with a higher power than indicated by the *Maximum DL TX Power IE* or lower than indicated by the *Minimum DL TX Power IE* on any DL DPCH of the RL except during compressed mode, when the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

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

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

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

[FDD – 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 on the Uu interface for the concerning RLS or Power Balancing is activated. No inner loop 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) and the power control procedure (see 8.3.<u>15</u>7).]

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

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

[FDD - If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the DRNC shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the life time of the RL. If the *DPC Mode* IE is not present in the RADIO LINK SETUP REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *DL Power Balancing Information* IE and the *Power Adjustment Type* IE is set to "Common" or "Individual", the DRNS shall activate the power balancing, if activation of power balancing by the RADIO LINK SETUP REQUEST message is supported, according to subclause 8.3.15, using the *DL Power Balancing Information* IE. If the DRNS starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing shall be set to the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code of a RL.]

[FDD – If activation of power balancing by the RADIO LINK SETUP REQUEST message is supported by the DRNS, the DRNC shall include the *DL Power Balancing Activation Indicator* IE in the *RL Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

Neighbouring Cell Handling:

If there are UMTS neighbouring cell(s) to the cell in which a Radio Link was established then:

- The DRNC shall include the *Neighbouring FDD Cell Information* IE and/or *Neighbouring TDD Cell Information* IE in the *Neighbouring UMTS Cell Information* IE for each neighbouring FDD cell and/or TDD cell respectively. In addition, if the information is available, the DRNC shall include the *Frame Offset* IE, *Primary CPICH Power* IE, *Cell Individual Offset* IE, *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE and Closed Loop Mode2 Support Indicator IE in the *Neighbouring FDD Cell Information* IE, and the *Frame Offset* IE, *Cell Individual Offset* IE, *DPCH Constant Value* IE and the *PCCPCH Power* IE in the *Neighbouring TDD Cell Information* IE.
- If a UMTS neighbouring cell is not controlled by the same DRNC, the DRNC shall also include the *CN PS Domain Identifier* IE and/or *CN CS Domain Identifier* IE which are the identifiers of the CN nodes connected to the RNC controlling the UMTS neighbouring cell.

FDD - The DRNC shall include the *DPC Mode Change Support Indicator* IE if the DRNC is aware that the neighbouring cell supports DPC mode change.]

For the UMTS neighbouring cells which are controlled by the DRNC, the DRNC shall report in the RADIO LINK SETUP RESPONSE message the restriction state of those cells, otherwise *Restriction state indicator* IE may be absent. The DRNC shall include the *Restriction state indicator* IE for the neighbouring cells which are controlled by the DRNC in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.

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

General:

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity for EDSCHPC IE, the DRNS shall activate enhanced DSCH power control, if supported, using the SSDT Cell Identity for EDSCHPC IE and SSDT Cell Identity Length IE as well as Enhanced DSCH PC IE in accordance with ref. [10] subclause 5.2.2. If the RADIO LINK SETUP REQUEST message includes both SSDT Cell Identity IE and SSDT Cell Identity for EDSCHPC IE, then the DRNS shall ignore the SSDT Cell Identity for EDSCHPC IE.]

[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 DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link established in a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK SETUP RESPONSE message.]

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

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

[TDD – If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include the *UARFCN* IE, the *Cell Parameter ID* IE,[3.84Mcps TDD - the *Sync Case* IE, the *SCH Time Slot* IE,] the *SCTD Indicator* IE, and the *PCCPCH Power* IE in the RADIO LINK SETUP RESPONSE message.]

[TDD - The DRNC shall include the Secondary CCPCH Info TDD IE in the RADIO LINK SETUP RESPONSE message if at least one DSCH Information Response IE or USCH Information Response IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the [3.84Mcps TDD - Secondary CCPCH Info TDD IE] [1.28Mcps TDD – Secondary CCPCH Info TDD LCR IE] in the RADIO LINK SETUP RESPONSE message if at least one DSCH Information Response IE or USCH Information Response IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

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

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE and the UTRAN access point position for each of the established RLs in the RADIO LINK SETUP RESPONSE message.

If the DRNS need to limit the user rate in the uplink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed UL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK SETUP RESPONSE message for this Radio Link.

If the DRNS need to limit the user rate in the downlink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed DL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK SETUP RESPONSE message for this Radio Link.

If the *Permanent NAS UE Identity* IE is included in the RADIO LINK SETUP REQUEST message, the DRNS shall store the information for the considered UE Context for the life-time of the UE Context.

If the RADIO LINK SETUP REQUEST message includes the *Permanent NAS UE Identity* IE and a *C-ID* IE corresponding to a cell reserved for operator use, the DRNC shall use this information to determine whether it can set up a Radio Link on this cell or not for the considered UE Context.

[FDD - Radio Link Set Handling]:

[FDD - The *First RLS Indicator* IE indicates if the concerning RL shall be considered part of the first RLS established towards this UE. The *First RLS Indicator* IE shall be used by the DRNS to determine the initial TPC pattern in the DL of the concerning RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.

[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 –The UL Uu synchronisation detection algorithm defined in ref. [10] subclause 4.3 shall for each of the established RL Set(s) use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set].

Response Message:

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 established.

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

8.3.1.3 Unsuccessful Operation



Figure 6: Radio Link Setup procedure: Unsuccessful Operation

In unsuccessful case (i.e. one or more RLs can not be established) 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 the RADIO LINK SETUP REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the *Permanent NAS UE Identity* IE is not present, the DRNC shall consider the procedure as failed and send the RADIO LINK SETUP FAILURE message.

Typical cause values are:

Radio Network Layer Causes:

- [FDD UL Scrambling Code Already in Use];
- DL Radio Resources not Available;
- UL Radio Resources not Available;
- [FDD Combining Resources not available];
- Combining not Supported
- Requested Configuration not Supported;
- Cell not Available;
- [FDD Requested Tx Diversity Mode not Supported];
- Power Level not Supported;
- Number of DL codes not supported;
- Number of UL codes not supported;
- Dedicated Transport Channel Type not Supported;
- DL Shared Channel Type not Supported;
- [TDD UL Shared Channel Type not Supported];
- [FDD UL Spreading Factor not Supported];
- [FDD DL Spreading Factor not Supported];
- CM not Supported;
- [FDD DPC mode change not Supported];
- Cell reserved for operator use.

Transport Layer Causes:

- Transport Resource Unavailable.

Miscellaneous Causes:

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

8.3.1.4 Abnormal Conditions

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Active Pattern Sequence Information* IE, but the *Transmission Gap Pattern Sequence Information* IE is not present, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

Release 4

[FDD – If the RADIO LINK SETUP REQUEST message includes both the *Initial DL TX Power* IE and the *Primary CPICH Ec/No* IE or does not include either of these IEs, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

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

[FDD - If only the *Initial DL TX Power* IE or the *Uplink SIR Target* IE is included in the RADIO LINK SETUP REQUEST message, then DRNC shall regard the Radio Link Setup procedure as failed and shall respond with the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs, and if the DCHs in the *DCH Information* IE do not have the same *Transmission Time Interval* IE in the *Semistatic Transport Format Information* IE, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.

8.3.2 Radio Link Addition

8.3.2.1 General

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

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

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

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

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

8.3.2.2 Successful Operation



Figure 7: Radio Link Addition procedure: Successful Operation

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

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

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

Transport Channel Handling:

DSCH:

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

Physical Channels Handling:

[FDD-Compressed Mode]:

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Active Pattern Sequence Information* IE, the DRNS shall use the information to activate the indicated (all ongoing) Transmission Gap Pattern Sequence(s) in the new RL. The received *CM Configuration Change CFN* IE refers to the latest passed CFN with that value. The DRNS shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the DRNS shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the DRNS shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]

- [FDD - For all other Transmission Gap Pattern Sequences included in the *Active Pattern Sequence Information* IE, the DRNS shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE for the Transmission Gap Pattern Sequence.]

FDD - If the *Active Pattern Sequence Information* IE is not included, the DRNS shall not activate the ongoing compressed mode pattern in the new RLs, but the ongoing pattern in the existing RL shall be maintained.]

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

[FDD-DL Code Information]:

[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*".]

General:

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

Radio Link Handling:

Diversity Combination Control:

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. If the *Diversity Control Field* IE is set to "Must", the DRNS shall not combine the RL with any other existing RL.

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

[FDD - In the case of combining one or more RLs being established by this procedure, the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message with the *Diversity Indication* IE that the RL is combined with another RL for all RLs but the first RL. In this case the Reference RL ID shall be included to indicate one of the other RLs being established by this procedure that the new RL is combined with. The Reference *RL ID* IE shall not be included for the first of the combined RLs, for which the *Transport Layer Address* IE and the *Binding ID* IE shall be included.]

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

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

If the DRNS need to limit the user rate in the uplink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed UL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK ADDITION RESPONSE message for this Radio Link.

If the DRNS need to limit the user rate in the downlink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed DL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK ADDITION RESPONSE message for this Radio Link.

[FDD-Transmit Diversity]:

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

[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.]

[FDD – When *Transmit Diversity Indicator* IE is present the DRNS shall activate/deactivate the Transmit Diversity to each new Radio Link in accordance with the *Transmit Diversity Indicator* IE using the diversity mode of the existing Radio Link(s).]

DL Power Control:

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

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

[FDD - The Initial DL TX Power shall be applied until UL synchronisation is achieved on the Uu interface for that RLS or **Power Balancing is activated**. No inner loop 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) and the power control procedure (see 8.3.7)].

[TDD – The Initial DL TX Power shall be applied until UL synchronisation is achieved on the Uu interface 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 - If the *DPC Mode* IE is present in the RADIO LINK ADDITION REQUEST message, the DRNC shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the life time of the RL. If the *DPC Mode* IE is not present in the RADIO LINK ADDITION REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]

The DRNC shall also provide the configured UL 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 DRNS shall not

transmit with a higher power than indicated by the *Maximum DL TX Power IE* or lower than indicated by the *Minimum DL TX Power IE* on any DL DPCH of the RL [FDD – except during compressed mode, when the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k].

[FDD – If the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Individual" in the existing RL(s) and the RADIO LINK ADDITION REQUEST message includes the *DL Reference Power* IE, the DRNS shall activate the power balancing and use the *DL Reference Power* IE for the power balancing procedure in the new RL(s), if activation of power balancing by the RADIO LINK ADDITION REQUEST message is supported, according to subclause 8.3.15.]

[FDD – If activation of power balancing by the RADIO LINK ADDITION REQUEST message is supported by the DRNS, the DRNC shall include the *DL Power Balancing Activation Indicator* IE in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

DL Code Information:

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.

Neighbouring Cell Handling:

If there are UMTS neighbouring cell(s) to the cell in which a Radio Link was established then:

- The DRNC shall include the *Neighbouring FDD Cell Information* IE and/or *Neighbouring TDD Cell Information* IE in the *Neighbouring UMTS Cell Information* IE for each neighbouring FDD cell and/or TDD cell respectively. In addition, if the information is available, the DRNC shall include the *Frame Offset* IE, *Primary CPICH Power* IE, *Cell Individual Offset* IE, *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE and Closed Loop Mode2 Support Indicator IE in the *Neighbouring FDD Cell Information* IE, and the *Frame Offset* IE, *Cell Individual Offset* IE, *DPCH Constant Value* IE and the *PCCPCH Power* IE in the *Neighbouring TDD Cell Information* IE.
- If a UMTS neighbouring cell is not controlled by the same DRNC, the DRNC shall also include the *CN PS Domain Identifier* IE and/or *CN CS Domain Identifier* IE which are the identifiers of the CN nodes connected to the RNC controlling the UMTS neighbouring cell.
- [FDD The DRNC shall include the *DPC Mode Change Support Indicator* IE if the DRNC is aware that the neighbouring cell supports DPC mode change.]

For the UMTS neighbouring cells which are controlled by the DRNC, the DRNC shall report in the RADIO LINK SETUP RESPONSE message the restriction state of those cells, otherwise *Restriction state indicator* IE may be absent. The DRNC shall include the *Restriction state indicator* IE for the neighbouring cells which are controlled by the DRNC in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.

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

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

General:

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

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE, and the UTRAN access point position for each of the added RLs in the RADIO LINK ADDITION RESPONSE message.

For each Radio Link established in a cell where at least one URA Identity is being broadcast, the DRNC shall include a URA Identity for this cell in the *URA ID* IE, the *Multiple URAs Indicator* IE indicating whether or not multiple URA Identities are being broadcast in the cell, and the RNC Identity of all other

RNCs that are having at least one cell within the URA in the cell in the URA Information IE in the RADIO LINK ADDITION RESPONSE message.

[FDD - If the UE has been allocated one or several DCH controlled by DRAC and if the DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link established in a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK ADDITION RESPONSE message.]

[TDD - The DRNC shall include the [3.84Mcps TDD - Secondary CCPCH Info TDD IE] [1.28Mcps TDD – Secondary CCPCH Info TDD LCR IE] in the RADIO LINK ADDITION RESPONSE message if at least one DSCH Information Response IE or USCH Information Response IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the [3.84Mcps TDD - Secondary CCPCH Info TDD IE] [1.28Mcps TDD – Secondary CCPCH Info TDD LCR IE] in the RADIO LINK ADDITION RESPONSE message if at least one [3.84Mcps TDD - DSCH Information Response IE] [1.28Mcps TDD – DSCH Information Response LCR IE or USCH Information Response LCR IE] or USCH Information Response IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

If the *Permanent NAS UE Identity* IE is present in the RADIO LINK ADDITION REQUEST message, the DRNS shall store the information for the considered UE Context for the life-time of the UE Context.

If the RADIO LINK ADDITION REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the Permanent NAS UE Identity is available in the DRNC for the considered UE Context, the DRNC shall use this information to determine whether it can add the Radio Link on this cell or not.

[FDD-Radio Link Set Handling]:

[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.]

[FDD – After addition of the new RL(s), the UL Uu synchronisation detection algorithm defined in ref. [10] subclause 4.3 shall for each of the previously existing and newly established RL Set(s) use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set].

Response message:

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

After sending of the RADIO LINK ADDITION RESPONSE message the DRNS shall continuously attempt to obtain UL synchronisation on the Uu interface and start reception on the new RL. [FDD - The DRNS shall start DL transmission on the new RL after synchronisation is achieved in the DL user plane as specified in ref. [4].] [TDD – The DRNS shall start transmission on the new RL immediately as specified in ref. [4].]
8.3.2.3 Unsuccessful Operation



Figure 8: 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 compressed mode 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".]

Typical cause values are:

Radio Network Layer Causes:

- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Combining Resources not Available;
- Combining not Supported
- Cell not Available;
- [FDD Requested Tx Diversity Mode not Supported];
- Power Level not Supported;
- CM not Supported;
- Reconfiguration CFN not Elapsed;
- Number of DL Codes not Supported;
- Number of UL codes not Supported;
- [FDD DPC mode change not Supported];
- Cell reserved for operator use.

Transport Layer Causes:

- Transport Resource Unavailable.

Miscellaneous Causes:

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

8.3.2.4 Abnormal Conditions

If the RADIO LINK ADDITION REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the Permanent NAS UE Identity is not available in the DRNC for the considered UE Context, the DRNC shall consider the procedure as failed for this particular Radio Link and send the RADIO LINK ADDITION FAILURE message.

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Transmission Gap Pattern Sequence Status* IEs in the *Active Pattern Sequence Information* IE and it does 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 establish a new RL without compressed mode when compressed mode is active for the existing RL(s) (as specified in subclause 8.3.2.2), but at least one new RL is to be established in a cell that has the same UARFCN (both UL and DL) as 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".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Individual" in the existing RL(s) and if the *DL Reference Power* IEs are included in the *RL Information* IE but the *DL Reference Power* IE is not present for each RL in the *RL Information* IE, the DRNC shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *DL Reference Power* IEs in the *RL Information* IE but the power balancing is not active in the existing RL(s) or the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Common" in the existing RL(s), the DRNC shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Power Balancing status not compatible".]

9.1.3 RADIO LINK SETUP REQUEST

9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
			and reference	description		Criticality
Message Type	М		9.2.1.40		YES	reiect
Transaction ID	M		9.2.1.59		_	
SRNC-Id	M		RNC-Id		YES	reiect
			9.2.1.50			,
S-RNTI	Μ		9.2.1.53		YES	reject
D-RNTI	0		9.2.1.24		YES	reject
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL DPCH Information		1			YES	reject
>UL Scrambling Code	Μ		9.2.2.53		_	
>Min UL Channelisation	М		9.2.2.25		_	
Max Number of LI	C –		92224			
DPDCHs	Codel en		5.2.2.24			
>Puncture Limit	M		9.2.1.46	For the UL.	_	
>TECS	M		TECS for		_	
1100			the UL			
			9.2.1.63			
>UL DPCCH Slot Format	Μ		9.2.2.52		_	
>Uplink SIR Target	0		Uplink SIR		_	
			9.2.1.69			
>Diversity mode	Μ		9.2.2.8		—	
>SSDT Cell Identity Length	0		9.2.2.41		_	
>S Field Length	0		9.2.2.36		_	
>DPC Mode	0		9.2.2.12A		YES	reject
DL DPCH Information		1			YES	reject
>TFCS	Μ		TFCS for		_	
			the DL.			
21 2 2 2 1 2 1 2 2			9.2.1.63			
>DL DPCH Slot Format	M		9.2.2.9		_	
>Number of DL	M		9.2.2.26A		—	
Channelisation Codes	N.4		0.0.0.40			
>TFCI Signalling Mode	M		9.2.2.46		_	
>TFCI Flesence	C- SlotFormat		9.2.1.55		_	
>Multiplexing Position	Μ		9.2.2.26		_	
>Power Offset Information		1			_	
>>PO1	Μ		Power	Power offset	_	
			Offset	for the TFCI		
			9.2.2.30	bits.		
>>PO2	M		Power	Power offset	—	
			Offset	for the TPC		
	N.4		9.2.2.30	Dits.		
>>PO3	IVI		Power	for the pilot	_	
			92230	hits		
>EDD TPC Downlink Step	М		92216	5113.	_	
Size			0.2.2.10			
>Limited Power Increase	Μ		9.2.2.21A		—	
>Inner Loop DL PC Status	Μ		9.2.2.21a		_	
DCH Information	Μ		DCH FDD		YES	reject
			Information			
			9.2.2.4A			
DSCH Information	0		DSCH		YES	reject
			FDD Isfam ti			
			Information			
PL Information	<u> </u>	1	9.2.2.13A		EACU	notifi :
		n <maxn< td=""><td></td><td></td><td>EACH</td><td>notity</td></maxn<>			EACH	notity
	М	0017282	92149			
>C-Id	M		9216			
~ U IU	1.41	1	0.2.1.0	1	_	1

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>First RLS Indicator	Μ		9.2.2.16A		-	
>Frame Offset	Μ		9.2.1.30		_	
>Chip Offset	Μ		9.2.2.1		_	
>Propagation Delay	0		9.2.2.33		_	
>Diversity Control Field	C – NotFirstRL		9.2.1.20		-	
>Initial DL TX Power	0		DL Power 9.2.1.21A		_	
>Primary CPICH Ec/No	0		9.2.2.32		-	
>SSDT Cell Identity	0		9.2.2.40		—	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.48		_	
>SSDT Cell Identity for EDSCHPC	C- EDSCHPC		9.2.2.40A		YES	ignore
Transmission Gap Pattern Sequence Information	0		9.2.2.47A		YES	reject
Active Pattern Sequence	0		9.2.2.A		YES	reject
Permanent NAS UE Identity	0		9.2.1.73		YES	ignore
DL Power Balancing Information	<u>0</u>		<u>9.2.2.xx</u>		YES	<u>ignore</u>

9.1.4 RADIO LINK SETUP RESPONSE

9.1.4.1 FDD Message

IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
			and	description		Criticality
Magazza Turna	N.4		reference		VEO	
Transaction ID			9.2.1.40		TES	reject
	M		9.2.1.59			ignoro
CN PS Domain Identifier	0		9.2.1.24		VES	ignore
CN CS Domain Identifier	0		9.2.1.12		VES	ignore
RI Information Response	0	1 <maxno< td=""><td>5.2.1.11</td><td></td><td>FACH</td><td>ignore</td></maxno<>	5.2.1.11		FACH	ignore
		ofRI s>			LAON	ignore
>RL ID	М	0.1.1207	9.2.1.49		_	
>RL Set ID	М		9.2.2.35		_	
>URA Information	0		9.2.1.70B		_	
>SAI	Μ		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point	0		9.2.1.70A		—	
Position						
>Received Total Wide Band	M		9.2.2.35A		_	
Power						
>Secondary CCPCH Info	0		9.2.2.37B		_	
>DL Code Information	M		FDD DL		—	
			Lode			
			0 2 2 1/Δ			
>Diversity Indication	C-		92121		_	
	NotFirstRL		0.2.1.21			
>CHOICE Diversity	M				_	
Indication						
>>Combining					_	
>>>RL ID	Μ		9.2.1.49	Reference	-	
				RL ID for the		
				combining		-
>>>DCH Information	0		9.2.1.16A		YES	ignore
Response						
>>INON COMDINING OF FIRST					_	
>>>DCH Information	M		921164			
Response	101		3.2.1.10A			
>SSDT Support Indicator	М		9.2.2.43		_	
>Maximum Uplink SIR	M		Uplink SIR		_	
			9.2.1.69			
>Minimum Uplink SIR	М		Uplink SIR		_	
			9.2.1.69			
>Closed Loop Timing	0		9.2.2.3A		—	
Adjustment Mode						
>Maximum Allowed UL Tx	М		9.2.1.35		—	
	N.4					
>Maximum DL TX Power	IVI		DL Power		_	
	M		9.2.1.21A			
	171		92121A		_	
>Primary Scrambling Code	0		9.2.1.45		_	
>UL UARFCN	0		UARFCN	Corresponds	_	
	-		9.2.1.66	to Nu in ref.		
				[6]		
>DL UARFCN	0		UARFCN	Corresponds	_	
			9.2.1.66	to Nd in ref.		
				[6]		
>Primary CPICH Power	M		9.2.1.44		-	
>DSCH Information	0		DSCH		YES	ignore
Response			FUU			
			Response			

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IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
			9.2.2.13B			
>Neighbouring UMTS Cell Information	0		9.2.1.41A		_	
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>PC Preamble	Μ		9.2.2.27a		-	
>SRB Delay	М		9.2.2.39A		-	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>DL Power Balancing Activation Indicator	<u>0</u>		<u>9.2.2.x</u>		<u>YES</u>	ignore
Uplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

9.1.5 RADIO LINK SETUP FAILURE

9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
			and	description		Criticality
			reference			·
Message Type	M		9.2.1.40		YES	reject
I ransaction ID	M		9.2.1.59		-	·
D-RNTI CNLPC Demoin Identifier	0		9.2.1.24		YES	Ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
	0 M		9.2.1.11		TES VES	ignore
CHOICE Cause Level	IVI				160	ignore
	M		0215			
>PL Specific	IVI		3.2.1.3			
>>Unsuccessful RI		1 ∠maxn			FACH	ignore
Information Response		oofRLs>			Entern	ignore
>>>RL ID	М	00111201	9.2.1.49		_	
>>>Cause	Μ		9.2.1.5		_	
>>Successful RL		0 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<>			EACH	ignore
Information Response		ofRLs-1>				Ũ
>>>RL ID	М		9.2.1.49		_	
>>>RL Set ID	Μ		9.2.2.35		—	
>>>URA Information	0		9.2.1.70B		_	
>>>SAI	Μ		9.2.1.52		_	
>>>Cell GAI	0		9.2.1.5A		_	
>>>UTRAN Access Point	0		9.2.1.70A		_	
Position						
>>>Received Total Wide	Μ		9.2.2.35A		—	
Band Power	-					
>>>Secondary CCPCH	0		9.2.2.37B		—	
INIO	N4					
	IVI		Code		_	
			Information			
			9.2.2.14A			
>>>Diversity Indication	М		9.2.1.21		_	
>>>CHOICE Diversity	М		-		_	
Indication						
>>>Combining					-	
>>>>RL ID	М		9.2.1.49	Reference	—	
				RL ID for the		
				combining		
>>>>DCH	0		9.2.1.16A		YES	ignore
Information Response						
>>>INON COMDINING OF					_	
	M		0.2.1.164			
Information Response	IVI		3.2.1.10A		_	
>>>SSDT Support	М		9.2.2.43		_	
Indicator			0.2.2.10			
>>>Maximum Uplink SIR	М		Uplink SIR		_	
			9.2.1.69			
>>>Minimum Uplink SIR	Μ		Uplink SIR		_	
			9.2.1.69			
>>>Closed Loop Timing	0		9.2.2.3A		_	
Adjustment Mode						
>>>Maximum Allowed	Μ		9.2.1.35		—	
UL Ix Power						
>>>Maximum DL TX	M		DL Power		-	
	N/		9.2.1.21A			
>>>iviinimum DL TX	IVI				_	
	М		3.2.1.21A			
Power			0.2.1.77			

I

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Primary Scrambling Code	0		9.2.1.45		_	
>>>UL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nu in ref. [6]	_	
>>>DL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nd in ref. [6]	_	
>>>DSCH Information Response	0		DSCH FDD Information Response 9.2.2.13B		YES	ignore
>>>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>>>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>>>PC Preamble	М		9.2.2.27a		-	
>>>SRB Delay	М		9.2.2.39A		-	
>>>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>>>DL Power Balancing Activation Indicator	<u>0</u>		<u>9.2.2.x</u>		YES	ignore
Uplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

9.1.6 RADIO LINK ADDITION REQUEST

9.1.6.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reiect
Transaction ID	M		9.2.1.59		_	
Uplink SIR Target	М		Uplink SIR 9.2.1.69		YES	reject
RL Information		1 <maxn oofRLs- 1></maxn 			EACH	notify
>RL ID	М		9.2.1.49		_	
>C-Id	М		9.2.1.6		_	
>Frame Offset	М		9.2.1.30		_	
>Chip Offset	М		9.2.2.1		_	
>Diversity Control Field	М		9.2.1.20		_	
>Primary CPICH Ec/No	0		9.2.2.32		_	
>SSDT Cell Identity	0		9.2.2.40		_	
>Transmit Diversity Indicator	0		9.2.2.48		_	
>DL Reference Power	<u>0</u>		DL Power 9.2.1.21A	Power on DPCH	<u>YES</u>	ignore
Active Pattern Sequence Information	0		9.2.2A	Either all the already active Transmissio n Gap Sequence(s) are addressed (Transmissio n Gap Pattern sequence shall overlap with the existing one) or none of the transmission gap sequences is activated.	YES	reject
DPC Mode	0		9.2.2.12A		YES	reject
Permanent NAS UE Identity	0	1	9.2.1.73		YES	Ignore

9.1.7 RADIO LINK ADDITION RESPONSE

9.1.7.1 FDD Message

IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
		_	and	description	-	Criticality
			reference			
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		—	
RL Information Response		1 <maxnoof< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxnoof<>			EACH	ignore
		RLs-1>				
>RL ID	Μ		9.2.1.49		—	
>RL Set ID	Μ		9.2.2.35		—	
>URA Information	0		9.2.1.70B		_	
>SAI	Μ		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point	0		9.2.1.70A		_	
Position						
>Received Total Wide	Μ		9.2.2.35A		_	
Band Power						
>Secondary CCPCH Info	0		9.2.2.37B		_	
>DL Code Information	Μ		FDD DL		YES	ignore
			Code			-
			Information			
			9.2.2.14A			
>Diversity Indication	Μ		9.2.1.21		_	
>CHOICE Diversity	Μ				_	
Indication						
>>Combining					_	
>>>RL ID	Μ		9.2.1.49	Reference	_	
				RL ID		
>>>DCH Information	0		9.2.1.16A		YES	ignore
Response						_
>>Non Combining					_	
>>>DCH Information	Μ		9.2.1.16A		_	
Response						
>SSDT Support Indicator	Μ		9.2.2.43		—	
>Minimum Uplink SIR	Μ		Uplink SIR		_	
			9.2.1.69			
>Maximum Uplink SIR	Μ		Uplink SIR		_	
			9.2.1.69			
>Closed Loop Timing	0		9.2.2.3A		—	
Adjustment Mode						
>Maximum Allowed UL Tx	Μ		9.2.1.35		_	
Power						
>Maximum DL TX Power	Μ		DL Power		-	
			9.2.1.21A			
>Minimum DL TX Power	Μ		DL Power		-	
			9.2.1.21A			
>Neighbouring UMTS Cell	0		9.2.1.41A		_	
Information						
>Neighbouring GSM Cell	0		9.2.1.41C		_	
Information						
>PC Preamble	Μ		9.2.2.27a		_	
>SRB Delay	Μ		9.2.2.39A		_	
>Primary CPICH Power	М		9.2.1.44		-	
>Cell GA Additional	0		9.2.1.5B		YES	ignore
Shapes					-	
>DL Power Balancing	0		9.2.2.x		YES	ignore
Activation Indicator	_					
Criticality Diagnostics	0		9.2.1.13		YES	ignore

9.1.8 RADIO LINK ADDITION FAILURE

9.1.8.1 FDD Message

IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
			and	description		Criticality
Message Type	М		92140		VES	reject
Transaction ID	M		9.2.1.40		-	Tejeot
CHOICE Cause Level	M		0.2.1.00		VES	ianore
Seperal	101				-	ignore
	М		9215		_	
>RL Specific	101		0.2.1.0		_	
>>Unsuccessful RI		1 <maxnoof< td=""><td></td><td></td><td>FACH</td><td>ianore</td></maxnoof<>			FACH	ianore
Information Response		RLs-1>				ignere
>>>RL ID	М		9.2.1.49		_	
>>>Cause	M		9.2.1.5		_	
>>Successful RL		0 <maxnoof< td=""><td></td><td></td><td>EACH</td><td>ianore</td></maxnoof<>			EACH	ianore
Information Response		RLs-2>				5
>>>RL ID	М		9.2.1.49		_	
>>>RL Set ID	М		9.2.2.35		_	
>>>URA Information	0		9.2.1.70B		_	
>>>SAI	М		9.2.1.52		—	
>>>Cell GAI	0		9.2.1.5A		—	
>>>UTRAN Access	0		9.2.1.70A		-	
Point Position						
>>Received Total Wide Band Power	Μ		9.2.2.35A		_	
>>>Secondary CCPCH Info	0		9.2.2.37B		_	
>>>DL Code	М		FDD DL		YES	ignore
Information			Code			
			Information			
			9.2.2.14A			
>>>Diversity Indication	M		9.2.1.21		-	
>>>CHOICE Diversity	М				-	
Indication						
	N.4		0.0.1.40	Deference	-	
>>>>RL ID	IVI		9.2.1.49		_	
	0		921164		VES	ianore
Information	Ŭ		0.2.1.10/		120	ignore
Response						
>>>Non Combining	-				_	
>>>>DCH	М		9.2.1.16A		_	
Information						
Response						
>>>SSDT Support	М		9.2.2.43		-	
Indicator						
>>>Minimum Uplink	М		Uplink SIR		-	
SIR	N.4		9.2.1.69			
>>>Maximum Uplink	IVI				_	
	0	1	9.2.1.09			
Adjustment Mode	U		9.2.2.3A		_	
>>>Maximum Allowed	М		92135		_	
UL Tx Power						
>>>Maximum DL TX	М		DL Power		-	
Power			9.2.1.21A			
>>>Minimum DL TX	М		DL Power		-	
Power			9.2.1.21A			
>>>Neignbouring UMTS Cell Information	0		9.2.1.41A		-	
>>>Neighbouring GSM	0		9.2.1.41C		-	
Cell Information			0.0.4.44			
>>>Primary CPICH Power	IVI		9.2.1.44		_	

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>PC Preamble	Μ		9.2.2.27a		-	
>>>SRB Delay	Μ		9.2.2.39A		-	
>>>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>>>DL Power Balancing Activation Indicator	<u>O</u>		<u>9.2.2.x</u>		<u>YES</u>	<u>ignore</u>
Criticality Diagnostics	0		9.2.1.13		YES	ignore

<Not affected part is omitted>

9.2.2 FDD Specific Parameters

<Not affected part is omitted>

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 Cause Group				•
>Radio Network Layer				
>Radio Network Layer >>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, UL Radio Resources not Available, Measurement not Supported For The Object, Combining Resources Not Available, Combining not Supported, Reconfiguration not Allowed, Requested Configuration not Supported, Synchronisation Failure, Requested Tx Diversity Mode not Supported, Measurement Temporarily not Available, Unspecified, Invalid CM Settings, Reconfiguration CFN not Elapsed, Number of DL Codes Not Supported, Dedicated Transport Channel Type not Supported, UL Shared Channel Type not Supported, UL Shared Channel Type not Supported, UL Shared Channel Type not Supported, UL Spreading Factor not Supported, DL Spreading Factor not Supported, DD Supported, Common Transport Channel Type not Supported, UL Spreading Factor not Supported, DL Spreading Factor not Supported, DD Supported, Common Transport Channel Type not Supported, UL Spreading Factor not Supported, DD Supported, Common Transport Channel Type not Supported, Common Transport Channel Type not Supported, UL Spreading Factor not Supported, DD Supported, Common Transport Channel Type not Supported, Common Transport Channel Type not S	
Trease and Leaves			<u>compatible</u>)	
 >Transport Layer >>Transport Layer Cause 	М		ENUMERATED (Transport Resource Unavailable, Unspecified,)	
>Protocol				
>>Protocol Cause			ENUMERATED (Transfer Syntax Error, Abstract Syntax Error (Reject), Abstract Syntax Error (Ignore and Notify), Message not Compatible with Receiver State, Semantic Error, Unspecified, Abstract Syntax Error (Falsely Constructed Message),)	
>>Miscellaneous Cause	M		ENUMERATED (Control Processing Overload, Hardware Failure, O&M Intervention, Not enough User Plane Processing Resources, Unspecified)	

The meaning of the different cause values is described in the following table. In general, "not supported" cause values indicate that the concerning capability is missing. On the other hand, "not available" cause values indicate that the concerning capability is present, but insufficient resources were available to perform the requested action.

Radio Network Layer cause	Meaning
Cell not Available	The concerning cell is not available
Cell reserved for operator use	The concerning cell is reserved for operator use
Combining not Supported	The DRNS does not support the RL combining for the concerning cells
Combining Resources Not	The value of the received Diversity Control Field IE was set to 'Must',
Available	but the DRNS cannot perform the requested combining
CM not Supported	The concerning cell(s) do not support Compressed Mode
Common Transport Channel Type	The concerning cell(s) do not support the RACH and/or FACH and/or
not Supported	CPCH Common Transport Channel Type
Dedicated Transport Channel Type	The concerning cell(s) do not support the Dedicated Transport Channel
not Supported	Туре
DL Radio Resources not Available	The DRNS does not have sufficient DL radio resources available
DL SF not Supported	The concerning cell(s) do not support the requested DL SF
DL Shared Channel Type not	The concerning cell(s) do not support the Downlink Shared Channel
Supported	Туре
DPC Mode Change not Supported	The concerning cells do not support the DPC mode changes
Information Provision not	The RNS doesn't support provision of the requested information for the
supported for the object	concerned object types
Information temporarily not	The RNS can temporarily not provide the requested information
available	
Invalid CM Settings	The concerning cell(s) consider the requested Compressed Mode settings invalid
Measurement not Supported For	At least one of the concerning cell(s) does not support the requested
The Object	measurement on the concerning object type
Measurement Temporarily not Available	The DRNS can temporarily not provide the requested measurement value
Number of DL Codes not Supported	The concerning cell(s) do not support the requested number of DL codes
Number of UL Codes not	The concerning cell(s) do not support the requested number of UL codes
Supported	
Power Level not Supported	A DL power level was requested which the concerning cell(s) do not
	support
Power Balancing status not	The power balancing status in the SRNC is not compatible with that of
compatible	the DRNC.
Reconfiguration CFN not Elapsed	The requested action cannot be performed due to that a COMMIT
	message was received previously, but the concerning CFN has not yet
	elapsed
Reconfiguration not Allowed	The SRNC does currently not allow the requested reconfiguration
Requested Configuration not	The concerning cell(s) do not support the requested configuration i.e.
Supported	power levels, Transport Formats, physical channel parameters,
Requested Tx Diversity mode not	The concerning cell(s) do not support the requested transmit diversity
Supported	
RL Already Activated/ Allocated	The DRNS has already allocated an RL with the requested RL ID for this
Sunchronization Failure	UE CONTEXT
Transaction not Supported by	Loss of UL UU synchronisation
Destination Node R	corresponding action in the destination Node R
LIL Padio Pasouros not Available	The DPNS does not have sufficient III, radio resources available
UL Scrambling Code Already in	The concerning III scrambling code is already in use for another IE
Use	The concerning OL scramoling code is already in use for another OE
UL SF not Supported	The concerning cell(s) do not support the requested minimum III SF
UL Shared Channel Type not	The concerning cell(s) do not support the Unlink Shared Channel Type
Supported	The concerning conto, do not support the opinit billiod chamiler Type
Unknown C-ID	The DRNS is not aware of a cell with the provided C-Id
Unspecified	Sent when none of the above cause values applies but still the cause is
L	Radio Network Layer related

<Not affected part is omitted>

9.2.2.10 DL Power

Void

9.2.2.xx DL Power Balancing Information

The *DL Power Balancing Information* IE provides information for power balancing to be activated in the relevant <u>RL(s)</u>.

IE/Group Name	Presence	<u>Range</u>	<u>IE type</u> and	Semantics description	<u>Criticality</u>	Assigned Criticality
			reference			
Power Adjustment Type	M		9.2.2.28		=	
DL Reference Power	C-Common		<u>DL power</u> 9.2.1.21A	Power on DPCH	=	
DL Reference Power	C-Individual	1 <maxnoof< td=""><td></td><td></td><td>=</td><td></td></maxnoof<>			=	
Information		<u>RLs></u>				
<u>>RL ID</u>	<u>M</u>		<u>9.2.1.49</u>		<u> </u>	
>DL Reference Power	M		DL power	Power on	=	
			<u>9.2.1.21A</u>	<u>DPCH</u>		
Max Adjustment Step	<u>C-</u>		<u>9.2.2.23</u>		=	
	<u>CommonOrIn</u>					
	<u>dividual</u>		_			
Adjustment Period	<u>C-</u>		<u>9.2.2.B</u>		=	
	<u>CommonOrIn</u>					
	<u>dividual</u>					
Adjustment Ratio	<u>C-</u>		<u>9.2.2.C</u>		=	
	<u>CommonOrIn</u>					
	<u>dividual</u>					

<u>Condition</u>	Explanation
Common	The IE shall be present if the Power Adjustment Type IE is set to
	"Common".
Individual	The IE shall be present if the Power Adjustment Type IE is set to
	"Individual".
CommonOrIndividual	The IE shall be present if the Power Adjustment Type IE is set to
	"Common' or 'Individual".

Range Bound	Explanation
MaxnoofRLs	Maximum number of Radio Links for a UE.

9.2.2.xx DL Power Balancing Activation Indicator

The DL Power Balancing Activation Indicator IE indicates that the power balancing is activated in the RL.

IE/Group Name	Presence	<u>Range</u>	IE type and reference	Semantics description
DL Power Balancing			ENUMERATED	
Activation Indicator			(DL Power	
			Balancing Activated)	

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.

3GPP TS 25.423 V4.3.0 (2001-12)

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL Scrambling Code			INTEGER (015)	0= Primary scrambling code of the cell 115= Secondary scrambling code

9.3.3 PDU Definitions

-- PDU definitions for RNSAP.

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

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS

```
Active-Pattern-Sequence-Information,
AllocationRetentionPriority,
AllowedQueuingTime,
Allowed-Rate-Information,
AlphaValue,
BLER,
SCTD-Indicator,
BindingID,
C-ID,
C-RNTI,
CCTrCH-ID,
CFN,
ClosedLoopModel-SupportIndicator,
ClosedLoopMode2-SupportIndicator,
Closedlooptimingadjustmentmode,
CN-CS-DomainIdentifier,
CN-PS-DomainIdentifier,
CNDomainType,
Cause,
CellParameterID,
ChipOffset,
CommonMeasurementAccuracy,
CommonMeasurementType,
CommonMeasurementValue,
CommonMeasurementValueInformation,
CongestionCause,
CriticalityDiagnostics,
```

D-RNTI, D-RNTI-ReleaseIndication. DCH-FDD-Information. DCH-ID, DCH-InformationResponse, DCH-TDD-Information, DL-DPCH-SlotFormat, DL-TimeslotISCP, DL-Power, DL-PowerBalancing-Information, DL-PowerBalancing-ActivationIndicator, DL-ScramblingCode, DL-Timeslot-Information, DL-TimeslotLCR-Information. DL-TimeSlot-ISCP-Info, DL-TimeSlot-ISCP-LCR-Information, DPC-Mode, DPC-Mode-Change-SupportIndicator, DPCH-ID, DRACControl, DRXCycleLengthCoefficient, DedicatedMeasurementType, DedicatedMeasurementValue, DedicatedMeasurementValueInformation, DiversityControlField, DiversityMode, DSCH-FDD-Information, DSCH-FDD-InformationResponse, DSCH-FlowControlInformation, DSCH-FlowControlItem, DSCH-TDD-Information, DSCH-ID, SchedulingPriorityIndicator, EnhancedDSCHPC, EnhancedDSCHPCCounter, EnhancedDSCHPCIndicator, EnhancedDSCHPCWnd, EnhancedDSCHPowerOffset, FACH-FlowControlInformation, FDD-DCHs-to-Modify, FDD-DL-ChannelisationCodeNumber, FDD-DL-CodeInformation, FDD-S-CCPCH-Offset, FDD-TPC-DownlinkStepSize, FirstRLS-Indicator, FNReportingIndicator, FrameHandlingPriority, FrameOffset, GA-AccessPointPosition, GA-Cell, GA-CellAdditionalShapes,

IMSI, InformationExchangeID, InformationReportCharacteristics, InformationType, InnerLoopDLPCStatus, L3-Information, LimitedPowerIncrease, MaximumAllowedULTxPower, MaxNrDLPhysicalchannels, MaxNrOfUL-DPCHs, MaxNrTimeslots, MaxNrULPhysicalchannels, MeasurementFilterCoefficient, MeasurementID. MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftLCR, MinimumSpreadingFactor, MinUL-ChannelisationCodeLength, MultiplexingPosition, NeighbouringFDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation, Neighbouring-GSM-CellInformation, Neighbouring-UMTS-CellInformation, NrOfDLchannelisationcodes, PagingCause, PagingRecordType, PDSCHCodeMapping, PayloadCRC-PresenceIndicator, PCCPCH-Power, PC-Preamble, Permanent-NAS-UE-Identity, PowerAdjustmentType, PowerOffset, PrimaryCCPCH-RSCP, PrimaryCPICH-EcNo, PrimaryCPICH-Power, PrimaryScramblingCode, PropagationDelay, PunctureLimit, QE-Selector, RANAP-RelocationInformation, RB-Info, RL-ID, RL-Set-ID, RNC-ID, RepetitionLength, RepetitionPeriod, ReportCharacteristics, Received-total-wide-band-power, RequestedDataValue,

RequestedDataValueInformation, RxTimingDeviationForTA, S-FieldLength, S-RNTI, SCH-TimeSlot, SAI, SFN, Secondary-CCPCH-Info, Secondary-CCPCH-Info-TDD, Secondary-LCR-CCPCH-Info-TDD, SpecialBurstScheduling, SSDT-CellID, SSDT-CellID-Length, SSDT-Indication, SSDT-SupportIndicator, STTD-Indicator, STTD-SupportIndicator, AdjustmentPeriod, ScaledAdjustmentRatio, MaxAdjustmentStep, SecondaryCCPCH-SlotFormat, SRB-Delay, SyncCase, SynchronisationConfiguration, TDD-ChannelisationCode, TDD-DCHs-to-Modify, TDD-DL-Code-Information, TDD-DPCHOffset, TDD-PhysicalChannelOffset, TDD-TPC-DownlinkStepSize, TDD-ChannelisationCodeLCR, TDD-DL-Code-LCR-Information, TDD-UL-Code-Information, TDD-UL-Code-LCR-Information, TFCI-Coding, TFCI-Presence, TFCI-SignallingMode, TimeSlot, TimeSlotLCR, TimingAdvanceApplied, TOAWE, TOAWS, TransmitDiversityIndicator, TransportBearerID, TransportBearerRequestIndicator, TFCS, Transmission-Gap-Pattern-Sequence-Information, TransportFormatManagement, TransportFormatSet, TransportLayerAddress, TrCH-SrcStatisticsDescr,

TSTD-Indicator, TSTD-Support-Indicator, UARFCN, UC-ID, UL-DPCCH-SlotFormat, UL-SIR, UL-FP-Mode, UL-PhysCH-SF-Variation, UL-ScramblingCode, UL-Timeslot-Information, UL-TimeslotLCR-Information, UL-TimeSlot-ISCP-Info, UL-TimeSlot-ISCP-LCR-Info, URA-ID, URA-Information, USCH-ID, USCH-Information FROM RNSAP-IEs PrivateIE-Container{}, ProtocolExtensionContainer{}, ProtocolIE-ContainerList{}, ProtocolIE-ContainerPair{}, ProtocolIE-ContainerPairList{}, ProtocolIE-Container{}, ProtocolIE-Single-Container{}, RNSAP-PRIVATE-IES, RNSAP-PROTOCOL-EXTENSION, RNSAP-PROTOCOL-IES, RNSAP-PROTOCOL-IES-PAIR FROM RNSAP-Containers maxNoOfDSCHs, maxNoOfUSCHs, maxNrOfCCTrCHs, maxNrOfDCHs, maxNrOfTS, maxNrOfDPCHs, maxNrOfRLs, maxNrOfRLSets, maxNrOfRLs-1, maxNrOfRLs-2, maxNrOfULTs, maxNrOfDLTs, maxNoOfDSCHsLCR, maxNoOfUSCHsLCR, maxNrOfCCTrCHsLCR, maxNrOfTsLCR, maxNrOfDLTsLCR, maxNrOfULTsLCR, maxNrOfDPCHsLCR,

maxNrOfLCRTDDNeighboursPerRNC, maxNrOfMeasNCell. id-Active-Pattern-Sequence-Information, id-AdjustmentRatio, id-AllowedOueuingTime, id-BindingID, id-C-ID, id-C-RNTI, id-CFN, id-CFNReportingIndicator, id-CN-CS-DomainIdentifier, id-CN-PS-DomainIdentifier, id-Cause. id-CauseLevel-RL-AdditionFailureFDD, id-CauseLevel-RL-AdditionFailureTDD. id-CauseLevel-RL-ReconfFailure, id-CauseLevel-RL-SetupFailureFDD, id-CauseLevel-RL-SetupFailureTDD, id-CCTrCH-InformationItem-RL-FailureInd, id-CCTrCH-InformationItem-RL-RestoreInd, id-ClosedLoopModel-SupportIndicator, id-ClosedLoopMode2-SupportIndicator, id-CNOriginatedPage-PagingRgst, id-CommonMeasurementAccuracy, id-CommonMeasurementObjectType-CM-Rprt, id-CommonMeasurementObjectType-CM-Rgst, id-CommonMeasurementObjectType-CM-Rsp, id-CommonMeasurementType, id-CongestionCause, id-CriticalityDiagnostics, id-D-RNTI, id-D-RNTI-ReleaseIndication, id-DCHs-to-Add-FDD, id-DCHs-to-Add-TDD. id-DCH-DeleteList-RL-ReconfPrepFDD, id-DCH-DeleteList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfRqstFDD, id-DCH-DeleteList-RL-ReconfRgstTDD, id-DCH-FDD-Information, id-DCH-TDD-Information, id-FDD-DCHs-to-Modify, id-TDD-DCHs-to-Modify, id-DCH-InformationResponse, id-DCH-Rate-InformationItem-RL-CongestInd, 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-ReconfRgstTDD, id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,

id-DL-CCTrCH-InformationItem-RL-SetupRgstTDD, id-DL-CCTrCH-InformationListIE-PhyChReconfRgstTDD, 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-ReconfRgstTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationList-RL-SetupRgstTDD, id-FDD-DL-CodeInformation, id-DL-DPCH-Information-RL-ReconfPrepFDD, id-DL-DPCH-Information-RL-SetupRgstFDD, id-DL-DPCH-Information-RL-ReconfRqstFDD, id-DL-DPCH-InformationItem-PhyChReconfRgstTDD, id-DL-DPCH-InformationItem-RL-AdditionRspTDD, id-DL-DPCH-InformationItem-RL-SetupRspTDD, id-DL-DPCH-InformationAddListIE-RL-ReconfReadvTDD, id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadvTDD, id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD, id-DL-Physical-Channel-Information-RL-SetupRqstTDD, id-DL-PowerBalancing-Information, id-DL-PowerBalancing-ActivationIndicator, 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-DPC-Mode, id-DPC-Mode-Change-SupportIndicator, id-DSCHs-to-Add-FDD, id-DSCHs-to-Add-TDD. id-DSCH-DeleteList-RL-ReconfPrepTDD, id-DSCH-Delete-RL-ReconfPrepFDD, id-DSCH-FDD-Information, id-DSCH-InformationListIE-RL-AdditionRspTDD, id-DSCH-InformationListIEs-RL-SetupRspTDD, id-DSCH-TDD-Information, id-DSCH-FDD-InformationResponse, id-DSCH-ModifyList-RL-ReconfPrepTDD, id-DSCH-Modify-RL-ReconfPrepFDD, id-DSCHsToBeAddedOrModified-FDD, id-DSCHToBeAddedOrModifiedList-RL-ReconfReadvTDD, id-EnhancedDSCHPC. id-EnhancedDSCHPCIndicator, id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD, id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD, id-GA-Cell,

id-GA-CellAdditionalShapes, id-IMSI. id-InformationExchangeID. id-InformationExchangeObjectType-InfEx-Rprt, id-InformationExchangeObjectType-InfEx-Rgst, id-InformationExchangeObjectType-InfEx-Rsp, id-InformationReportCharacteristics, id-InformationType, id-InnerLoopDLPCStatus, id-L3-Information, id-AdjustmentPeriod, id-MaxAdjustmentStep, id-MeasurementFilterCoefficient. id-MeasurementID. id-PagingArea-PagingRgst, id-Permanent-NAS-UE-Identity, id-FACH-FlowControlInformation, id-PowerAdjustmentType, id-PropagationDelay, id-RANAP-RelocationInformation, id-RL-Information-PhyChReconfRqstFDD, id-RL-Information-PhyChReconfRqstTDD, id-RL-Information-RL-AdditionRqstFDD, id-RL-Information-RL-AdditionRgstTDD. id-RL-Information-RL-DeletionRgst, 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-RL-CongestInd, id-RL-InformationItem-DM-Rprt, id-RL-InformationItem-DM-Rqst, id-RL-InformationItem-DM-Rsp, id-RL-InformationItem-RL-PreemptRequiredInd, id-RL-InformationItem-RL-SetupRgstFDD, id-RL-InformationList-RL-CongestInd, id-RL-InformationList-RL-AdditionRgstFDD, id-RL-InformationList-RL-DeletionRqst, id-RL-InformationList-RL-PreemptRequiredInd, id-RL-InformationList-RL-ReconfPrepFDD, id-RL-InformationResponse-RL-AdditionRspTDD, id-RL-InformationResponse-RL-ReconfReadyTDD, id-RL-InformationResponse-RL-ReconfRspTDD, id-RL-InformationResponse-RL-SetupRspTDD, id-RL-InformationResponseItem-RL-AdditionRspFDD, id-RL-InformationResponseItem-RL-ReconfReadyFDD, id-RL-InformationResponseItem-RL-ReconfRspFDD, id-RL-InformationResponseItem-RL-SetupRspFDD, id-RL-InformationResponseList-RL-AdditionRspFDD, id-RL-InformationResponseList-RL-ReconfReadyFDD,

id-RL-InformationResponseList-RL-ReconfRspFDD, id-RL-InformationResponseList-RL-SetupRspFDD, id-RL-ReconfigurationFailure-RL-ReconfFail. id-RL-Set-InformationItem-DM-Rprt, id-RL-Set-InformationItem-DM-Rgst, id-RL-Set-InformationItem-DM-Rsp, id-RL-Set-Information-RL-FailureInd, id-RL-Set-Information-RL-RestoreInd, id-ReportCharacteristics, id-Reporting-Object-RL-FailureInd, id-Reporting-Object-RL-RestoreInd, id-RxTimingDeviationForTA, id-S-RNTI. id-SAI. id-SFN, id-SFNReportingIndicator, id-SRNC-ID, id-SSDT-CellIDforEDSCHPC, id-STTD-SupportIndicator, id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD, id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-timeSlot-ISCP, 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-ReconfRgstTDD, 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-SetupRgstTDD, id-UL-CCTrCH-InformationList-RL-SetupRgstTDD, id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD, id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD, id-UL-CCTrCH-InformationListIE-RL-ReconfReadvTDD, id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-Information-RL-ReconfPrepFDD, id-UL-DPCH-Information-RL-ReconfRgstFDD, id-UL-DPCH-Information-RL-SetupRqstFDD, id-UL-DPCH-InformationItem-PhyChReconfRgstTDD, 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-SetupRgstTDD. id-UL-SIRTarget. id-URA-Information, id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD, id-USCHs-to-Add, id-USCH-DeleteList-RL-ReconfPrepTDD, id-USCH-InformationListIE-RL-AdditionRspTDD, id-USCH-InformationListIEs-RL-SetupRspTDD, id-USCH-Information. id-USCH-ModifyList-RL-ReconfPrepTDD, id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRqstTDD, id-RL-LCR-InformationResponse-RL-SetupRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD, id-USCH-LCR-InformationListIEs-RL-SetupRspTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRgstTDD. id-RL-LCR-InformationResponse-RL-AdditionRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD, id-DL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD, id-timeSlot-ISCP-LCR-List-DL-PC-Rgst-TDD, id-TSTD-Support-Indicator-RL-SetupRgstTDD

FROM RNSAP-Constants;

OPTIONAL,

```
} ...
```

RadioLinkSetupRequestFDD-IEs RNSAP-PROTOCOL-IES ::= { PRESENCE mandatory | ID id-SRNC-ID CRITICALITY reject TYPE RNC-ID ID id-S-RNTI CRITICALITY reject TYPE S-RNTI PRESENCE mandatory } PRESENCE optional } ID id-D-RNTI CRITICALITY reject TYPE D-RNTI ID id-AllowedOueuingTime 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 PRESENCE mandatory } ID id-DCH-FDD-Information CRITICALITY reject TYPE DCH-FDD-Information ID id-DSCH-FDD-Information CRITICALITY reject TYPE DSCH-FDD-Information PRESENCE optional } | ID id-RL-Information-RL-SetupRgstFDD 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 shall be present 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, sSDT-CellIdLength SSDT-CellID-Length OPTIONAL, s-FieldLength S-FieldLength OPTIONAL, ProtocolExtensionContainer { {UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL, iE-Extensions . . . UL-DPCH-Information-RL-SetupRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= · { ID id-DPC-Mode EXTENSION DPC-Mode PRESENCE optional }, CRITICALITY reject . . . DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE { + FCS TFCS, dl-DPCH-SlotFormat DL-DPCH-SlotFormat, nrOfDLchannelisationcodes NrOfDLchannelisationcodes, tFCI-SignallingMode TFCI-SignallingMode, tFCI-Presence TFCI-Presence OPTIONAL -- This IE shall be present if DL DPCH Slot Format IE is equal to any of the values from 12 to 16 --, multiplexingPosition MultiplexingPosition, powerOffsetInformation PowerOffsetInformation-RL-SetupRqstFDD, fdd-dl-TPC-DownlinkStepSize FDD-TPC-DownlinkStepSize, limitedPowerIncrease LimitedPowerIncrease,

```
innerLoopDLPCStatus
                                    InnerLoopDLPCStatus,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-DPCH-Information-RL-SetupRgstFDD-ExtIEs} } OPTIONAL,
    . . .
DL-DPCH-Information-RL-SetupRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
PowerOffsetInformation-RL-SetupRqstFDD ::= SEOUENCE
       pol-ForTFCI-Bits
                                        PowerOffset,
       po2-ForTPC-Bits
                                        PowerOffset.
       po3-ForPilotBits
                                        PowerOffset.
       iE-Extensions
                                        ProtocolExtensionContainer { { PowerOffsetInformation-RL-SetupRgstFDD-ExtIEs } } OPTIONAL,
        . . .
ļ
PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
l
                                            ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF Protocolle-Single-Container { {RL-InformationItemIEs-RL-
RL-InformationList-RL-SetupRqstFDD
SetupRqstFDD } }
RL-InformationItemIEs-RL-SetupRqstFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationItem-RL-SetupRgstFDD CRITICALITY notify TYPE RL-InformationItem-RL-SetupRgstFDD
                                                                                                                  PRESENCE mandatory
ļ
RL-InformationItem-RL-SetupRgstFDD ::= SEQUENCE {
    rL-ID
                                    RL-ID,
    C-TD
                                    C-ID,
    firstRLS-indicator
                                    FirstRLS-Indicator,
    frameOffset
                                    FrameOffset,
    chipOffset
                                    ChipOffset,
    propagationDelay
                                    PropagationDelay
                                                             OPTIONAL,
                                    DiversityControlField
    diversityControlField
                                                                 OPTIONAL
    -- This IE shall be present 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 shall be present unless Diversity Mode IE in UL DPCH Information group is "none"
                                    ProtocolExtensionContainer { {RL-InformationItem-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
RL-InformationItem-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-SSDT-CellIDforEDSCHPC CRITICALITY ignore EXTENSION SSDT-CellID
                                                                                     PRESENCE conditional },
    -- This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Information IE.
    . . .
}
```

```
RadioLinkSetupRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-Permanent-NAS-UE-Identity
                                                  CRITICALITY ignore
                                                                            EXTENSION Permanent-NAS-UE-Identity
                                                                                                                 PRESENCE optional }
     ID id-DL-PowerBalancing-Information
                                              CRITICALITY ignore
                                                                     EXTENSION
                                                                                DL-PowerBalancing-Information
                                                                                                                 PRESENCE optional },
    . . .
<Not affected part is omitted>
                      *****
-- RADIO LINK SETUP RESPONSE FDD
_ _
RadioLinkSetupResponseFDD ::= SEOUENCE {
                                                             {{RadioLinkSetupResponseFDD-IEs}},
    protocolIEs
                                  ProtocolIE-Container
                                  ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}}
    protocolExtensions
                                                                                                                     OPTIONAL,
    . . .
RadioLinkSetupResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-D-RNTI
                                                                                            PRESENCE optional
                                          CRITICALITY ignore TYPE D-RNTI
     ID id-CN-PS-DomainIdentifier
                                          CRITICALITY ignore TYPE CN-PS-DomainIdentifier
                                                                                             PRESENCE optional
                                                                                             PRESENCE optional
     ID id-CN-CS-DomainIdentifier
                                          CRITICALITY ignore TYPE CN-CS-DomainIdentifier
     ID id-RL-InformationResponseList-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-SetupRspFDD PRESENCE mandatory }
                                          CRITICALITY ignore TYPE UL-SIR
                                                                                        PRESENCE optional } |
     ID id-UL-SIRTarget
                                                                                             PRESENCE optional },
     ID id-CriticalityDiagnostics
                                          CRITICALITY ignore TYPE CriticalityDiagnostics
    . . .
RL-InformationResponseList-RL-SetupRspFDD
                                              ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationResponseItemIEs-RL-
SetupRspFDD} }
RL-InformationResponseItemIEs-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-SetupRspFDD
                          CRITICALITY ignore TYPE RL-InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory
}
RL-InformationResponseItem-RL-SetupRspFDD ::= SEQUENCE {
    rL-ID
                                  RL-ID,
    rL-Set-ID
                                  RL-Set-ID.
    uRA-Information
                                  URA-Information
                                                     OPTIONAL,
    sAI
                                  SAI,
    qA-Cell
                                  GA-Cell
                                              OPTIONAL,
    qA-AccessPointPosition
                                  GA-AccessPointPosition
                                                             OPTIONAL,
    received-total-wide-band-power Received-total-wide-band-power,
    secondary-CCPCH-Info
                                  Secondary-CCPCH-Info
                                                             OPTIONAL,
    dl-CodeInformation
                                  FDD-DL-CodeInformation,
    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,
                                     PrimaryScramblingCode
    primaryScramblingCode
                                                             OPTIONAL,
    uL-UARFCN
                                    UARFCN
                                                             OPTIONAL,
    dL-UARFCN
                                     UARFCN
                                                             OPTIONAL,
    primaryCPICH-Power
                                     PrimaryCPICH-Power,
    dSCHInformationResponse
                                    DSCH-InformationResponse-RL-SetupRspFDD OPTIONAL,
    neighbouring-UMTS-CellInformation
                                        Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
                                        Neighbouring-GSM-CellInformation OPTIONAL,
    pC-Preamble
                                     PC-Preamble,
    sRB-Delay
                                     SRB-Delay,
    iE-Extensions
                                     ProtocolExtensionContainer { {RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,
    . . .
RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-GA-CellAdditionalShapes
                                            CRITICALITY ignore EXTENSION
                                                                             GA-CellAdditionalShapes
                                                                                                         PRESENCE optional }
      ID id-DL-PowerBalancing-ActivationIndicator CRITICALITY ignore
                                                                             EXTENSION
                                                                                             DL-PowerBalancing-ActivationIndicator
                                                                                                                                       PRESENCE
optional},
    . . .
DiversityIndication-RL-SetupRspFDD ::= CHOICE {
    combining
                                    Combining-RL-SetupRspFDD,
    nonCombiningOrFirstRL
                                    NonCombiningOrFirstRL-RL-SetupRspFDD
}
Combining-RL-SetupRspFDD ::= SEQUENCE
    rL-ID
                                RL-ID.
    iE-Extensions
                                ProtocolExtensionContainer { { CombiningItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    . . .
CombiningItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DCH-InformationResponse
                                            CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                         PRESENCE optional }
}
NonCombiningOrFirstRL-RL-SetupRspFDD ::= SEQUENCE {
    dCH-InformationResponse
                                DCH-InformationResponse,
                                ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
```

```
NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DSCH-InformationResponse-RL-SetupRspFDD ::= ProtocolIE-Single-Container {{ DSCH-InformationResponseIE-RL-SetupRspFDD }}
DSCH-InformationResponseIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-FDD-InformationResponse CRITICALITY ignore TYPE
                                                                   DSCH-FDD-InformationResponse PRESENCE mandatory
RadioLinkSetupResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
<Not affected part is omitted>
                      -- RADIO LINK SETUP FAILURE FDD
RadioLinkSetupFailureFDD ::= SEQUENCE {
                                                           {{RadioLinkSetupFailureFDD-IEs}},
   protocolIEs
                                 ProtocolIE-Container
   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
                                                                                  PRESENCE optional }
                                     CRITICALITY ignore TYPE UL-SIR
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
    ID id-CriticalityDiagnostics
                                                                                           PRESENCE optional },
    . . .
CauseLevel-RL-SetupFailureFDD ::= CHOICE {
   generalCause
                     GeneralCauseList-RL-SetupFailureFDD,
   rLSpecificCause
                     RLSpecificCauseList-RL-SetupFailureFDD,
GeneralCauseList-RL-SetupFailureFDD ::= SEQUENCE
    cause
                                             Cause,
   iE-Extensions
                                             ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs } }
                                                                                                                       OPTIONAL,
    . . .
```

```
GeneralCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-SetupFailureFDD ::= SEOUENCE {
    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 ::= SEOUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { { 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 ::= SEOUENCE {
    rL-ID
                                RL-ID,
    cause
                                Cause,
                                    ProtocolExtensionContainer { { UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
SuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {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-TD
                                            RL-ID,
    rL-Set-ID
                                            RL-Set-ID,
    uRA-Information
                                            URA-Information
                                                                 OPTIONAL.
    sAI
                                            SAI,
    qA-Cell
                                            GA-Cell
                                                         OPTIONAL,
                                            GA-AccessPointPosition
    qA-AccessPointPosition
                                                                         OPTIONAL,
    received-total-wide-band-power
                                                                     Received-total-wide-band-power,
    secondary-CCPCH-Info
                                            Secondary-CCPCH-Info
                                                                         OPTIONAL,
```

```
dl-CodeInformation
                                            FDD-DL-CodeInformation,
    diversitvIndication
                                            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,
                                            PrimaryCPICH-Power,
    primaryCPICH-Power
    primaryScramblingCode
                                            PrimaryScramblingCode
                                                                    OPTIONAL,
    uL-UARFCN
                                                    UARFCN
                                                                 OPTIONAL,
    dL-UARFCN
                                                    UARFCN
                                                                 OPTIONAL,
    dSCH-InformationResponse-RL-SetupFailureFDD
                                                     DSCH-InformationResponseList-RL-SetupFailureFDD
                                                                                                         OPTIONAL,
    neighbouring-UMTS-CellInformation
                                            Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
                                            Neighbouring-GSM-CellInformation OPTIONAL,
    pC-Preamble
                                            PC-Preamble,
    sRB-Delay
                                            SRB-Delay,
    iE-Extensions
                                            ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL,
    . . .
SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-GA-CellAdditionalShapes
                                            CRITICALITY ignore EXTENSION
                                                                             GA-CellAdditionalShapes
                                                                                                         PRESENCE optional } |-
     ID id-DL-PowerBalancing-ActivationIndicator CRITICALITY ignore
                                                                             EXTENSION
                                                                                             DL-PowerBalancing-ActivationIndicator
                                                                                                                                       PRESENCE
optional},
    . . .
}
DiversityIndication-RL-SetupFailureFDD ::= CHOICE {
    combining
                                    Combining-RL-SetupFailureFDD,
    nonCombiningOrFirstRL
                                NonCombiningOrFirstRL-RL-SetupFailureFDD
Combining-RL-SetupFailureFDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
                                ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
CombiningItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DCH-InformationResponse
                                            CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                         PRESENCE optional }
NonCombiningOrFirstRL-RL-SetupFailureFDD ::= SEQUENCE {
    dCH-InformationResponse
                                            DCH-InformationResponse,
                                            ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
```

```
NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
}
DSCH-InformationResponseList-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ DSCH-InformationResponseListIEs-RL-SetupFailureFDD }}
DSCH-InformationResponseListIEs-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-FDD-InformationResponse CRITICALITY ignore TYPE DSCH-FDD-InformationResponse
                                                                                            PRESENCE mandatory
RadioLinkSetupFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
<Not affected part is omitted>
_ _
-- RADIO LINK ADDITION REQUEST FDD
_ _
  RadioLinkAdditionRequestFDD ::= SEQUENCE {
                                 ProtocolIE-Container
                                                          {{RadioLinkAdditionRequestFDD-IEs}},
   protocolIEs
                                 ProtocolExtensionContainer {{RadioLinkAdditionRequestFDD-Extensions}}
   protocolExtensions
                                                                                                                  OPTIONAL,
    . . .
RadioLinkAdditionRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
                                    CRITICALITY reject TYPE UL-SIR
                                                                                 PRESENCE mandatory }
     ID id-UL-SIRTarget
     ID id-RL-InformationList-RL-AdditionRqstFDD CRITICALITY notify TYPE RL-InformationList-RL-AdditionRqstFDD PRESENCE mandatory }
    { ID id-Active-Pattern-Sequence-Information CRITICALITY reject TYPE Active-Pattern-Sequence-Information PRESENCE optional },
    . . .
RL-InformationList-RL-AdditionRqstFDD
                                            ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {RL-Information-RL-
AdditionRqstFDD-IEs } }
RL-Information-RL-AdditionRqstFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-Information-RL-AdditionRqstFDD CRITICALITY notify TYPE RL-Information-RL-AdditionRqstFDD
                                                                                                     PRESENCE mandatory
RL-Information-RL-AdditionRqstFDD ::= SEQUENCE {
   rL-ID
                                 RL-ID,
   c-ID
                                 C-ID,
    frameOffset
                                 FrameOffset,
    chipOffset
                                 ChipOffset,
   diversityControlField
                                 DiversityControlField,
```

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```
primaryCPICH-EcNo
                                 PrimaryCPICH-EcNo
                                                        OPTIONAL,
   sSDT-CellID
                                 SSDT-CellID
                                                    OPTIONAL.
    transmitDiversityIndicator
                                 TransmitDiversitvIndicator
                                                               OPTIONAL.
   iE-Extensions
                                 ProtocolExtensionContainer { {RL-Information-RL-AdditionRgstFDD-ExtIEs} } OPTIONAL,
    . . .
RL-Information-RL-AdditionRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   { ID id-DLReferencePower
                              CRITICALITY ignore
                                                    EXTENSION
                                                               DL-Power
                                                                              PRESENCE optional },
RadioLinkAdditionRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-DPC-Mode
                                 CRITICALITY reject
                                                       EXTENSION DPC-Mode
                                                                                  PRESENCE optional }|
    { ID id-Permanent-NAS-UE-Identity
                                                                          EXTENSION Permanent-NAS-UE-Identity
                                                CRITICALITY ignore
                                                                                                              PRESENCE optional },
<Not affected part is omitted>
_ _
-- RADIO LINK ADDITION RESPONSE FDD
  RadioLinkAdditionResponseFDD ::= SEQUENCE {
                                                           {{RadioLinkAdditionResponseFDD-IEs}},
   protocolIEs
                                 ProtocolIE-Container
                                 ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}
   protocolExtensions
                                                                                                                     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
                                                ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {RL-
InformationResponseItemIEs-RL-AdditionRspFDD} }
RL-InformationResponseItemIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-AdditionRspFDD
                                                           CRITICALITY ignore TYPE RL-InformationResponseItem-RL-AdditionRspFDD
                                                                                                                               PRESENCE
mandatory }
RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE
   rL-ID
                                 RL-ID,
   rL-Set-ID
                                 RL-Set-ID,
```

```
uRA-Information
                                    URA-Information
                                                         OPTIONAL,
    sAI
                                     SAI.
    qA-Cell
                                    GA-Cell
                                                OPTIONAL.
    qA-AccessPointPosition
                                    GA-AccessPointPosition OPTIONAL,
    received-total-wide-band-power Received-total-wide-band-power,
    secondary-CCPCH-Info
                                     Secondary-CCPCH-Info
                                                                 OPTIONAL,
    dl-CodeInformation
                                    DL-CodeInformationList-RL-AdditionRspFDD,
    diversitvIndication
                                    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,
    maximumDLTxPower
                                        DL-Power,
    minimumDLTxPower
                                        DL-Power,
    neighbouring-UMTS-CellInformation
                                        Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
                                        Neighbouring-GSM-CellInformation OPTIONAL,
    pC-Preamble
                                        PC-Preamble,
    sRB-Delay
                                        SRB-Delay,
    primaryCPICH-Power
                                        PrimaryCPICH-Power,
                                        ProtocolExtensionContainer { {RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-GA-CellAdditionalShapes
                                            CRITICALITY ignore EXTENSION
                                                                             GA-CellAdditionalShapes
                                                                                                         PRESENCE optional } |-
      ID id-DL-PowerBalancing-ActivationIndicator CRITICALITY ignore
                                                                                             DL-PowerBalancing-ActivationIndicator
                                                                             EXTENSION
                                                                                                                                       PRESENCE
optional},
    . . .
DL-CodeInformationList-RL-AdditionRspFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-AdditionRspFDD }}
DL-CodeInformationListIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-FDD-DL-CodeInformation CRITICALITY ignore TYPE FDD-DL-CodeInformation
                                                                                         PRESENCE mandatory }
DiversityIndication-RL-AdditionRspFDD ::= CHOICE {
    combining
                                    Combining-RL-AdditionRspFDD
    nonCombining
                                    NonCombining-RL-AdditionRspFDD
}
Combining-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    iE-Extensions
                                ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    . . .
CombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```
```
. . . .
    { ID id-DCH-InformationResponse
                                         CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                 PRESENCE optional }
NonCombining-RL-AdditionRspFDD ::= SEQUENCE
   dCH-InformationResponse
                                         DCH-InformationResponse,
                                             ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
}
NonCombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RadioLinkAdditionResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
<Not affected part is omitted>
___
-- RADIO LINK ADDITION FAILURE FDD
_ _
  RadioLinkAdditionFailureFDD ::= SEQUENCE {
                                                           {{RadioLinkAdditionFailureFDD-IEs}},
   protocolIEs
                                 ProtocolIE-Container
                                 ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}}
   protocolExtensions
                                                                                                                    OPTIONAL,
    . . .
}
RadioLinkAdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-CauseLevel-RL-AdditionFailureFDD
                                                                                           TYPE CauseLevel-RL-AdditionFailureFDD
                                                            CRITICALITY
                                                                           ignore
    PRESENCE
              mandatory }|
   { ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                           PRESENCE optional },
    . . .
}
CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
   generalCause
                      GeneralCauseList-RL-AdditionFailureFDD,
                      RLSpecificCauseList-RL-AdditionFailureFDD,
   rLSpecificCause
    . . .
GeneralCauseList-RL-AdditionFailureFDD ::= SEQUENCE {
   cause
                                             Cause,
   iE-Extensions
                                             ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs } }
                                                                                                                            OPTIONAL,
    . . .
```

```
GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RLSpecificCauseList-RL-AdditionFailureFDD ::= SEOUENCE {
    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 ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { { 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 ::= SEQUENCE (SIZE (0..maxNrOfRLs-2)) OF ProtocolIE-Single-Container { {SuccessfulRL-
InformationResponse-RL-AdditionFailureFDD-IEs } }
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD
                                                                         CRITICALITY ignore TYPE SuccessfulRL-InformationResponse-RL-AdditionFailureFDD
        PRESENCE mandatory }
}
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID
                                        RL-ID,
    rL-Set-ID
                                        RL-Set-ID,
    uRA-Information
                                        URA-Information
                                                             OPTIONAL,
    sAI
                                        SAI,
    qA-Cell
                                        GA-Cell
                                                    OPTIONAL,
    qA-AccessPointPosition
                                        GA-AccessPointPosition
                                                                     OPTIONAL,
    received-total-wide-band-power
                                        Received-total-wide-band-power,
```

```
secondary-CCPCH-Info
                                        Secondary-CCPCH-Info
                                                                    OPTIONAL.
    dl-CodeInformation
                                        DL-CodeInformationList-RL-AdditionFailureFDD,
    diversitvIndication
                                        DiversitvIndication-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
    maximumDLTxPower
                                        DL-Power,
    minimumDLTxPower
                                        DL-Power,
    neighbouring-UMTS-CellInformation
                                        Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
                                        Neighbouring-GSM-CellInformation OPTIONAL,
    primaryCPICH-Power
                                        PrimaryCPICH-Power,
    pC-Preamble
                                        PC-Preamble,
    sRB-Delav
                                        SRB-Delay,
                                        ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-GA-CellAdditionalShapes
                                            CRITICALITY ignore EXTENSION GA-CellAdditionalShapes
                                                                                                        PRESENCE optional }
      ID id-DL-PowerBalancing-ActivationIndicator CRITICALITY ignore
                                                                            EXTENSION
                                                                                             DL-PowerBalancing-ActivationIndicator
                                                                                                                                      PRESENCE
optional},
    . . .
DL-CodeInformationList-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-AdditionFailureFDD }}
DL-CodeInformationListIEs-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-FDD-DL-CodeInformation CRITICALITY ignore TYPE FDD-DL-CodeInformation
                                                                                         PRESENCE mandatory }
}
DiversityIndication-RL-AdditionFailureFDD ::= CHOICE {
                                    Combining-RL-AdditionFailureFDD,
    combining
    nonCombining
                                    NonCombining-RL-AdditionFailureFDD
Combining-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    iE-Extensions
                                ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    . . .
}
CombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DCH-InformationResponse
                                            CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                        PRESENCE optional }
ļ
NonCombining-RL-AdditionFailureFDD ::= SEQUENCE {
```

```
dCH-InformationResponse DCH-InformationResponse,
iE-Extensions ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionFailureFDD-ExtIEs } OPTIONAL,
....
}
NonCombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
....
}
RadioLinkAdditionFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
....
}
```

<Not affected part is omitted>

9.3.4 Information Element Definitions

```
---
-- Information Element Definitions
_ _
RNSAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-IEs (2) }
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
IMPORTS
   maxCodeNumComp-1,
   maxNrOfFACHs,
   maxFACHCountPlus1,
   maxIBSEG,
   maxNoOfDSCHs,
   maxNoOfUSCHs,
   maxNoTFCIGroups,
   maxNoCodeGroups,
   maxNrOfDCHs,
   maxNrOfDL-Codes,
   maxNrOfDLTs,
   maxNrOfDLTsLCR,
   maxNrOfDPCHs,
   maxNrOfDPCHsLCR,
   maxNrOfErrors,
   maxNrOfFDDNeighboursPerRNC,
   maxNrOfMACcshSDU-Length,
```

maxNrOfNeighbouringRNCs, maxNrOfTDDNeighboursPerRNC, maxNrOfLCRTDDNeighboursPerRNC, maxNrOfTS, maxNrOfULTs, maxNrOfULTsLCR, maxNrOfGSMNeighboursPerRNC, maxRateMatching, maxNrOfPoints, maxNoOfRB, maxNrOfRLs, maxNrOfTFCs, maxNrOfTFs, maxCTFC, maxRNCinURA-1, maxNrOfSCCPCHs, maxTFCI1Combs, maxTFCI2Combs, maxTFCI2Combs-1, maxTGPS, maxTTI-Count, maxNoGPSTypes, maxNoSat, id-Allowed-Rate-Information, id-DPC-Mode-Change-SupportIndicator, id-Guaranteed-Rate-Information, id-Load-Value, id-Load-Value-IncrDecrThres, id-Neighbouring-GSM-CellInformation, id-Neighbouring-UMTS-CellInformationItem, id-neighbouring-LCR-TDD-CellInformation, id-OnModification, id-Received-Total-Wideband-Power-Value, id-Received-Total-Wideband-Power-Value-IncrDecrThres, id-SFNSFNMeasurementThresholdInformation, id-Transmitted-Carrier-Power-Value, id-Transmitted-Carrier-Power-Value-IncrDecrThres, id-TUTRANGPSMeasurementThresholdInformation, id-UL-Timeslot-ISCP-Value, id-UL-Timeslot-ISCP-Value-IncrDecrThres, maxNrOfLevels, maxNrOfMeasNCell, maxNrOfMeasNCell-1, id-MessageStructure, id-EnhancedDSCHPC, id-RestrictionStateIndicator, id-Rx-Timing-Deviation-Value-LCR, id-TypeOfError FROM RNSAP-Constants

```
Criticality,
ProcedureID,
ProtocolIE-ID,
TransactionID,
TriggeringMessage
FROM RNSAP-CommonDataTypes
```

```
ProtocolIE-Single-Container{},
ProtocolExtensionContainer{},
RNSAP-PROTOCOL-IES,
RNSAP-PROTOCOL-EXTENSION
FROM RNSAP-Containers;
```

<Not affected part is omitted>

-- C

```
Cause ::= CHOICE {
    radioNetwork
                         CauseRadioNetwork,
    transport
                        CauseTransport,
    protocol
                        CauseProtocol,
    misc
                        CauseMisc,
    . . .
ļ
CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure,
    om-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    . . .
CauseProtocol ::= ENUMERATED {
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified,
    abstract-syntax-error-falsely-constructed-message,
    . . .
ļ
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, combining-not-supported, reconfiguration-not-allowed, requested-configuration-not-supported, synchronisation-failure, requested-tx-diversity-mode-not-supported, measurement-temporaily-not-available, unspecified, invalid-CM-settings, reconfiguration-CFN-not-elapsed, number-of-DL-codes-not-supported, dedicated-transport-channel-type-not-supported, dl-shared-channel-type-not-supported, ul-shared-channel-type-not-supported, common-transport-channel-type-not-supported, ul-spreading-factor-not-supported, dl-spreading-factor-not-supported, cm-not-supported, transaction-not-supported-by-destination-node-b, rl-already-activated-or-alocated, . . . , number-of-UL-codes-not-supported, dpc-mode-change-not-supported, information-temporarily-not-available, information-provision-not-supported-for-the-object, cell-reserved-for-operator-use, power-balancing-status-not-compatible

```
CauseTransport ::= ENUMERATED {
    transport-resource-unavailable,
    unspecified,
    ...
}
```

<Not affected part is omitted>

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

DL-PowerBalancing-Information ::= SEQUENCE {
powerAdjustmentType PowerAdjustmentType,
dLReferencePower DL-Power OPTI

dLReferencePower	DL-Power	OPTIONAL,	
This IE shall be present	if Power Adjustment	Type IE equals to	'Common'
dLReferencePowerList-DL-PC-R	qst DL-Reference	ePowerInformationL:	Ist OPTIONAL,
This IE shall be present	if Power Adjustment	Type IE equals to	'Individual'

maxAdjustmentStep MaxAdjustmentStep OPTIONAL,
This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
adjustmentPeriod AdjustmentPeriod OPTIONAL,
This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
adjustmentRatio ScaledAdjustmentRatio OPTIONAL,
This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
DL-PowerBalancing-Information-Extles RNSAP-PROTOCOL-EXTENSION ::= {
DL-ReferencePowerInformationList ::= SEQUENCE (SIZE (1maxNrOfRLs)) OF DL-ReferencePowerInformationItem DL-ReferencePowerInformationItem ::= SEQUENCE {
rL-ID RL-ID,
dl-Reference-Power DL-Power,
iE-Extensions ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs} } OPTIONAL,
DL-ReferencePowerInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-PowerBalancing-ActivationIndicator ::= ENUMERATED {
dL-PowerBalancing-Activated

<Not affected part is omitted>

9.3.6 Constant Definitions

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IMPORTS ProcedureCode. ProtocolIE-ID FROM RNSAP-CommonDataTypes; ___ -- Elementary Procedures ____ id-commonTransportChannelResourcesInitialisation ProcedureCode ::= 0id-commonTransportChannelResourcesRelease ProcedureCode ::= 1id-compressedModeCommand ProcedureCode ::= 2id-downlinkPowerControl ProcedureCode ::= 3id-downlinkPowerTimeslotControl ProcedureCode ::= 4ProcedureCode ::= 5 id-downlinkSignallingTransfer id-errorIndication ProcedureCode ::= 6 id-dedicatedMeasurementFailure ProcedureCode ::= 7 id-dedicatedMeasurementInitiation ProcedureCode ::= 8 id-dedicatedMeasurementReporting ProcedureCode ::= 9 id-dedicatedMeasurementTermination ProcedureCode ::= 10 ProcedureCode ::= 11 id-paging id-physicalChannelReconfiguration ProcedureCode ::= 12id-privateMessage ProcedureCode ::= 13 id-radioLinkAddition ProcedureCode ::= 14id-radioLinkCongestion ProcedureCode ::= 34 id-radioLinkDeletion ProcedureCode ::= 15 id-radioLinkFailure ProcedureCode ::= 16 id-radioLinkPreemption ProcedureCode ::= 17 id-radioLinkRestoration ProcedureCode ::= 18 id-radioLinkSetup ProcedureCode ::= 19 id-relocationCommit ProcedureCode ::= 20 id-synchronisedRadioLinkReconfigurationCancellation ProcedureCode ::= 21 id-synchronisedRadioLinkReconfigurationCommit ProcedureCode ::= 22id-synchronisedRadioLinkReconfigurationPreparation ProcedureCode ::= 23id-unSynchronisedRadioLinkReconfiguration ProcedureCode ::= 24id-uplinkSignallingTransfer ProcedureCode ::= 25 id-commonMeasurementFailure ProcedureCode ::= 26 id-commonMeasurementInitiation ProcedureCode ::= 27 id-commonMeasurementReporting ProcedureCode ::= 28 id-commonMeasurementTermination ProcedureCode ::= 29id-informationExchangeFailure ProcedureCode ::= 30 id-informationExchangeInitiation ProcedureCode ::= 31 id-informationReporting ProcedureCode ::= 32 id-informationExchangeTermination ProcedureCode ::= 33

__ ***********************

---- Lists

___ _

maxCodeNumComp-1	INTEGER ::= 255
maxRateMatching	INTEGER ::= 256
maxNoCodeGroups	INTEGER ::= 256
maxNoOfDSCHs	INTEGER ::= 10
maxNoOfDSCHsLCR	INTEGER ::= 10
maxNoOfRB	INTEGER ::= 32
maxNoOfUSCHs	INTEGER ::= 10
maxNoOfUSCHsLCR	INTEGER ::= 10
maxNoTFCIGroups	INTEGER ::= 256
maxNrOfTFCs	INTEGER ::= 1024
maxNrOfTFs	INTEGER ::= 32
maxNrOfCCTrCHs	INTEGER ::= 16
maxNrOfCCTrCHsLCR	INTEGER ::= 16
maxNrOfDCHs	INTEGER ::= 128
maxNrOfDL-Codes	INTEGER ::= 8
maxNrOfDPCHs	INTEGER ::= 240
maxNrOfDPCHsLCR	INTEGER ::= 240
maxNrOfErrors	INTEGER ::= 256
maxNrOfMACcshSDU-Length	INTEGER ::= 16
maxNrOfPoints	INTEGER ::= 15
maxNrOfRLs	INTEGER ::= 16
maxNrOfRLSets	INTEGER ::= maxNrOfRLs
maxNrOfRLs-1	INTEGER ::= 15 maxNrOfRLs - 1
maxNrOfRLs-2	INTEGER ::= 14 maxNrOfRLs - 2
maxNrOfULTs	INTEGER ::= 15
maxNrOfULTsLCR	INTEGER ::= 6
maxNrOfDLTs	INTEGER ::= 15
maxNrOfDLTsLCR	INTEGER ::= 6
maxRNCinURA-1	INTEGER ::= 15
maxTTI-Count	INTEGER ::= 4
maxCTFC	INTEGER ::= 16777215
maxNrOfNeighbouringRNCs	INTEGER ::= 10
maxNrOfFDDNeighboursPerRNC	INTEGER ::= 256
maxNrOfGSMNeighboursPerRNC	INTEGER ::= 256
maxNrOfTDDNeighboursPerRNC	INTEGER ::= 256
maxNrOfFACHs	INTEGER ::= 8
maxNrOfLCRTDDNeighboursPerRNC	INTEGER ::= 256
maxFACHCountPlus1	INTEGER ::= 10
maxIBSEG	INTEGER ::= 16
maxNrOfSCCPCHs	INTEGER ::= 8
maxTFCI1Combs	INTEGER ::= 512
maxTFCI2Combs	INTEGER ::= 1024
maxTFCI2Combs-1	INTEGER ::= 1023
maxTGPS	INTEGER ::= 6
maxNrOfTS	INTEGER ::= 15
maxNrOfLevels	INTEGER ::= 256
maxNrOfTsLCR	INTEGER ::= 6
maxNoSat	INTEGER ::= 16
maxNoGPSTypes	INTEGER ::= 8

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maxNrOfMeasNCellINTEGER ::= 96maxNrOfMeasNCell-1INTEGER ::= 95 -- maxNrOfMeasNCell - 1

---- IEs

id-AllowedOueuingTime ProtocolIE-ID ::= 4 id-Allowed-Rate-Information ProtocolIE-ID ::= 42 id-BindingID ProtocolIE-ID ::= 5 id-C-ID ProtocolIE-ID ::= 6 id-C-RNTI ProtocolIE-ID ::= 7 id-CFN ProtocolIE-ID ::= 8 id-CN-CS-DomainIdentifier ProtocolIE-ID ::= 9 id-CN-PS-DomainIdentifier ProtocolIE-ID ::= 10 id-Cause ProtocolIE-ID ::= 11 id-CriticalityDiagnostics ProtocolIE-ID ::= 20 id-D-RNTT ProtocolIE-ID ::= 21 id-D-RNTI-ReleaseIndication ProtocolTE-TD := 22id-DCHs-to-Add-FDD ProtocolIE-ID ::= 26 id-DCHs-to-Add-TDD ProtocolIE-ID ::= 27 id-DCH-DeleteList-RL-ReconfPrepFDD ProtocolIE-ID ::= 30 id-DCH-DeleteList-RL-ReconfPrepTDD ProtocolIE-ID ::= 31 id-DCH-DeleteList-RL-ReconfRqstFDD ProtocolIE-ID ::= 32 id-DCH-DeleteList-RL-ReconfRqstTDD ProtocolIE-ID ::= 33 id-DCH-FDD-Information ProtocolIE-ID ::= 34 id-DCH-TDD-Information ProtocolIE-ID ::= 35 id-FDD-DCHs-to-Modify ProtocolIE-ID ::= 39 id-TDD-DCHs-to-Modify ProtocolIE-ID ::= 40 id-DCH-InformationResponse ProtocolIE-ID ::= 43 id-DCH-Rate-InformationItem-RL-CongestInd ProtocolIE-ID ::= 38 id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ProtocolIE-ID ::= 44 id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD ProtocolIE-ID ::= 45 id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ProtocolIE-ID ::= 46 id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD ProtocolIE-ID ::= 47 id-DL-CCTrCH-InformationListIE-PhyChReconfRgstTDD ProtocolIE-ID ::= 48 id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD ProtocolIE-ID ::= 49 id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD ProtocolIE-ID ::= 50 id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 51 id-DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD ProtocolTE-TD := 52id-DL-CCTrCH-InformationList-RL-SetupRqstTDD ProtocolIE-ID ::= 53 id-FDD-DL-CodeInformation ProtocolIE-ID ::= 54 id-DL-DPCH-Information-RL-ReconfPrepFDD ProtocolIE-ID ::= 59 id-DL-DPCH-Information-RL-SetupRqstFDD ProtocolIE-ID ::= 60 id-DL-DPCH-Information-RL-ReconfRqstFDD ProtocolIE-ID ::= 61 id-DL-DPCH-InformationItem-PhyChReconfRqstTDD ProtocolIE-ID ::= 62 id-DL-DPCH-InformationItem-RL-AdditionRspTDD ProtocolIE-ID ::= 63 id-DL-DPCH-InformationItem-RL-SetupRspTDD ProtocolIE-ID ::= 64 id-DLReferencePower ProtocolIE-ID ::= 67

id-DLReferencePowerList-DL-PC-Rqst id-DL-ReferencePowerInformation-DL-PC-Rost id-DPC-Mode id-DRXCycleLengthCoefficient id-DedicatedMeasurementObjectType-DM-Rprt id-DedicatedMeasurementObjectType-DM-Rgst id-DedicatedMeasurementObjectType-DM-Rsp id-DedicatedMeasurementType id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD id-Guaranteed-Rate-Information id-IMST id-L3-Information id-AdjustmentPeriod id-MaxAdjustmentStep id-MeasurementFilterCoefficient id-MessageStructure id-MeasurementID id-Neighbouring-GSM-CellInformation id-Neighbouring-UMTS-CellInformationItem id-PagingArea-PagingRgst id-FACH-FlowControlInformation id-Permanent-NAS-UE-Identity id-PowerAdjustmentType id-RANAP-RelocationInformation id-RL-Information-PhyChReconfRqstFDD id-RL-Information-PhyChReconfRqstTDD id-RL-Information-RL-AdditionRgstFDD id-RL-Information-RL-AdditionRgstTDD id-RL-Information-RL-DeletionRgst id-RL-Information-RL-FailureInd id-RL-Information-RL-ReconfPrepFDD id-RL-Information-RL-RestoreInd id-RL-Information-RL-SetupRqstFDD id-RL-Information-RL-SetupRgstTDD id-RL-InformationItem-RL-CongestInd id-RL-InformationItem-DM-Rprt id-RL-InformationItem-DM-Rgst id-RL-InformationItem-DM-Rsp id-RL-InformationItem-RL-PreemptRequiredInd id-RL-InformationItem-RL-SetupRgstFDD id-RL-InformationList-RL-CongestInd id-RL-InformationList-RL-AdditionRqstFDD id-RL-InformationList-RL-DeletionRqst id-RL-InformationList-RL-PreemptRequiredInd id-RL-InformationList-RL-ReconfPrepFDD id-RL-InformationResponse-RL-AdditionRspTDD id-RL-InformationResponse-RL-ReconfReadyTDD id-RL-InformationResponse-RL-SetupRspTDD id-RL-InformationResponseItem-RL-AdditionRspFDD id-RL-InformationResponseItem-RL-ReconfReadyFDD

ProtocolIE-ID ::= 68 ProtocolIE-ID ::= 69 ProtocolIE-ID ::= 12 ProtocolIE-ID ::= 70 ProtocolIE-ID ::= 71 ProtocolIE-ID ::= 72 ProtocolIE-ID ::= 73 ProtocolIE-ID ::= 74 ProtocolIE-ID ::= 82 ProtocolIE-ID ::= 83 ProtocolIE-ID ::= 41 ProtocolIE-ID ::= 84 ProtocolIE-ID ::= 85 ProtocolIE-ID ::= 90 ProtocolIE-ID ::= 91 ProtocolIE-ID ::= 92 ProtocolIE-ID ::= 57 ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 95 ProtocolTE-TD := 102ProtocolIE-ID ::= 103 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 109 ProtocolIE-ID ::= 110 ProtocolIE-ID ::= 111 ProtocolIE-ID ::= 112 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 114 ProtocolIE-ID ::= 115 ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 118 ProtocolIE-ID ::= 119 ProtocolIE-ID ::= 55 ProtocolIE-ID ::= 120 ProtocolIE-ID ::= 121 ProtocolIE-ID ::= 122 ProtocolIE-ID ::= 2 ProtocolIE-ID ::= 123 ProtocolTE-TD ::= 56 ProtocolIE-ID ::= 124 ProtocolIE-ID ::= 125 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 126 ProtocolIE-ID ::= 127 ProtocolIE-ID ::= 128 ProtocolIE-ID ::= 129 ProtocolIE-ID ::= 130 ProtocolIE-ID ::= 131

id-RL-InformationResponseItem-RL-ReconfRspFDD id-RL-InformationResponseItem-RL-SetupRspFDD id-RL-InformationResponseList-RL-AdditionRspFDD id-RL-InformationResponseList-RL-ReconfReadyFDD id-RL-InformationResponseList-RL-ReconfRspFDD id-RL-InformationResponse-RL-ReconfRspTDD id-RL-InformationResponseList-RL-SetupRspFDD id-RL-ReconfigurationFailure-RL-ReconfFail id-RL-Set-InformationItem-DM-Rprt id-RL-Set-InformationItem-DM-Rgst id-RL-Set-InformationItem-DM-Rsp id-RL-Set-Information-RL-FailureInd id-RL-Set-Information-RL-RestoreInd id-ReportCharacteristics id-Reporting-Object-RL-FailureInd id-Reporting-Object-RL-RestoreInd id-S-RNTI id-SAI id-SRNC-ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD id-TransportBearerID id-TransportBearerRequestIndicator id-TransportLaverAddress id-TypeOfError id-UC-ID id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD id-UL-CCTrCH-InformationList-RL-SetupRgstTDD id-UL-CCTrCH-InformationListIE-PhvChReconfRgstTDD id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD id-UL-DPCH-Information-RL-ReconfPrepFDD id-UL-DPCH-Information-RL-ReconfRqstFDD id-UL-DPCH-Information-RL-SetupRqstFDD id-UL-DPCH-InformationItem-PhyChReconfRqstTDD id-UL-DPCH-InformationItem-RL-AdditionRspTDD id-UL-DPCH-InformationItem-RL-SetupRspTDD id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD id-UL-SIRTarget id-URA-Information id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD id-Active-Pattern-Sequence-Information id-AdjustmentRatio id-CauseLevel-RL-AdditionFailureFDD id-CauseLevel-RL-AdditionFailureTDD

id-CauseLevel-RL-ReconfFailure

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ProtocolIE-ID ::= 132 ProtocolIE-ID ::= 133 ProtocolIE-ID ::= 134 ProtocolIE-ID ::= 135 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 28 ProtocolIE-ID ::= 137 ProtocolIE-ID ::= 141 ProtocolIE-ID ::= 143 ProtocolIE-ID ::= 144 ProtocolIE-ID ::= 145 ProtocolIE-ID ::= 146 ProtocolIE-ID ::= 147 ProtocolIE-ID ::= 152 ProtocolIE-ID ::= 153 ProtocolIE-ID ::= 154 ProtocolIE-ID ::= 155 ProtocolIE-ID ::= 156 ProtocolIE-ID ::= 157 ProtocolIE-ID ::= 159 ProtocolIE-ID ::= 160 ProtocolIE-ID ::= 163 ProtocolIE-ID ::= 164 ProtocolIE-ID ::= 165 ProtocolIE-ID ::= 140 ProtocolIE-ID ::= 166 ProtocolIE-ID ::= 167 ProtocolIE-ID ::= 169 ProtocolIE-ID ::= 171 ProtocolIE-ID ::= 172 ProtocolIE-ID ::= 173 ProtocolIE-ID ::= 174 ProtocolIE-ID ::= 175 ProtocolIE-ID ::= 176 ProtocolIE-ID ::= 177 ProtocolIE-ID ::= 178 ProtocolIE-ID ::= 179 ProtocolIE-ID ::= 180 ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 182 ProtocolIE-ID ::= 183 ProtocolTE-TD ::= 184ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 188 ProtocolIE-ID ::= 189 ProtocolIE-ID ::= 190 ProtocolIE-ID ::= 193 ProtocolIE-ID ::= 194 ProtocolIE-ID ::= 197 ProtocolIE-ID ::= 198 ProtocolIE-ID ::= 199

id-CauseLevel-RL-SetupFailureFDD id-CauseLevel-RL-SetupFailureTDD id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifvItem-RL-ReconfRgstTDD id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadvTDD id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD id-DSCHs-to-Add-TDD id-DSCHs-to-Add-FDD id-DSCH-DeleteList-RL-ReconfPrepTDD id-DSCH-Delete-RL-ReconfPrepFDD id-DSCH-FDD-Information id-DSCH-InformationListIE-RL-AdditionRspTDD id-DSCH-InformationListIEs-RL-SetupRspTDD id-DSCH-TDD-Information id-DSCH-FDD-InformationResponse id-DSCH-Information-RL-SetupRqstFDD id-DSCH-ModifyList-RL-ReconfPrepTDD id-DSCH-Modify-RL-ReconfPrepFDD id-DSCHsToBeAddedOrModified-FDD id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD id-EnhancedDSCHPC id-EnhancedDSCHPCIndicator id-GA-Cell id-GA-CellAdditionalShapes id-SSDT-CellIDforEDSCHPC id-Transmission-Gap-Pattern-Sequence-Information id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD id-USCHs-to-Add id-USCH-DeleteList-RL-ReconfPrepTDD id-USCH-InformationListIE-RL-AdditionRspTDD id-USCH-InformationListIEs-RL-SetupRspTDD id-USCH-Information id-USCH-ModifyList-RL-ReconfPrepTDD id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD id-DL-Physical-Channel-Information-RL-SetupRqstTDD id-UL-Physical-Channel-Information-RL-SetupRgstTDD

ProtocolIE-ID ::= 200 ProtocolIE-ID ::= 201 ProtocolIE-ID ::= 205 ProtocolIE-ID ::= 206 ProtocolIE-ID ::= 207 ProtocolIE-ID ::= 208 ProtocolIE-ID ::= 209 ProtocolIE-ID ::= 210 ProtocolIE-ID ::= 212 ProtocolIE-ID ::= 213 ProtocolIE-ID ::= 214 ProtocolIE-ID ::= 215 ProtocolIE-ID ::= 216 ProtocolIE-ID ::= 217 ProtocolIE-ID ::= 218 ProtocolIE-ID ::= 219 ProtocolIE-ID ::= 220 ProtocolIE-ID ::= 221 ProtocolIE-ID ::= 222 ProtocolIE-ID ::= 223 ProtocolIE-ID ::= 226 ProtocolIE-ID ::= 227 ProtocolIE-ID ::= 228 ProtocolIE-ID ::= 229 ProtocolIE-ID ::= 230 ProtocolIE-ID ::= 29 ProtocolIE-ID ::= 34 ProtocolIE-ID ::= 232 ProtocolIE-ID ::= 3 ProtocolIE-ID ::= 35 ProtocolIE-ID ::= 255 ProtocolIE-ID ::= 256 ProtocolIE-ID ::= 257 ProtocolIE-ID ::= 258 ProtocolIE-ID ::= 259 ProtocolIE-ID ::= 260 ProtocolIE-ID ::= 261 ProtocolIE-ID ::= 262 ProtocolIE-ID ::= 263 ProtocolIE-ID ::= 264 ProtocolIE-ID ::= 265 ProtocolTE-TD ::= 266ProtocolIE-ID ::= 267 ProtocolIE-ID ::= 268 ProtocolIE-ID ::= 269 ProtocolIE-ID ::= 270 ProtocolIE-ID ::= 271 ProtocolIE-ID ::= 272 ProtocolIE-ID ::= 273 ProtocolIE-ID ::= 274 ProtocolIE-ID ::= 275

id-ClosedLoopModel-SupportIndicator id-ClosedLoopMode2-SupportIndicator id-STTD-SupportIndicator id-CFNReportingIndicator id-CNOriginatedPage-PagingRgst id-InnerLoopDLPCStatus id-PropagationDelay id-RxTimingDeviationForTA id-timeSlot-ISCP id-CCTrCH-InformationItem-RL-FailureInd id-CCTrCH-InformationItem-RL-RestoreInd id-CommonMeasurementAccuracy id-CommonMeasurementObjectType-CM-Rprt id-CommonMeasurementObjectType-CM-Rqst id-CommonMeasurementObjectType-CM-Rsp id-CommonMeasurementType id-CongestionCause id-SFN id-SFNReportingIndicator id-InformationExchangeID id-InformationExchangeObjectType-InfEx-Rprt id-InformationExchangeObjectType-InfEx-Rqst id-InformationExchangeObjectType-InfEx-Rsp id-InformationReportCharacteristics id-InformationType id-neighbouring-LCR-TDD-CellInformation id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRgstTDD id-RL-LCR-InformationResponse-RL-SetupRspTDD id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD id-USCH-LCR-InformationListIEs-RL-SetupRspTDD id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRgstTDD id-RL-LCR-InformationResponse-RL-AdditionRspTDD id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadvTDD id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD id-UL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD id-DL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD id-timeSlot-ISCP-LCR-List-DL-PC-Rqst-TDD id-TSTD-Support-Indicator-RL-SetupRqstTDD id-RestrictionStateIndicator

ProtocolIE-ID ::= 276 ProtocolIE-ID ::= 277 ProtocolIE-ID ::= 279 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24 ProtocolIE-ID ::= 25 ProtocolIE-ID ::= 36 ProtocolIE-ID ::= 37 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 280 ProtocolIE-ID ::= 281 ProtocolIE-ID ::= 282 ProtocolIE-ID ::= 283 ProtocolIE-ID ::= 284 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 285 ProtocolIE-ID ::= 286 ProtocolIE-ID ::= 287 ProtocolIE-ID ::= 288 ProtocolIE-ID ::= 289 ProtocolIE-ID ::= 290 ProtocolIE-ID ::= 291 ProtocolIE-ID ::= 292 ProtocolIE-ID ::= 58 ProtocolIE-ID ::= 65 ProtocolIE-ID ::= 66 ProtocolIE-ID ::= 75 ProtocolIE-ID ::= 76 ProtocolIE-ID ::= 77 ProtocolIE-ID ::= 78 ProtocolIE-ID ::= 79 ProtocolIE-ID ::= 80 ProtocolIE-ID ::= 81 ProtocolIE-ID ::= 86 ProtocolIE-ID ::= 87 ProtocolIE-ID ::= 88 ProtocolIE-ID ::= 89 ProtocolIE-ID ::= 94 ProtocolIE-ID ::= 96 ProtocolTE-TD ::= 97ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 101 ProtocolIE-ID ::= 104 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 106 ProtocolIE-ID ::= 138 ProtocolIE-ID ::= 139 ProtocolIE-ID ::= 142

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id-Load-Value	ProtocolIE-ID :	:= 233
id-Load-Value-IncrDecrThres	ProtocolIE-ID :	:= 234
id-OnModification	ProtocolIE-ID :	:= 235
id-Received-Total-Wideband-Power-Value	ProtocolIE-ID :	:= 236
id-Received-Total-Wideband-Power-Value-IncrDecrThres	ProtocolIE-ID :	:= 237
id-SFNSFNMeasurementThresholdInformation	ProtocolIE-ID :	:= 238
id-Transmitted-Carrier-Power-Value	ProtocolIE-ID :	:= 239
id-Transmitted-Carrier-Power-Value-IncrDecrThres	ProtocolIE-ID :	:= 240
id-TUTRANGPSMeasurementThresholdInformation	ProtocolIE-ID :	:= 241
id-UL-Timeslot-ISCP-Value	ProtocolIE-ID :	:= 242
id-UL-Timeslot-ISCP-Value-IncrDecrThres	ProtocolIE-ID :	:= 243
id-Rx-Timing-Deviation-Value-LCR	ProtocolIE-ID :	:= 293
id-DPC-Mode-Change-SupportIndicator	ProtocolIE-ID :	:= 19
id-DL-PowerBalancing-Information	ProtocolIE-ID :	:= 296
id-DL-PowerBalancing-ActivationIndicator	ProtocolIE-ID :	:= 297

END

3GPP TSG-RAN3 Meeting #27 Orlando, Florida, USA, 18th – 22nd February 2002

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	/REQUEST messages can be trigger of restarting power balancing.						
Consequences if not approved:	# If this CR is not approved, Power balancing might not work effectively during the period between RL Reconfiguration procedure and updating reference power of power balancing, i.e. reception of DL POWER CONTROL REQUEST message.						
	Impact Analysis:						
	Impact assessment towards the previous version of the specification (same release):						
	No previous version.						
	Compatibility Analysis towards previous release:						
	No impact.						
Clauses affected:	8 8.3.4.2, 8.3.4.3, 8.3.4.4, 8.3.7.2, 8.3.7.3, 8.3.7.4, 9.1.11.1, 9.1.12.1, 9.1.16.1,						
	9.1.17.1, 9.2.1.5, 9.2.2.x, 9.3.3, 9.3.4 and 9.3.6						
Other specs affected:	 X Other core specifications X CR497 on TS 25.433 V4.3.0 (REL-4) Test specifications 						

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Other comments:

How to create CRs using this form: Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G_Specs/CRs.htm</u>. Below is a brief summary:

O&M Specifications

- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.3.4 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 Radio Link(s) related to one UE-UTRAN connection within a DRNS.

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

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

8.3.4.2 Successful Operation



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

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

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

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

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

DCH Modification:

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

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

- If the *DCH Specific Info* IE includes the *Transport Format Set* IE for the UL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCH Specific Info* IE includes the *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- [FDD If, in the DCH Specific Info IE, the DRAC Control IE is present and set to "requested" for at least one DCH and if the DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION READY message the Secondary CCPCH Info IE for the FACH where the DRAC information is sent, for each Radio Link established in a cell where DRAC is active. If the DRNS does not support DRAC, DRNC shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the *DCH Specific Info* IE includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH.]
- [TDD If the *DCH Specific Info* IE includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH.]
- If the *DCH Specific Info* IE includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:
 - If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate in the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.
- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate in the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.

DCH Addition:

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

- The DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.
- If the *DCHs to Add* IE includes a *DCHs to Add* IE with multiple *DCH Specific Info* IEs then the DRNS shall treat the DCHs in the *DCHs to Add* IE as a set of co-ordinated DCHs. The DRNS shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [4].]
- [FDD For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [4]. [FDD If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [4]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used for the QE, ref. [4].]
- The DRNS should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

- The DRNS shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The DRNS shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The DRNS shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if at least one DSCH or USCH exists in the new configuration.]
- [FDD If the *DRAC Control* IE is set to "requested" in the *DCH Specific Info* IE for at least one DCH and if the DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION READY message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link supported by a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]
- If the *DCH Specific Info* IE includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:
 - If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE, the DRNS shall not limit the user rate of the downlink of the DCH.
- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.

DCH Deletion:

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

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

Physical Channel Modification:

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

- [FDD If the *UL DPCH Information* IE includes the *Uplink Scrambling Code* IE, the DRNS shall apply this Uplink Scrambling Code to the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *Min UL Channelisation Code Length* IE, the DRNS shall apply the new Min UL Channelisation Code Length in the new configuration. The DRNS shall apply the contents of the *Max Number of UL DPDCHs* IE (if it is included) in the new configuration.]
- [FDD If the *UL DPCH Information* IE includes the *TFCS* IE, the DRNS shall use the *TFCS* IE for the UL when reserving resources for the uplink of the new configuration. The DRNS shall apply the new TFCS in the Uplink of the new configuration.]

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

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

- [FDD If the DL DPCH Information IE includes Number of DL Channelisation Codes IE, the DRNS shall allocate given number of Downlink Channelisation Codes per Radio Link and apply the new Downlink Channelisation Code(s) to the new configuration. Each Downlink Channelisation Code allocated for the new configuration shall be included as a FDD DL Channelisation Code Number IE in the RADIO LINK RECONFIGURATION READY message when sent to the SRNC. If some Transmission Gap Pattern sequences using 'SF/2' method are already initialised in the DRNS, DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information IE* in the RADIO LINK READY message in case the DRNS selects to change the Scrambling code change method for one or more DL Channelisation Code.]
- [FDD When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to [8]. When *p* number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "*PhCH number 1*", the second to "*PhCH number 2*", and so on until the *p*th to "*PhCH number p*".]
- [FDD If the *DL DPCH Information* IE includes the *TFCS* IE, the DRNS shall use the *TFCS* IE for the DL when reserving resources for the downlink of the new configuration. The DRNS shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *DL DPCH Slot Format* IE, the DRNS shall apply the new slot format used in DPCH in DL.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE, the DRNS shall apply the new signalling mode of the TFCI.]
- [FDD If the *DL DPCH Information* IE includes the *Multiplexing Position* IE, the DRNS shall apply the new parameter to define whether fixed or flexible positions of transport channels shall be used in the physical channel.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to 'Used', the DRNS shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the DRNS shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

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

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

[TDD - UL/DL CCTrCH Modification]

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

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

- [TDD The DRNC shall include in the RADIO LINK RECONFIGURATION READY message DPCH information to be modified and the IEs modified if any of *Repetition Period* IE, *Repetition Length* IE, *TDD DPCH Offset* IE or timeslot information was modified. The DRNC shall include timeslot information and the IEs modified if any of [3.84Mcps TDD Midamble Shift and Burst Type IE, Time Slot IE], [1.28Mcps TDD Midamble Shift LCR IE, Time Slot LCR IE], TFCI Presence IE or Code information was modified. The DRNC shall include code information if [3.84Mcps TDD TDD Channelisation Code IE] and/or [1.28Mcps TDD TDD Channelisation Code LCR IE] was modified.]
- [1.28Mcps TDD If the *UL CCTrCH to Modify* IE includes the *UL SIR Target* IE, the DRNS shall use the value for the UL inner loop power control according [12] and [22] when the new configuration is being used.]

[TDD – UL/DL CCTrCH Addition]

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

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

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes a *DL CCTrCH to Add* IE, the DRNS shall set the TPC step size of that CCTrCH to the same value as the lowest numbered DL CCTrCH in the current configuration.]

[1.28Mcps TDD – The DRNS shall use the *UL SIR Target* IE in the *UL CCTrCH to Add* IE as the UL SIR value for the inner loop power control for this CCTrCH according [12] and [22] in the new configuration.]

[TDD – UL/DL CCTrCH Deletion]

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

SSDT Activation/Deactivation:

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

DL Power Control:

FDD - If the *RL Information* IE includes the *DL Reference Power* IEs and power balancing is active, DRNS shall update the reference power of the power balancing in the indicated RL(s), if updating of power balancing parameters by the RADIO LINK RECONFIGURATION PREPARE message is supported, at the CFN in the RADIO LINK RECONFIGURATION COMMIT message, according to subclause 8.3.15, using the *DL Reference Power* IE. If the CFN modulo the value of the *Adjustment Period* IE is not equal to 0, the power balancing continues with the old reference power until the end of the current adjustment period, and the updated reference power shall be used from the next adjustment period.

[FDD - If updating of power balancing parameters by the RADIO LINK RECONFIGURATION PREPARE message is supported by the DRNS, the DRNC shall include the *DL Power Balancing Updated Indicator* IE in the *RL Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]

DSCH Addition/Modification/Deletion:

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

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

[FDD - If the *DSCHs to Add* IE includes the *Enhanced DSCH PC* IE, the DRNS shall activate enhanced DSCH power control in accordance with ref. [10] subclause 5.2.2, if supported, using either:]

- [FDD the SSDT Cell Identity for EDSCHPC IE in the RL Information IE, if the SSDT Cell Identity IE is not included in the RL Information IE or]
- [FDD the SSDT Cell Identity IE in the RL Information IE, if both the SSDT Cell Identity IE and the SSDT Cell Identity for EDSCHPC are included in the RL Information IE.]

[FDD - together with the SSDT Cell Identity Length IE in UL DPCH Information IE, and Enhanced DSCH PC IE, in the new configuration.]

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

- [FDD If the *DSCH to Modify* IE includes any *DSCH Info* IEs, then the DRNS shall treat them each as follows:]
 - [FDD If the *DSCH Info* IE includes any of the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE or *TrCH Source Statistics Descriptor* IE, the DNRS shall use them to update the set of DSCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths.]
 - [FDD If the *DSCH Info* IE includes any of the *Transport Format Set* IE or *BLER* IE, the DRNS shall apply the parameters to the new configuration.]
- [FDD If the *DSCH to Modify* IE includes the *PDSCH RL ID* IE, then the DRNS shall use it as the new DSCH RL identifier.]
- [FDD If the *DSCH to Modify* IE includes the *Transport Format Combination Set* IE, then the DRNS shall use it as the new Transport Format Combination Set associated with the DSCH.]
- [TDD If the *DSCHs to Modify* IE includes the *CCTrCH Id* IE, then the DRNS shall map the DSCH onto the referenced DL CCTrCH.]
- [TDD If the *DSCHs to Modify* IE includes any of the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE or *TrCH Source Statistics Descriptor* IE, the DNRS shall use them to update the set of DSCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths.]
- [TDD If the *DSCHs to Modify* IE includes any of the *Transport Format Set* IE or *BLER* IE, the DRNS shall apply the parameters to the new configuration.]
- [TDD The DRNC shall include the Secondary CCPCH Info TDD IE in the RADIO LINK RECONFIGURATION READY message if a DSCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the Secondary CCPCH Info TDD IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]
- [FDD If the *DSCHs to Modify* IE includes the *Enhanced DSCH PC Indicator* IE set to "Enhanced DSCH PC Active in the UE ", the DRNS shall activate enhanced DSCH power control in accordance with ref. [10] subclause 5.2.2, if supported, using either:]
 - [FDD the SSDT Cell Identity for EDSCHPC IE in RL Information IE, if the SSDT Cell Identity IE is not included in the RL Information IE or]
 - [FDD the SSDT Cell Identity IE in the RL Information IE, if both the SSDT Cell Identity IE and the SSDT Cell Identity for EDSCHPC are included in the RL Information IE.]

[FDD - together with the SSDT Cell Identity Length IE in UL DPCH Information IE, and Enhanced DSCH PC IE, in the new configuration.]

- [FDD - If the *DSCHs to Modify* IE includes the *Enhanced DSCH PC Indicator* IE set to "Enhanced DSCH PC not Active in the UE", the DRNS shall deactivate enhanced DSCH power control 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.

[TDD] USCH Addition/Modification/Deletion

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

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

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

- If the USCH to Modify IE includes any of the Allocation/Retention Priority IE, Scheduling Priority Indicator IE or TrCH Source Statistics Descriptor IE, the DNRS shall use them to update the set of USCH Priority classes.
- If the USCH to Modify IE includes any of the CCTrCH Id IE, Transport Format Set IE, BLER IE or RB Info IE, the DRNS shall apply the parameters to the new configuration.
- [TDD The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if a USCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

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

General

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

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

Any allowed rate for the uplink of a DCH provided for the old configuration will not be valid for the new configuration. If the DRNS need to limit the user rate in the uplink of a DCH in the new configuration for a Radio Link, the DRNC shall include the *Allowed UL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK RECONFIGURATION READY message for this Radio Link.

Any allowed rate for the downlink of a DCH provided for the old configuration will not be valid for the new configuration. If the DRNS need to limit the user rate in the downlink of a DCH in the new configuration for a Radio Link, the DRNC shall include the *Allowed DL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK RECONFIGURATION READY message for this Radio Link.

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 <u>READYRESPONSE</u> message. The DRNS shall not transmit with a higher power than indicated by the *Maximum DL TX Power IE* or lower than indicated by the *Minimum DL TX Power IE* on any DL DPCH of the RL [FDD – except during compressed mode, when the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

8.3.4.3 Unsuccessful Operation



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

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

If the requested Synchronised Radio Link Reconfiguration Preparation 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.

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;
- Number of DL Codes not Supported;
- Number of UL Codes not Supported;
- Dedicated Transport Channel Type not Supported;
- DL Shared Channel Type not Supported;
- [TDD UL Shared Channel Type not Supported];
- [FDD UL Spreading Factor not Supported];
- [FDD DL Spreading Factor not Supported];
- CM not Supported.

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.

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

[FDD - If the *DSCHs to Add* IE includes *Enhanced DSCH PC* IE and *DSCH to Modify* IE include the *Enhanced DSCH PC Indicator* IE set to "Enhanced DSCH PC not Active in the UE", then the DRNS shall deactivate enhanced DSCH power control in the new configuration.]

[FDD - If both the *DSCHs to Add* IE and the *DSCH to Modify* IE include *Enhanced DSCH PC* IE, then the DRNS shall ignore the *Enhanced DSCH PC* IE in the *DSCH to Add* IE.]

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Modify* IE or *DCHs to Add* IE with multiple *DCH Specific Info* IEs, and if the DCHs in the *DCHs to Modify* IE or *DCHs to Add* IE do not have the same *Transmission Time Interval* IE in the *Semi-static Transport Format Information* IE, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the *RL Information* IE includes the *DL Reference Power* IEs, but the power balancing is not active in the indicated RL(s), the DRNS shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the DRNC shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Common" in the existing RL(s) but the *RL Information* IE includes more than one *DL Reference Power* IEs, the DRNS shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the DRNC shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

<Not affected part is omitted>

8.3.7 Unsynchronised Radio Link Reconfiguration

8.3.7.1 General

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

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

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

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

8.3.7.2 Successful Operation



Figure 14: 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 the time corresponding to the value of the *Allowed Queuing Time* IE before starting to execute the request.

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

DCH Modification:

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

- If the *DCHs to Modify* IE includes multiple *DCH Specific Info* IEs, then the DRNS shall treat the DCHs 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 *DCHs to Modify* IE includes the *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be modified, the DRNS shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs to Modify* IE includes the *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs to Modify* IE includes the *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCH Specific Info* IE 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 *DCH Specific Info* IE 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 *DCH Specific Info* IE includes the *Frame Handling Priority* IE, 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.
- [FDD If the DRAC Control IE is present and set to "requested" in DCH Specific Info IE for at least one DCH, and if the DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION RESPONSE message the Secondary CCPCH Info IE for the FACH where the DRAC information is sent, for each Radio Link supported by a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK RECONFIGURATION RESPONSE message.]
- [TDD If the *DCH Specific Info* IE includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH.]

- [TDD If the *DCH Specific Info* IE includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH.]
- If the *DCH Specific Info* IE includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:
 - If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate in the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.
- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user in the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.

DCH Addition:

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

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

- If the *DCH Specific Info* IE includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:
 - If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.
- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.

DCH Deletion:

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

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

Physical Channel Modification:

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

- [FDD - If the *UL DPCH Information* IE includes the *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 a *DL DPCH Information* IE, then the DRNS shall apply the parameters to the new configuration as follows:]

- [FDD If the *DL DPCH Information* IE includes the *TFCS* IE for the DL, the DRNS shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE for the DL, the DRNS shall apply the new TFCI Signalling Mode in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to 'Used', the DRNS shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the DRNS shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION 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 This new Compressed Mode Configuration shall be valid in the DRNS until the next Compressed Mode Configuration is configured in the DRNS or last Radio Link is deleted.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern* Sequence Information IE, and if the Downlink Compressed Mode Method in one or more Transmission Gap Pattern Sequence within the *Transmission Gap Pattern Sequence Information* IE is set to 'SF/2', the DRNC shall include the DL Code Information IE in the RADIO LINK RECONFIGURATION RESPONSE message, without changing any of the DL Channelisation Codes or DL Scrambling Codes, indicating for each DL Channelisation Code whether the alternative scrambling code shall be used or not.]

[TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH Information to modify* IEs or */DL CCTrCH Information to modify* IEs and it includes *TFCS* IE, the DRNS shall apply the included *TFCS* IE as the new value to the referenced CCTrCH.]

[TDD – UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH Information to delete* IEs or *DL CCTrCH Information to delete* IEs, the DRNS shall remove the referenced CCTrCH in the new configuration.]

DL Power Control:

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *DL Reference Power Information* IE and the power balancing is active, the DRNS shall update the reference power of the power balancing in the indicated RL(s), if updating of power balancing parameters by the RADIO LINK <u>RECONFIGURATION REQUEST message is</u> supported, using the *DL Reference Power Information* IE in the RADIO LINK RECONFIGURATION REQUEST message. The updated reference power shall be used from the next adjustment period.]

[FDD – If updating of power balancing parameters by the RADIO LINK RECONFIGURATION REQUEST message is supported by the DRNS, the DRNC shall include the *DL Power Balancing Updated Indicator* IE in the *RL Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

General:

The DRNS shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE for any Transport Channel being added, or any Transport Channel being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE. The detailed frame protocol handling during transport bearer replacement is described in [4], subclause 5.10.1.

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

In case of a Radio Link being combined with another Radio Link within the DRNS, the DRNC shall return the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message only for one of the combined Radio Links.

Any allowed rate for the uplink of a DCH provided for the old configuration will not be valid for the new configuration. If the DRNS need to limit the user rate in the uplink of a DCH in the new configuration for a Radio Link, the DRNC shall include the *Allowed UL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK RECONFIGURATION RESPONSE message for this Radio Link.

Any allowed rate for the downlink of a DCH provided for the old configuration will not be valid for the new configuration. If the DRNS need to limit the user rate in the downlink of a DCH in the new configuration for a Radio Link, the DRNC shall include the *Allowed DL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK RECONFIGURATION RESPONSE message for this Radio Link.

If the requested modifications are allowed by the DRNS, and if the DRNS has successfully allocated the required resources and changed to the new configuration, the DRNC 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 the DRNC 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 READY message. The DRNS shall not transmit with a higher power than indicated by the *Maximum DL TX Power IE* or lower than indicated by the *Minimum DL TX Power IE* on any DL DPCH of the RL [FDD – except during compressed mode, when the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k].

8.3.7.3 Unsuccessful Operation



Figure 15: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

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

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

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;
- CM not Supported.

Miscellaneous Causes:

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

8.3.7.4 Abnormal Conditions

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

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

If the RADIO LINK RECONFIGURATION REQUEST message includes a *DCHs to Modify* IE or *DCHs to Add* IE with multiple *DCH Specific Info* IEs, and if the DCHs in the *DCHs to Modify* IE or *DCHs to Add* IE do not have the same *Transmission Time Interval* IE in the *Semi-static Transport Format Information* IE, then the DRNC shall reject the procedure using the RADIO LINK RECONFIGURATION FAILURE message.

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *DL Reference Power Information* IE, but the power balancing is not active in the indicated RL(s), the DRNS shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed and the DRNC shall respond the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Common" in the existing RL(s) but the *DL Reference Power Information* IE includes the *Individual DL Reference Power Information* IE, the DRNS shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed and the DRNC shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the UE Context set to "Individual" in the existing RL(s) but the *DL Reference Power Information* IE includes the *Common DL Reference Power* IE, the DRNS shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed and the DRNC shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

<Not affected part is omitted>

9.1.11 RADIO LINK RECONFIGURATION PREPARE

9.1.11.1 FDD Message

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and	Description		Criticality
			Reference			-
Message Type	M		9.2.1.40		YES	reject
I ransaction ID	M		9.2.1.59		-	
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL DPCH Information		01			YES	reject
>UL Scrambling Code	0		9.2.2.53		_	
>UL SIR Target	0		Uplink SIR 9.2.1.69		-	
>Min UL Channelisation Code Length	0		9.2.2.25		-	
>Max Number of UL	C –		9.2.2.24		-	
DPDCHS	CodeLen		0.0.1.40	For the LU		
	0		9.2.1.46	For the UL.	_	
>1FC5	0		9.2.1.63	UL.	_	
>UL DPCCH Slot Format	0		9.2.2.52		_	
>Diversity Mode	0		9.2.2.8		_	
>SSDT Cell Identity Lenath	0		9.2.2.41		-	
>S-Field Lenath	0		9.2.2.36		_	
DL DPCH Information		01			YES	reiect
>TFCS	0		9.2.1.63	TFCS for the	-	
>DL DPCH Slot Format	0		9.2.2.9		_	
>Number of DL	0		9.2.2.26A		_	
TECL Signalling Mode	0		0 2 2 46			
	0		9.2.2.40		_	
	SlotFormat		9.2.1.35		_	
>Multiplexing Position	0		9.2.2.26		_	
>Limited Power Increase	0		9.2.2.21A		_	
DCHs to Modify	0		FDD DCHs to Modify 9.2.2.13C		YES	reject
DCHs to Add	0		DCH FDD Information 9.2.2.4A		YES	reject
DCHs to Delete		0 <maxnoof< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxnoof<>			GLOBAL	reject
>DCH ID	М	201107	9.2.1.16		_	
DSCHs to Modify		01	0.2		YES	reiect
>DSCH Info		0 <maxnoof< td=""><td></td><td></td><td>_</td><td></td></maxnoof<>			_	
>>DSCH ID	М	000132	921264		_	
>>TrCh Source	0		9.2.1.65		_	
>>Transport	0		9.2.1.64	For DSCH	_	
Format Set >>Allocation/	0		9.2.1.1		_	
Retention Priority			0.04.544			
Priority Indicator	0		9.2.1.51A		_	
>>BLER	0		9.2.1.4		_	
>>Transport Bearer Request Indicator	М		9.2.1.61			
>PDSCH RL ID	0		RL ID		_	
>TECS	0		92163	For DSCH	_	
>Enhanced DSCH PC	0		9.2.2.13F	10.0001	YES	ignore

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Indicator						
>Enhanced DSCH PC	C- EDSCHPC On		9.2.2.13D		YES	ignore
DSCHs to Add	0		DSCH FDD Information 9.2.2.13A		YES	reject
DSCHs to Delete		01			YES	reject
>DSCH Info		1 <maxnoof DSCHs></maxnoof 			-	
>>DSCH ID	М		9.2.1.26A		-	
RL Information		0 <maxnoof RLs></maxnoof 			EACH	reject
>RL ID	М		9.2.1.49		—	
>SSDT Indication	0		9.2.2.42		_	
>SSDT Cell Identity	C - SSDTIndON		9.2.2.40		-	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.48		_	
>SSDT Cell Identity for EDSCHPC	C- EDSCHPC		9.2.2.40A		YES	ignore
>DL Reference Power	<u>0</u>		DL Power 9.2.1.21A	Power on DPCH	YES	ignore
Transmission Gap Pattern Sequence Information	0		9.2.2.47A		YES	reject

<Not affected part is omitted>

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	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
RL Information Response		0 <maxno ofRLs></maxno 			EACH	ignore
>RL ID	М		9.2.1.49		-	
>Maximum Uplink SIR	0		Uplink SIR 9.2.1.69		-	
>Minimum Uplink SIR	0		Uplink SIR 9.2.1.69		-	
>Maximum DL TX Power	0		DL Power 9.2.1.21A		-	
>Minimum DL TX Power	0		DL Power 9.2.1.21A		-	
>Secondary CCPCH Info	0		9.2.2.37B		-	
>DL Code Information	0		FDD DL Code Information 9.2.2.14A		YES	ignore
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DSCHs to be Added or Modified	0		DSCH FDD Information Response 9.2.2.13B		YES	ignore
>DL Power Balancing Updated Indicator	<u>0</u>		<u>9.2.2.x</u>		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

<Not affected part is omitted>
9.1.16 RADIO LINK RECONFIGURATION REQUEST

9.1.16.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		_	•
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.63	TFCS for the UL.	_	
DL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.63	TFCS for the DL.	-	
>TFCI Signalling Mode	0		9.2.2.46		-	
>Limited Power Increase	0		9.2.2.21A		-	
DCHs to Modify	0		FDD DCHs to Modify 9.2.2.13C		YES	reject
DCHs to Add	0		DCH FDD Information 9.2.2.4A		YES	reject
DCHs to Delete		0 <maxno ofDCHs></maxno 			GLOBAL	reject
>DCH ID	Μ		9.2.1.16		_	
Transmission Gap Pattern Sequence Information	0		9.2.2.47A		YES	reject
DL Reference Power Information	<u>0</u>		<u>9.2.2.xx</u>		YES	ignore

<Not affected part is omitted>

9.1.17 RADIO LINK RECONFIGURATION RESPONSE

9.1.17.1 FDD Message

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and	Description		Criticality
Message Type	M		9 2 1 40		YES	reject
Transaction ID	M		9.2.1.59		-	10,000
RL Information Response		0 <maxno ofRLs></maxno 			EACH	ignore
>RL ID	М		9.2.1.49		_	
>Maximum Uplink SIR	0		Uplink SIR 9.2.1.69		_	
>Minimum Uplink SIR	0		Uplink SIR 9.2.1.69		_	
>Maximum DL TX Power	0		DL Power 9.2.1.21A		_	
>Minimum DL TX Power	0		DL Power 9.2.1.21A		_	
>Secondary CCPCH Info	0		9.2.2.37B		_	
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DL Code Information	0		FDD DL Code Information 9.2.2.14A		YES	ignore
>DL Power Balancing Updated Indicator	<u>0</u>		<u>9.2.2.x</u>		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

<Not affected part is omitted>

9.2.2 FDD Specific Parameters

<Not affected part is omitted>

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 Cause Group				•
>Radio Network Layer				
>Radio Network Layer >>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, UL Radio Resources not Available, Measurement not Supported For The Object, Combining Resources Not Available, Combining not Supported, Reconfiguration not Allowed, Requested Configuration not Supported, Synchronisation Failure, Requested Tx Diversity Mode not Supported, Measurement Temporarily not Available, Unspecified, Invalid CM Settings, Reconfiguration CFN not Elapsed, Number of DL Codes Not Supported, Dedicated Transport Channel Type not Supported, UL Shared Channel Type not Supported, UL Shared Channel Type not Supported, UL Shared Channel Type not Supported, UL Spreading Factor not Supported, DL Spreading Factor not Supported, DD Supported, Common Transport Channel Type not Supported, UL Spreading Factor not Supported, DL Spreading Factor not Supported, DD Supported, Common Transport Channel Type not Supported, UL Spreading Factor not Supported, DD Supported, Common Transport Channel Type not Supported, Common Transport Channel Type not Supported, UL Spreading Factor not Supported, DD Supported, Common Transport Channel Type not Supported, Common Transport Channel Type not S	
Trease and Leaves			<u>compatible</u>)	
 >Transport Layer >>Transport Layer Cause 	М		ENUMERATED (Transport Resource Unavailable, Unspecified,)	
>Protocol				
>>Protocol Cause			ENUMERATED (Transfer Syntax Error, Abstract Syntax Error (Reject), Abstract Syntax Error (Ignore and Notify), Message not Compatible with Receiver State, Semantic Error, Unspecified, Abstract Syntax Error (Falsely Constructed Message),)	
>>Miscellaneous Cause	M		ENUMERATED (Control Processing Overload, Hardware Failure, O&M Intervention, Not enough User Plane Processing Resources, Unspecified)	

The meaning of the different cause values is described in the following table. In general, "not supported" cause values indicate that the concerning capability is missing. On the other hand, "not available" cause values indicate that the concerning capability is present, but insufficient resources were available to perform the requested action.

Radio Network Layer cause	Meaning
Cell not Available	The concerning cell is not available
Cell reserved for operator use	The concerning cell is reserved for operator use
Combining not Supported	The DRNS does not support the RL combining for the concerning cells
Combining Resources Not	The value of the received Diversity Control Field IE was set to 'Must',
Available	but the DRNS cannot perform the requested combining
CM not Supported	The concerning cell(s) do not support Compressed Mode
Common Transport Channel Type	The concerning cell(s) do not support the RACH and/or FACH and/or
not Supported	CPCH Common Transport Channel Type
Dedicated Transport Channel Type	The concerning cell(s) do not support the Dedicated Transport Channel
not Supported	Туре
DL Radio Resources not Available	The DRNS does not have sufficient DL radio resources available
DL SF not Supported	The concerning cell(s) do not support the requested DL SF
DL Shared Channel Type not	The concerning cell(s) do not support the Downlink Shared Channel
Supported	Туре
DPC Mode Change not Supported	The concerning cells do not support the DPC mode changes
Information Provision not	The RNS doesn't support provision of the requested information for the
supported for the object	concerned object types
Information temporarily not	The RNS can temporarily not provide the requested information
available	
Invalid CM Settings	The concerning cell(s) consider the requested Compressed Mode settings invalid
Measurement not Supported For	At least one of the concerning cell(s) does not support the requested
The Object	measurement on the concerning object type
Measurement Temporarily not Available	The DRNS can temporarily not provide the requested measurement value
Number of DL Codes not Supported	The concerning cell(s) do not support the requested number of DL codes
Number of UL Codes not	The concerning cell(s) do not support the requested number of UL codes
Supported	
Power Level not Supported	A DL power level was requested which the concerning cell(s) do not
	support
Power Balancing status not	The power balancing status in the SRNC is not compatible with that of
compatible	the DRNC.
Reconfiguration CFN not Elapsed	The requested action cannot be performed due to that a COMMIT
	message was received previously, but the concerning CFN has not yet
	elapsed
Reconfiguration not Allowed	The SRNC does currently not allow the requested reconfiguration
Requested Configuration not	The concerning cell(s) do not support the requested configuration i.e.
Supported	power levels, Transport Formats, physical channel parameters,
Requested Tx Diversity mode not	The concerning cell(s) do not support the requested transmit diversity
Supported	
RL Already Activated/ Allocated	The DRNS has already allocated an RL with the requested RL ID for this
Sunchronization Failure	UE CONTEXT
Transaction not Supported by	Loss of UL UU synchronisation
Destination Node R	corresponding action in the destination Node R
UL Padio Pasouros not Available	The DPNS does not have sufficient III, radio resources available
UL Scrambling Code Already in	The concerning III scrambling code is already in use for another IE
Use	The concerning OL scramoling code is already in use for another OE
UL SF not Supported	The concerning cell(s) do not support the requested minimum III SF
UL Shared Channel Type not	The concerning cell(s) do not support the Unlink Shared Channel Type
Supported	The concerning conto, do not support the opinit billiod chamiler Type
Unknown C-ID	The DRNS is not aware of a cell with the provided C-Id
Unspecified	Sent when none of the above cause values applies but still the cause is
L	Radio Network Layer related

<Not affected part is omitted>

9.2.2.10 DL Power

Void

9.2.2.xx DL Reference Power Information

The *DL Reference Power Information* IE provides reference power of the power balancing to be used in the relevant <u>RL(s).</u>

IE/Group Name	Presence	<u>Range</u>	<u>IE type</u> <u>and</u> reference	Semantics description	<u>Criticality</u>	Assigned Criticality
Common DL Reference Power	<u>0</u>		<u>DL power</u> 9.2.1.21A	Power on DPCH	=	
Individual DL Reference Power Information		0 <maxnoof RLs></maxnoof 			=	
>RL ID	M		9.2.1.49		_	
>DL Reference Power	M		<u>DL power</u> 9.2.1.21A	Power on DPCH	=	

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

9.2.2.xx DL Power Balancing Updated Indicator

The *DL Power Balancing Updated Indicator* IE indicates that the power balancing related parameters is updated in the RL.

IE/Group Name	Presence	<u>Range</u>	IE type and reference	Semantics description
DL Power Balancing			ENUMERATED	
Updated Indicator			(DL Power	
			Balancing	
			Updated)	

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 (015)	0= Primary scrambling code of the cell 115= Secondary scrambling code

<Not affected part is omitted>

9.3.3 PDU Definitions

-- PDU definitions for RNSAP.

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

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS

```
Active-Pattern-Sequence-Information,
AllocationRetentionPriority,
AllowedQueuingTime,
Allowed-Rate-Information,
AlphaValue,
BLER,
SCTD-Indicator,
BindingID,
C-ID,
C-RNTI,
CCTrCH-ID,
CFN,
ClosedLoopModel-SupportIndicator,
ClosedLoopMode2-SupportIndicator,
Closedlooptimingadjustmentmode,
CN-CS-DomainIdentifier,
CN-PS-DomainIdentifier,
CNDomainType,
Cause,
CellParameterID,
ChipOffset,
CommonMeasurementAccuracy,
CommonMeasurementType,
CommonMeasurementValue,
CommonMeasurementValueInformation,
CongestionCause,
CriticalityDiagnostics,
```

D-RNTI, D-RNTI-ReleaseIndication. DCH-FDD-Information. DCH-ID, DCH-InformationResponse, DCH-TDD-Information, DL-DPCH-SlotFormat, DL-TimeslotISCP, DL-Power, DL-PowerBalancing-UpdatedIndicator, DL-ReferencePowerInformation, DL-ScramblingCode, DL-Timeslot-Information, DL-TimeslotLCR-Information, DL-TimeSlot-ISCP-Info, DL-TimeSlot-ISCP-LCR-Information, DPC-Mode, DPC-Mode-Change-SupportIndicator, DPCH-ID, DRACControl, DRXCycleLengthCoefficient, DedicatedMeasurementType, DedicatedMeasurementValue, DedicatedMeasurementValueInformation, DiversityControlField, DiversityMode, DSCH-FDD-Information, DSCH-FDD-InformationResponse, DSCH-FlowControlInformation, DSCH-FlowControlItem, DSCH-TDD-Information, DSCH-ID, SchedulingPriorityIndicator, EnhancedDSCHPC, EnhancedDSCHPCCounter, EnhancedDSCHPCIndicator, EnhancedDSCHPCWnd, EnhancedDSCHPowerOffset, FACH-FlowControlInformation, FDD-DCHs-to-Modify, FDD-DL-ChannelisationCodeNumber, FDD-DL-CodeInformation, FDD-S-CCPCH-Offset, FDD-TPC-DownlinkStepSize, FirstRLS-Indicator, FNReportingIndicator, FrameHandlingPriority, FrameOffset, GA-AccessPointPosition, GA-Cell, GA-CellAdditionalShapes,

IMSI, InformationExchangeID, InformationReportCharacteristics, InformationType, InnerLoopDLPCStatus, L3-Information, LimitedPowerIncrease, MaximumAllowedULTxPower, MaxNrDLPhysicalchannels, MaxNrOfUL-DPCHs, MaxNrTimeslots, MaxNrULPhysicalchannels, MeasurementFilterCoefficient, MeasurementID. MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftLCR, MinimumSpreadingFactor, MinUL-ChannelisationCodeLength, MultiplexingPosition, NeighbouringFDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation, Neighbouring-GSM-CellInformation, Neighbouring-UMTS-CellInformation, NrOfDLchannelisationcodes, PagingCause, PagingRecordType, PDSCHCodeMapping, PayloadCRC-PresenceIndicator, PCCPCH-Power, PC-Preamble, Permanent-NAS-UE-Identity, PowerAdjustmentType, PowerOffset, PrimaryCCPCH-RSCP, PrimaryCPICH-EcNo, PrimaryCPICH-Power, PrimaryScramblingCode, PropagationDelay, PunctureLimit, QE-Selector, RANAP-RelocationInformation, RB-Info, RL-ID, RL-Set-ID, RNC-ID, RepetitionLength, RepetitionPeriod, ReportCharacteristics, Received-total-wide-band-power, RequestedDataValue,

RequestedDataValueInformation, RxTimingDeviationForTA, S-FieldLength, S-RNTI, SCH-TimeSlot, SAI, SFN, Secondary-CCPCH-Info, Secondary-CCPCH-Info-TDD, Secondary-LCR-CCPCH-Info-TDD, SpecialBurstScheduling, SSDT-CellID, SSDT-CellID-Length, SSDT-Indication, SSDT-SupportIndicator, STTD-Indicator, STTD-SupportIndicator, AdjustmentPeriod, ScaledAdjustmentRatio, MaxAdjustmentStep, SecondaryCCPCH-SlotFormat, SRB-Delay, SyncCase, SynchronisationConfiguration, TDD-ChannelisationCode, TDD-DCHs-to-Modify, TDD-DL-Code-Information, TDD-DPCHOffset, TDD-PhysicalChannelOffset, TDD-TPC-DownlinkStepSize, TDD-ChannelisationCodeLCR, TDD-DL-Code-LCR-Information, TDD-UL-Code-Information, TDD-UL-Code-LCR-Information, TFCI-Coding, TFCI-Presence, TFCI-SignallingMode, TimeSlot, TimeSlotLCR, TimingAdvanceApplied, TOAWE, TOAWS, TransmitDiversityIndicator, TransportBearerID, TransportBearerRequestIndicator, TFCS, Transmission-Gap-Pattern-Sequence-Information, TransportFormatManagement, TransportFormatSet, TransportLayerAddress, TrCH-SrcStatisticsDescr,

TSTD-Indicator, TSTD-Support-Indicator, UARFCN, UC-ID, UL-DPCCH-SlotFormat, UL-SIR, UL-FP-Mode, UL-PhysCH-SF-Variation, UL-ScramblingCode, UL-Timeslot-Information, UL-TimeslotLCR-Information, UL-TimeSlot-ISCP-Info, UL-TimeSlot-ISCP-LCR-Info, URA-ID, URA-Information, USCH-ID, USCH-Information FROM RNSAP-IEs PrivateIE-Container{}, ProtocolExtensionContainer{}, ProtocolIE-ContainerList{}, ProtocolIE-ContainerPair{}, ProtocolIE-ContainerPairList{}, ProtocolIE-Container{}, ProtocolIE-Single-Container{}, RNSAP-PRIVATE-IES, RNSAP-PROTOCOL-EXTENSION, RNSAP-PROTOCOL-IES, RNSAP-PROTOCOL-IES-PAIR FROM RNSAP-Containers maxNoOfDSCHs, maxNoOfUSCHs, maxNrOfCCTrCHs, maxNrOfDCHs, maxNrOfTS, maxNrOfDPCHs, maxNrOfRLs, maxNrOfRLSets, maxNrOfRLs-1, maxNrOfRLs-2, maxNrOfULTs, maxNrOfDLTs, maxNoOfDSCHsLCR, maxNoOfUSCHsLCR, maxNrOfCCTrCHsLCR, maxNrOfTsLCR, maxNrOfDLTsLCR, maxNrOfULTsLCR, maxNrOfDPCHsLCR,

maxNrOfLCRTDDNeighboursPerRNC, maxNrOfMeasNCell. id-Active-Pattern-Sequence-Information, id-AdjustmentRatio, id-AllowedOueuingTime, id-BindingID, id-C-ID, id-C-RNTI, id-CFN, id-CFNReportingIndicator, id-CN-CS-DomainIdentifier, id-CN-PS-DomainIdentifier, id-Cause. id-CauseLevel-RL-AdditionFailureFDD, id-CauseLevel-RL-AdditionFailureTDD. id-CauseLevel-RL-ReconfFailure, id-CauseLevel-RL-SetupFailureFDD, id-CauseLevel-RL-SetupFailureTDD, id-CCTrCH-InformationItem-RL-FailureInd, id-CCTrCH-InformationItem-RL-RestoreInd, id-ClosedLoopModel-SupportIndicator, id-ClosedLoopMode2-SupportIndicator, id-CNOriginatedPage-PagingRgst, id-CommonMeasurementAccuracy, id-CommonMeasurementObjectType-CM-Rprt, id-CommonMeasurementObjectType-CM-Rgst, id-CommonMeasurementObjectType-CM-Rsp, id-CommonMeasurementType, id-CongestionCause, id-CriticalityDiagnostics, id-D-RNTI, id-D-RNTI-ReleaseIndication, id-DCHs-to-Add-FDD, id-DCHs-to-Add-TDD. id-DCH-DeleteList-RL-ReconfPrepFDD, id-DCH-DeleteList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfRqstFDD, id-DCH-DeleteList-RL-ReconfRgstTDD, id-DCH-FDD-Information, id-DCH-TDD-Information, id-FDD-DCHs-to-Modify, id-TDD-DCHs-to-Modify, id-DCH-InformationResponse, id-DCH-Rate-InformationItem-RL-CongestInd, 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-ReconfRgstTDD, id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,

id-DL-CCTrCH-InformationItem-RL-SetupRgstTDD, id-DL-CCTrCH-InformationListIE-PhyChReconfRgstTDD, 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-ReconfRgstTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationList-RL-SetupRgstTDD, id-FDD-DL-CodeInformation, id-DL-DPCH-Information-RL-ReconfPrepFDD, id-DL-DPCH-Information-RL-SetupRgstFDD, id-DL-DPCH-Information-RL-ReconfRqstFDD, id-DL-DPCH-InformationItem-PhyChReconfRgstTDD, id-DL-DPCH-InformationItem-RL-AdditionRspTDD, id-DL-DPCH-InformationItem-RL-SetupRspTDD, id-DL-DPCH-InformationAddListIE-RL-ReconfReadvTDD, id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadvTDD, id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD, id-DL-Physical-Channel-Information-RL-SetupRqstTDD, id-DL-PowerBalancing-UpdatedIndicator, id-DL-ReferencePowerInformation, 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-DPC-Mode, id-DPC-Mode-Change-SupportIndicator, id-DSCHs-to-Add-FDD, id-DSCHs-to-Add-TDD. id-DSCH-DeleteList-RL-ReconfPrepTDD, id-DSCH-Delete-RL-ReconfPrepFDD, id-DSCH-FDD-Information, id-DSCH-InformationListIE-RL-AdditionRspTDD, id-DSCH-InformationListIEs-RL-SetupRspTDD, id-DSCH-TDD-Information, id-DSCH-FDD-InformationResponse, id-DSCH-ModifyList-RL-ReconfPrepTDD, id-DSCH-Modify-RL-ReconfPrepFDD, id-DSCHsToBeAddedOrModified-FDD, id-DSCHToBeAddedOrModifiedList-RL-ReconfReadvTDD, id-EnhancedDSCHPC. id-EnhancedDSCHPCIndicator, id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD, id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD, id-GA-Cell,

id-GA-CellAdditionalShapes, id-IMSI. id-InformationExchangeID. id-InformationExchangeObjectType-InfEx-Rprt, id-InformationExchangeObjectType-InfEx-Rgst, id-InformationExchangeObjectType-InfEx-Rsp, id-InformationReportCharacteristics, id-InformationType, id-InnerLoopDLPCStatus, id-L3-Information, id-AdjustmentPeriod, id-MaxAdjustmentStep, id-MeasurementFilterCoefficient. id-MeasurementID. id-PagingArea-PagingRgst, id-Permanent-NAS-UE-Identity, id-FACH-FlowControlInformation, id-PowerAdjustmentType, id-PropagationDelay, id-RANAP-RelocationInformation, id-RL-Information-PhyChReconfRqstFDD, id-RL-Information-PhyChReconfRqstTDD, id-RL-Information-RL-AdditionRqstFDD, id-RL-Information-RL-AdditionRgstTDD. id-RL-Information-RL-DeletionRgst, 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-RL-CongestInd, id-RL-InformationItem-DM-Rprt, id-RL-InformationItem-DM-Rqst, id-RL-InformationItem-DM-Rsp, id-RL-InformationItem-RL-PreemptRequiredInd, id-RL-InformationItem-RL-SetupRgstFDD, id-RL-InformationList-RL-CongestInd, id-RL-InformationList-RL-AdditionRgstFDD, id-RL-InformationList-RL-DeletionRqst, id-RL-InformationList-RL-PreemptRequiredInd, id-RL-InformationList-RL-ReconfPrepFDD, id-RL-InformationResponse-RL-AdditionRspTDD, id-RL-InformationResponse-RL-ReconfReadyTDD, id-RL-InformationResponse-RL-ReconfRspTDD, id-RL-InformationResponse-RL-SetupRspTDD, id-RL-InformationResponseItem-RL-AdditionRspFDD, id-RL-InformationResponseItem-RL-ReconfReadyFDD, id-RL-InformationResponseItem-RL-ReconfRspFDD, id-RL-InformationResponseItem-RL-SetupRspFDD, id-RL-InformationResponseList-RL-AdditionRspFDD, id-RL-InformationResponseList-RL-ReconfReadyFDD,

id-RL-InformationResponseList-RL-ReconfRspFDD, id-RL-InformationResponseList-RL-SetupRspFDD, id-RL-ReconfigurationFailure-RL-ReconfFail. id-RL-Set-InformationItem-DM-Rprt, id-RL-Set-InformationItem-DM-Rgst, id-RL-Set-InformationItem-DM-Rsp, id-RL-Set-Information-RL-FailureInd, id-RL-Set-Information-RL-RestoreInd, id-ReportCharacteristics, id-Reporting-Object-RL-FailureInd, id-Reporting-Object-RL-RestoreInd, id-RxTimingDeviationForTA, id-S-RNTI. id-SAI. id-SFN, id-SFNReportingIndicator, id-SRNC-ID, id-SSDT-CellIDforEDSCHPC, id-STTD-SupportIndicator, id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD, id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-timeSlot-ISCP, 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-ReconfRgstTDD, 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-SetupRgstTDD, id-UL-CCTrCH-InformationList-RL-SetupRgstTDD, id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD, id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD, id-UL-CCTrCH-InformationListIE-RL-ReconfReadvTDD, id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-Information-RL-ReconfPrepFDD, id-UL-DPCH-Information-RL-ReconfRgstFDD, id-UL-DPCH-Information-RL-SetupRqstFDD, id-UL-DPCH-InformationItem-PhyChReconfRgstTDD, 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-SetupRgstTDD, id-UL-SIRTarget. id-URA-Information, id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD, id-USCHs-to-Add, id-USCH-DeleteList-RL-ReconfPrepTDD, id-USCH-InformationListIE-RL-AdditionRspTDD, id-USCH-InformationListIEs-RL-SetupRspTDD, id-USCH-Information, id-USCH-ModifyList-RL-ReconfPrepTDD, id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRqstTDD, id-RL-LCR-InformationResponse-RL-SetupRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD, id-USCH-LCR-InformationListIEs-RL-SetupRspTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRgstTDD. id-RL-LCR-InformationResponse-RL-AdditionRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD, id-DL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD, id-timeSlot-ISCP-LCR-List-DL-PC-Rgst-TDD, id-TSTD-Support-Indicator-RL-SetupRgstTDD

FROM RNSAP-Constants;

<Not affected part is omitted>

 *
 RADIO LINK RECONFIGURATION PREPARE FDD
 *

```
Release 4
```

RadioLinkReconfigurationPrepareFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkReconfigurationPrepareFDD-IEs}}, ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareFDD-Extensions}} protocolExtensions OPTIONAL. . . . RadioLinkReconfigurationPrepareFDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-AllowedOueuingTime CRITICALITY reject TYPE AllowedOueuingTime PRESENCE optional } ID id-UL-DPCH-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfPrepFDD PRESENCE optional PRESENCE optional } ID id-DL-DPCH-Information-RL-ReconfPrepFDD CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfPrepFDD ID id-FDD-DCHs-to-Modify CRITICALITY reject TYPE FDD-DCHs-to-Modify PRESENCE optional ID id-DCHs-to-Add-FDD CRITICALITY reject TYPE DCH-FDD-Information 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-DSCHs-to-Add-FDD CRITICALITY reject TYPE DSCH-FDD-Information 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-DPCHs OPTIONAL -- This IE shall be present if minUL-ChannelisationCodeLength equals to 4 --, ul-PunctureLimit PunctureLimit OPTIONAL, TFCS tFCS OPTIONAL, ul-DPCCH-SlotFormat UL-DPCCH-SlotFormat OPTIONAL, diversitvMode DiversitvMode OPTIONAL, sSDT-CellIDLength SSDT-CellID-Length OPTIONAL, s-FieldLength S-FieldLength OPTIONAL, ProtocolExtensionContainer { {UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL, iE-Extensions . . . UL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE { + FCS OPTIONAL, TFCS dl-DPCH-SlotFormat DL-DPCH-SlotFormat OPTIONAL, nrOfDLchannelisationcodes NrOfDLchannelisationcodes OPTIONAL, tFCI-SignallingMode TFCI-SignallingMode OPTIONAL, t.FCI-Presence TFCI-Presence OPTIONAL -- This IE shall be present if DL DPCH Slot Format IE 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-DeleteList-RL-ReconfPrepFDD
                                            ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepFDD
DCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dCH-ID
                                    DCH-ID,
                                    ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DSCH-Modify-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-Information
                                        DSCH-ModifyInfo-RL-ReconfPrepFDD
                                                                             OPTIONAL,
                                        RL-ID
    pdSCH-RL-ID
                                                                     OPTIONAL,
                                        TFCS
                                                                     OPTIONAL,
    tFCS
    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,
    transportBearerRequestIndicator
                                        TransportBearerRequestIndicator,
    iE-Extensions
                                        ProtocolExtensionContainer { {DSCH-ModifyInformationItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    . . .
}
DSCH-ModifyInformationItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-EnhancedDSCHPCIndicator
                                            CRITICALITY ignore EXTENSION EnhancedDSCHPCIndicator
                                                                                                            PRESENCE optional } |
                                            CRITICALITY ignore EXTENSION EnhancedDSCHPC
                                                                                                             PRESENCE conditional },
    { ID id-EnhancedDSCHPC
    -- The IE shall be present if the Enhanced DSCH PC Indicator IE is set to "Enhanced DSCH PC Active in the UE".
    . . .
}
```

```
DSCH-Delete-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-Information
                                        DSCH-Info-Delete-RL-ReconfPrepFDD.
    iE-Extensions
                                        ProtocolExtensionContainer { {DSCH-Delete-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    . . .
l
DSCH-Delete-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DSCH-Info-Delete-RL-ReconfPrepFDD ::= SEOUENCE (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
                                            ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF Protocolle-Single-Container { {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-TD
                               RL-ID,
    sSDT-Indication
                                    SSDT-Indication
                                                        OPTIONAL,
    sSDT-CellIdentity
                                    SSDT-CellID
                                                    OPTIONAL
    -- The IE shall be present if the sSDT-Indication is set to 'sSDT-active-in-the-UE' --,
                                    TransmitDiversityIndicator
    transmitDiversityIndicator
                                                                    OPTIONAL,
    -- This IE shall be present if Diversity Mode IE is present in UL DPCH Information IE and is not equal to "none"
                                    ProtocolExtensionContainer { {RL-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
RL-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-SSDT-CellIDforEDSCHPC CRITICALITY ignore EXTENSION SSDT-CellID
                                                                                    PRESENCE conditional }
    -- This IE shall be present if Enhanced DSCH PC IE is present in either the DSCHs to Modify IE or the DSCHs to Add IE.
   { ID id-DLReferencePower
                              CRITICALITY ignore EXTENSION DL-Power
                                                                                            PRESENCE optional },
    . . .
RadioLinkReconfigurationPrepareFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

<Not affected part is omitted> _ RADIO LINK RECONFIGURATION READY FDD _ _ RadioLinkReconfigurationReadyFDD ::= SEQUENCE { ProtocolIE-Container {{RadioLinkReconfigurationReadyFDD-IEs}}, protocolIEs ProtocolExtensionContainer {{RadioLinkReconfigurationReadyFDD-Extensions}} protocolExtensions 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 }, . . . ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationResponse-RL-RL-InformationResponseList-RL-ReconfReadyFDD 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 OPTIONAL. dl-CodeInformationList DL-CodeInformationList-RL-ReconfReadyFDD OPTIONAL, dCHInformationResponse DCH-InformationResponseList-RL-ReconfReadyFDD OPTIONAL, dSCHsToBeAddedOrModified DSCHsToBeAddedOrModified-RL-ReconfReadyFDD OPTIONAL, ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs } } OPTIONAL, iE-Extensions RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { { ID id-DL-PowerBalancing-UpdatedIndicator CRITICALITY ignore EXTENSION DL-PowerBalancing-UpdatedIndicator PRESENCE optional }, . . . DL-CodeInformationList-RL-ReconfReadyFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-ReconfReadyFDD }}

```
DL-CodeInformationListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-FDD-DL-CodeInformation CRITICALITY ignore TYPE FDD-DL-CodeInformation
                                                                                   PRESENCE mandatory
                                                        ::= ProtocolIE-Single-Container { {DCH-InformationResponseListIEs-RL-ReconfReadyFDD} }
DCH-InformationResponseList-RL-ReconfReadvFDD
DCH-InformationResponseListIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse
                                     CRITICALITY ignore TYPE DCH-InformationResponse
                                                                                          PRESENCE mandatory }
DSCHsToBeAddedOrModified-RL-ReconfReadyFDD ::= ProtocolIE-Single-Container { {DSCHsToBeAddedOrModifiedIEs-RL-ReconfReadyFDD }
DSCHsToBeAddedOrModifiedIEs-RL-ReconfReadyFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCHsToBeAddedOrModified-FDD CRITICALITY ignore TYPE DSCH-FDD-InformationResponse
                                                                                               PRESENCE mandatory }
RadioLinkReconfigurationReadyFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
<Not affected part is omitted>
        **********
-- RADIO LINK RECONFIGURATION REQUEST FDD
  RadioLinkReconfigurationRequestFDD ::= SEQUENCE {
                                                            {{RadioLinkReconfigurationRequestFDD-IEs}},
   protocolIEs
                                  ProtocolIE-Container
                                  ProtocolExtensionContainer {{RadioLinkReconfigurationRequestFDD-Extensions}}
   protocolExtensions
                                                                                                                            OPTIONAL,
    . . .
RadioLinkReconfigurationRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-AllowedQueuingTime
                                     CRITICALITY reject TYPE AllowedQueuingTime
                                                                                          PRESENCE optional } |
     ID id-UL-DPCH-Information-RL-ReconfRqstFDD
                                                        CRITICALITY reject TYPE UL-DPCH-Information-RL-ReconfRqstFDD PRESENCE optional }
     ID id-DL-DPCH-Information-RL-ReconfRqstFDD
                                                        CRITICALITY reject TYPE DL-DPCH-Information-RL-ReconfRqstFDD PRESENCE optional }
                                 CRITICALITY reject TYPE FDD-DCHs-to-Modify
     ID id-FDD-DCHs-to-Modify
                                                                               PRESENCE optional
                              CRITICALITY reject TYPE DCH-FDD-Information
     ID id-DCHs-to-Add-FDD
                                                                               PRESENCE optional
     ID id-DCH-DeleteList-RL-ReconfRqstFDD
                                             CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfRqstFDD
                                                                                                       PRESENCE optional }
    { ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information PRESENCE optional },
    . . .
UL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    + FCS
                                         OPTIONAL,
                                  TFCS
                                  ProtocolExtensionContainer { {UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
```

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ļ
UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
   tFCS
                               TFCS OPTIONAL,
   tFCI-SignallingMode
                                TFCI-SignallingMode OPTIONAL,
   limitedPowerIncrease
                                LimitedPowerIncrease
                                                      OPTIONAL,
                                ProtocolExtensionContainer { {DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DCH-DeleteList-RL-ReconfRqstFDD
                                    ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRqstFDD
DCH-DeleteItem-RL-ReconfRqstFDD ::= SEQUENCE {
   dCH-ID
                                 DCH-ID,
                                 ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkReconfigurationRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
   { ID id-DL-ReferencePowerInformation
                                               CRITICALITY ignore EXTENSION DL-ReferencePowerInformation
                                                                                                               PRESENCE optional },
   . . .
<Not affected part is omitted>
       -- RADIO LINK RECONFIGURATION RESPONSE FDD
___
RadioLinkReconfigurationResponseFDD ::= SEQUENCE {
   protocolIEs
                                ProtocolIE-Container
                                                          {{RadioLinkReconfigurationResponseFDD-IEs}},
                                ProtocolExtensionContainer {{RadioLinkReconfigurationResponseFDD-Extensions}}
   protocolExtensions
                                                                                                                         OPTIONAL,
   . . .
}
RadioLinkReconfigurationResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
```

```
ID id-RL-InformationResponseList-RL-ReconfRspFDD
                                                            CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfRspFDD
                                                                                                                                      PRESENCE optional
     ID id-CriticalityDiagnostics
                                            CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                  PRESENCE optional }.
    . . .
                                                ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationResponse-RL-
RL-InformationResponseList-RL-ReconfRspFDD
ReconfRspFDD-IEs } }
RL-InformationResponse-RL-ReconfRspFDD-IEs RNSAP-PROTOCOL-IES ::= {
      ID id-RL-InformationResponseItem-RL-ReconfRspFDD
                                                            CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfRspFDD
                                                                                                                                  PRESENCE mandatory
ļ
RL-InformationResponseItem-RL-ReconfRspFDD ::= 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
                                                                OPTIONAL.
                                    DCH-InformationResponseList-RL-ReconfRspFDD OPTIONAL,
    dCHsInformationResponseList
    dL-CodeInformationList-RL-ReconfResp
                                            DL-CodeInformationList-RL-ReconfRspFDD OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfRspFDD-ExtIEs } } OPTIONAL,
    . . .
RL-InformationResponseItem-RL-ReconfRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-PowerBalancing-UpdatedIndicator CRITICALITY ignore
                                                                        EXTENSION
                                                                                        DL-PowerBalancing-UpdatedIndicator
                                                                                                                                PRESENCE optional },
    . . .
DCH-InformationResponseList-RL-ReconfRspFDD
                                                        ::= ProtocollE-Single-Container { {DCH-InformationResponseListIEs-RL-ReconfRspFDD} }
DCH-InformationResponseListIEs-RL-ReconfRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse
                                        CRITICALITY ignore TYPE DCH-InformationResponse
                                                                                                PRESENCE mandatory
DL-CodeInformationList-RL-ReconfRspFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-ReconfRspFDD }}
DL-CodeInformationListIEs-RL-ReconfRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-FDD-DL-CodeInformation CRITICALITY ignore TYPE FDD-DL-CodeInformation
                                                                                        PRESENCE optional
}
RadioLinkReconfigurationResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
<Not affected part is omitted>
```

9.3.4 Information Element Definitions

____ ___ -- Information Element Definitions ___ RNSAP-IEs { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-IEs (2) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN IMPORTS maxCodeNumComp-1, maxNrOfFACHs, maxFACHCountPlus1, maxIBSEG, maxNoOfDSCHs, maxNoOfUSCHs, maxNoTFCIGroups, maxNoCodeGroups, maxNrOfDCHs, maxNrOfDL-Codes, maxNrOfDLTs, maxNrOfDLTsLCR, maxNrOfDPCHs, maxNrOfDPCHsLCR, maxNrOfErrors, maxNrOfFDDNeighboursPerRNC, maxNrOfMACcshSDU-Length,

maxNrOfNeighbouringRNCs, maxNrOfTDDNeighboursPerRNC, maxNrOfLCRTDDNeighboursPerRNC,

maxNrOfGSMNeighboursPerRNC,

maxNrOfTS, maxNrOfULTs, maxNrOfULTsLCR,

maxRateMatching, maxNrOfPoints, maxNoOfRB, maxNrOfTLs, maxNrOfTFCs, maxNrOfTFS, maxCTFC, maxRNCinURA-1, maxNrOfSCCPCHs,

maxTFCI1Combs, maxTFCI2Combs. maxTFCI2Combs-1. maxTGPS, maxTTI-Count, maxNoGPSTypes, maxNoSat, id-Allowed-Rate-Information, id-DPC-Mode-Change-SupportIndicator, id-Guaranteed-Rate-Information, id-Load-Value, id-Load-Value-IncrDecrThres, id-Neighbouring-GSM-CellInformation, id-Neighbouring-UMTS-CellInformationItem, id-neighbouring-LCR-TDD-CellInformation, id-OnModification, id-Received-Total-Wideband-Power-Value, id-Received-Total-Wideband-Power-Value-IncrDecrThres, id-SFNSFNMeasurementThresholdInformation, id-Transmitted-Carrier-Power-Value, id-Transmitted-Carrier-Power-Value-IncrDecrThres, id-TUTRANGPSMeasurementThresholdInformation, id-UL-Timeslot-ISCP-Value, id-UL-Timeslot-ISCP-Value-IncrDecrThres, maxNrOfLevels. maxNrOfMeasNCell, maxNrOfMeasNCell-1, id-MessageStructure, id-EnhancedDSCHPC, id-RestrictionStateIndicator, id-Rx-Timing-Deviation-Value-LCR, id-TypeOfError FROM RNSAP-Constants

Criticality, ProcedureID, ProtocolIE-ID, TransactionID, TriggeringMessage FROM RNSAP-CommonDataTypes

```
ProtocolIE-Single-Container{},
ProtocolExtensionContainer{},
RNSAP-PROTOCOL-IES,
RNSAP-PROTOCOL-EXTENSION
FROM RNSAP-Containers;
```

<Not affected part is omitted>

Cause ::= CHOICE { radioNetwork

transport

CauseMisc ::= ENUMERATED {

hardware-failure, om-intervention.

unspecified,

control-processing-overload,

protocol

misc . . .

. . .

-- C

```
CauseRadioNetwork,
not-enough-user-plane-processing-resources,
```

ļ

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

CauseTransport, CauseProtocol,

CauseMisc,

```
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,
    combining-not-supported,
    reconfiguration-not-allowed,
    requested-configuration-not-supported,
    synchronisation-failure,
    requested-tx-diversity-mode-not-supported,
    measurement-temporaily-not-available,
    unspecified,
    invalid-CM-settings,
    reconfiguration-CFN-not-elapsed,
    number-of-DL-codes-not-supported,
    dedicated-transport-channel-type-not-supported,
    dl-shared-channel-type-not-supported,
```

ul-shared-channel-type-not-supported, common-transport-channel-type-not-supported, ul-spreading-factor-not-supported, dl-spreading-factor-not-supported, cm-not-supported, transaction-not-supported-by-destination-node-b, rl-already-activated-or-alocated, ..., number-of-UL-codes-not-supported, dpc-mode-change-not-supported, information-temporarily-not-available, information-provision-not-supported-for-the-object, cell-reserved-for-operator-use, power-balancing-status-not-compatible

```
CauseTransport ::= ENUMERATED {
   transport-resource-unavailable,
   unspecified,
   ...
}
```

<Not affected part is omitted>

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

```
DL-PowerBalancing-UpdatedIndicator ::= ENUMERATED {
    dL-PowerBalancing-Updated
}
DL-ReferencePowerInformationList
                                        ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF DL-ReferencePowerInformationItem
DL-ReferencePowerInformationItem ::= SEQUENCE {
    rL-ID
                                RL-ID,
    dl-Reference-Power
                                DL-Power,
    iE-Extensions
                                ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs } } OPTIONAL,
    . . .
DL-ReferencePowerInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-ReferencePowerInformation
                                ::= SEOUENCE
    common-DL-ReferencePowerInformation
                                                 DL-Power
                                                                 OPTIONAL,
    individual-DL-ReferencePowerInformation
                                                 DL-ReferencePowerInformationList
                                                                                          OPTIONAL,
                                                 ProtocolExtensionContainer { { DL-ReferencePowerInformation-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
```

}
L-ReferencePowerInformation-ExtlEs RNSAP-PROTOCOL-EXTENSION ::= {
 ...
}

D-RNTI

::= INTEGER (0..1048575)

<Not affected part is omitted>

9.3.6 Constant Definitions

____ _ _ ___ Constant definitions ___ ******* RNSAP-Constants { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-Constants (4) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN IMPORTS ProcedureCode, ProtocolIE-ID FROM RNSAP-CommonDataTypes; ___ _ _ -- Elementary Procedures ---id-commonTransportChannelResourcesInitialisation ProcedureCode ::= 0 id-commonTransportChannelResourcesRelease ProcedureCode ::= 1 id-compressedModeCommand ProcedureCode ::= 2 id-downlinkPowerControl ProcedureCode ::= 3 id-downlinkPowerTimeslotControl ProcedureCode ::= 4 id-downlinkSignallingTransfer ProcedureCode ::= 5id-errorIndication ProcedureCode ::= 6 id-dedicatedMeasurementFailure ProcedureCode ::= 7 id-dedicatedMeasurementInitiation ProcedureCode ::= 8 id-dedicatedMeasurementReporting ProcedureCode ::= 9 id-dedicatedMeasurementTermination ProcedureCode ::= 10 id-paging ProcedureCode ::= 11

maxNoOfDSCHsLCR

maxNoOfUSCHsLCR

maxNoTFCIGroups maxNrOfTFCs

maxNrOfCCTrCHs

maxNrOfDL-Codes

maxNrOfDPCHsLCR

maxNrOfMACcshSDU-Length

maxNrOfCCTrCHsLCR

maxNoOfRB

maxNoOfUSCHs

maxNrOfTFs

maxNrOfDCHs

maxNrOfDPCHs

maxNrOfErrors

maxNrOfPoints

maxNrOfRLs

id-physicalChannelReconfiguration		ProcedureCode	::=	12
id-privateMessage		ProcedureCode	::=	13
id-radioLinkAddition		ProcedureCode	::=	14
id-radioLinkCongestion		ProcedureCode	::=	34
id-radioLinkDeletion		ProcedureCode	::=	15
id-radioLinkFailure		ProcedureCode	::=	16
id-radioLinkPreemption		ProcedureCode	::=	17
id-radioLinkRestoration		ProcedureCode	::=	18
id-radioLinkSetup		ProcedureCode	::=	19
id-relocationCommit		ProcedureCode	::=	20
id-synchronisedRadioLinkReconfiguration	Cancellation	ProcedureCode	::=	21
id-synchronisedRadioLinkReconfiguration	ProcedureCode	::=	22	
id-synchronisedRadioLinkReconfiguration	Preparation	ProcedureCode	::=	23
id-unSynchronisedRadioLinkReconfiguration	on	ProcedureCode	::=	24
id-uplinkSignallingTransfer		ProcedureCode	::=	25
id-commonMeasurementFailure		ProcedureCode	::=	26
id-commonMeasurementInitiation		ProcedureCode	::=	27
id-commonMeasurementReporting		ProcedureCode	::=	28
id-commonMeasurementTermination		ProcedureCode	::=	29
id-informationExchangeFailure		ProcedureCode	::=	30
id-informationExchangeInitiation		ProcedureCode	::=	31
id-informationReporting		ProcedureCode	::=	32
id-informationExchangeTermination		ProcedureCode	::=	33
*********	* * * * * * * * * * * * * * * * * * * *	* * * * * *		
Lists				
************************************	* * * * * * * * * * * * * * * * * * * *	* * * * * *		
maxCodeNumComp-1	INTEGER ::= 255			
maxRateMatching	INTEGER ::= 256			
maxNoCodeGroups	INTEGER $::= 256$			
maxNoOfDSCHs	INTEGER ::= 10			

INTEGER ::= 10

INTEGER ::= 32

INTEGER ::= 10

INTEGER ::= 10 INTEGER ::= 256

INTEGER ::= 32

INTEGER ::= 16

INTEGER ::= 16

INTEGER ::= 8

INTEGER ::= 128

INTEGER ::= 240

INTEGER ::= 240

INTEGER ::= 256

INTEGER ::= 16

INTEGER ::= 15

INTEGER ::= 16

INTEGER ::= 1024

maxNrOfRLSets	INTEGER ::= maxNrOfRLs	
maxNrOfRLs-1	INTEGER ::= 15 maxNrOfRLs - 1	
maxNrOfRLs-2	INTEGER ::= 14 maxNrOfRLs - 2	
maxNrOfULTs	INTEGER ::= 15	
maxNrOfULTsLCR	INTEGER ::= 6	
maxNrOfDLTs	INTEGER ::= 15	
maxNrOfDLTsLCR	INTEGER ::= 6	
maxRNCinURA-1	INTEGER ::= 15	
maxTTI-Count	INTEGER ::= 4	
maxCTFC	INTEGER ::= 16777215	
maxNrOfNeighbouringRNCs	INTEGER ::= 10	
maxNrOfFDDNeighboursPerRNC	INTEGER ::= 256	
maxNrOfGSMNeighboursPerRNC	INTEGER ::= 256	
maxNrOfTDDNeighboursPerRNC	INTEGER ::= 256	
maxNrOfFACHs	INTEGER ::= 8	
maxNrOfLCRTDDNeighboursPerRNC	INTEGER $::= 256$	
maxFACHCount Dlug1	INTEGER := 10	
maxTRSFG	INTEGER ::= 16	
maxIDDEG maxNrOfSCCDCHe	INTEGER ··- 8	
maxTECIlCombg	INTEGER ··- 512	
maxIFCIICOmbs	INTEGER ··- 1024	
maxIFCI2Combg_1	INTEGER $\cdot \cdot = 1024$	
	INTEGER ··- 6	
max1GPS	INTEGER ··= 0	
	INTEGER ··= 15	
maxNrOILeVels	INTEGER := 256	
maxNrOITSLCR	INTEGER ::= 6	
maxNoSat	INTEGER ::= 16	
maxNoGPSTypes	INTEGER ::= 8	
maxNrOIMeasNCell	INTEGER ::= 96	
maxNrOfMeasNCell-1	INTEGER ::= 95 maxNrOiMeasNCe.	11 - 1
* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	
TEa		
IES		
^^^		
id_AllowedOueuingTime		ProtogoliE-ID ··- 4
id-Allowed-Pate-Information		$\frac{\text{Protocolle-ID}}{\text{Drotocolle-ID}} = 42$
id Dinding D		ProtocoliE-ID ··- 42
		Protocolle-ID ···= 5
		Protocolle-ID ··= 8
		Protocolle-ID ··= /
id CN CC Demointifier		Protocolle-ID ··= 8
id CN DC DomainIdentifier		ProtocollE-ID ··= 9
id Course		ProtocollE-ID ::= 10
Iu-cause		Protocolle-ID ::= II
ia-criticalityDiagnostics		ProtocollE-ID ::= 20
		ProtocollE-ID ::= 21
id-D-RNTI-ReleaseIndication		ProtocolIE-ID ::= 22
id-DCHs-to-Add-FDD		ProtocolIE-ID ::= 26
id-DCHs-to-Add-TDD		ProtocolIE-ID ::= 27

id-DCH-DeleteList-RL-ReconfPrepFDD id-DCH-DeleteList-RL-ReconfPrepTDD id-DCH-DeleteList-RL-ReconfRastFDD id-DCH-DeleteList-RL-ReconfRastTDD id-DCH-FDD-Information id-DCH-TDD-Information id-FDD-DCHs-to-Modify id-TDD-DCHs-to-Modify id-DCH-InformationResponse id-DCH-Rate-InformationItem-RL-CongestInd id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD id-DL-CCTrCH-InformationItem-RL-SetupRgstTDD id-DL-CCTrCH-InformationListIE-PhyChReconfRgstTDD id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD id-DL-CCTrCH-InformationList-RL-SetupRgstTDD id-FDD-DL-CodeInformation id-DL-DPCH-Information-RL-ReconfPrepFDD id-DL-DPCH-Information-RL-SetupRqstFDD id-DL-DPCH-Information-RL-ReconfRostFDD id-DL-DPCH-InformationItem-PhyChReconfRqstTDD id-DL-DPCH-InformationItem-RL-AdditionRspTDD id-DL-DPCH-InformationItem-RL-SetupRspTDD id-DLReferencePower id-DLReferencePowerList-DL-PC-Rqst id-DL-ReferencePowerInformation-DL-PC-Rgst id-DPC-Mode id-DRXCycleLengthCoefficient id-DedicatedMeasurementObjectType-DM-Rprt id-DedicatedMeasurementObjectType-DM-Rqst id-DedicatedMeasurementObjectType-DM-Rsp id-DedicatedMeasurementType id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD id-Guaranteed-Rate-Information id-IMSI id-L3-Information id-AdjustmentPeriod id-MaxAdjustmentStep id-MeasurementFilterCoefficient id-MessageStructure id-MeasurementID id-Neighbouring-GSM-CellInformation id-Neighbouring-UMTS-CellInformationItem id-PagingArea-PagingRgst id-FACH-FlowControlInformation id-Permanent-NAS-UE-Identity

ProtocolIE-ID ::= 30 ProtocolIE-ID ::= 31 ProtocolIE-ID ::= 32 ProtocolIE-ID ::= 33 ProtocolIE-ID ::= 34 ProtocolIE-ID ::= 35 ProtocolIE-ID ::= 39 ProtocolIE-ID ::= 40 ProtocolIE-ID ::= 43 ProtocolIE-ID ::= 38 ProtocolIE-ID ::= 44 ProtocolIE-ID ::= 45 ProtocolIE-ID ::= 46 ProtocolIE-ID ::= 47 ProtocolIE-ID ::= 48 ProtocolIE-ID ::= 49 ProtocolIE-ID ::= 50 ProtocolIE-ID ::= 51 ProtocolIE-ID ::= 52 ProtocolIE-ID ::= 53 ProtocolTE-TD := 54ProtocolIE-ID ::= 59 ProtocolIE-ID ::= 60 ProtocolIE-ID ::= 61 ProtocolIE-ID ::= 62 ProtocolIE-ID ::= 63 ProtocolIE-ID ::= 64 ProtocolIE-ID ::= 67 ProtocolIE-ID ::= 68 ProtocolIE-ID ::= 69 ProtocolIE-ID ::= 12 ProtocolIE-ID ::= 70 ProtocolIE-ID ::= 71 ProtocolIE-ID ::= 72 ProtocolIE-ID ::= 73 ProtocolIE-ID ::= 74 ProtocolIE-ID ::= 82 ProtocolIE-ID ::= 83 ProtocolIE-ID ::= 41 ProtocolIE-ID ::= 84 ProtocolIE-ID ::= 85 ProtocolTE-TD := 90ProtocolIE-ID ::= 91 ProtocolIE-ID ::= 92 ProtocolIE-ID ::= 57 ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 95 ProtocolIE-ID ::= 102 ProtocolIE-ID ::= 103 ProtocolIE-ID ::= 17

id-PowerAdjustmentType id-RANAP-RelocationInformation id-RL-Information-PhyChReconfRgstFDD id-RL-Information-PhyChReconfRqstTDD id-RL-Information-RL-AdditionRgstFDD id-RL-Information-RL-AdditionRgstTDD id-RL-Information-RL-DeletionRgst id-RL-Information-RL-FailureInd id-RL-Information-RL-ReconfPrepFDD id-RL-Information-RL-RestoreInd id-RL-Information-RL-SetupRqstFDD id-RL-Information-RL-SetupRgstTDD id-RL-InformationItem-RL-CongestInd id-RL-InformationItem-DM-Rprt id-RL-InformationItem-DM-Rgst id-RL-InformationItem-DM-Rsp id-RL-InformationItem-RL-PreemptRequiredInd id-RL-InformationItem-RL-SetupRgstFDD id-RL-InformationList-RL-CongestInd id-RL-InformationList-RL-AdditionRgstFDD id-RL-InformationList-RL-DeletionRqst id-RL-InformationList-RL-PreemptRequiredInd id-RL-InformationList-RL-ReconfPrepFDD id-RL-InformationResponse-RL-AdditionRspTDD id-RL-InformationResponse-RL-ReconfReadyTDD id-RL-InformationResponse-RL-SetupRspTDD id-RL-InformationResponseItem-RL-AdditionRspFDD id-RL-InformationResponseItem-RL-ReconfReadyFDD id-RL-InformationResponseItem-RL-ReconfRspFDD id-RL-InformationResponseItem-RL-SetupRspFDD id-RL-InformationResponseList-RL-AdditionRspFDD id-RL-InformationResponseList-RL-ReconfReadyFDD id-RL-InformationResponseList-RL-ReconfRspFDD id-RL-InformationResponse-RL-ReconfRspTDD id-RL-InformationResponseList-RL-SetupRspFDD id-RL-ReconfigurationFailure-RL-ReconfFail id-RL-Set-InformationItem-DM-Rprt id-RL-Set-InformationItem-DM-Rgst id-RL-Set-InformationItem-DM-Rsp id-RL-Set-Information-RL-FailureInd id-RL-Set-Information-RL-RestoreInd id-ReportCharacteristics id-Reporting-Object-RL-FailureInd id-Reporting-Object-RL-RestoreInd id-S-RNTI id-SAI id-SRNC-ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD id-TransportBearerID id-TransportBearerRequestIndicator

ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 109 ProtocolIE-ID ::= 110 ProtocolIE-ID ::= 111 ProtocolIE-ID ::= 112 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 114 ProtocolIE-ID ::= 115 ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 118 ProtocolIE-ID ::= 119 ProtocolIE-ID ::= 55 ProtocolIE-ID ::= 120 ProtocolIE-ID ::= 121 ProtocolIE-ID ::= 122 ProtocolIE-ID ::= 2 ProtocolIE-ID ::= 123 ProtocolIE-ID ::= 56 ProtocolIE-ID ::= 124 ProtocolIE-ID ::= 125 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 126 ProtocolIE-ID ::= 127 ProtocolIE-ID ::= 128 ProtocolIE-ID ::= 129 ProtocolIE-ID ::= 130 ProtocolIE-ID ::= 131 ProtocolIE-ID ::= 132 ProtocolIE-ID ::= 133 ProtocolIE-ID ::= 134 ProtocolIE-ID ::= 135 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 28 ProtocolIE-ID ::= 137 ProtocolIE-ID ::= 141 ProtocolIE-ID ::= 143 ProtocolIE-ID ::= 144 ProtocolIE-ID ::= 145 ProtocolIE-ID ::= 146 ProtocolIE-ID ::= 147 ProtocolTE-TD ::= 152 ProtocolIE-ID ::= 153 ProtocolIE-ID ::= 154 ProtocolIE-ID ::= 155 ProtocolIE-ID ::= 156 ProtocolIE-ID ::= 157 ProtocolIE-ID ::= 159 ProtocolIE-ID ::= 160 ProtocolIE-ID ::= 163 ProtocolIE-ID ::= 164

id-TransportLayerAddress id-TypeOfError id-UC-ID id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD id-UL-CCTrCH-InformationList-RL-SetupRgstTDD id-UL-CCTrCH-InformationListIE-PhvChReconfRgstTDD id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD id-UL-CCTrCH-InformationListIE-RL-ReconfReadvTDD 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-PhyChReconfRgstTDD id-UL-DPCH-InformationItem-RL-AdditionRspTDD id-UL-DPCH-InformationItem-RL-SetupRspTDD id-UL-DPCH-InformationAddListIE-RL-ReconfReadvTDD id-UL-SIRTarget id-URA-Information id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD id-Active-Pattern-Sequence-Information id-AdjustmentRatio id-CauseLevel-RL-AdditionFailureFDD id-CauseLevel-RL-AdditionFailureTDD id-CauseLevel-RL-ReconfFailure id-CauseLevel-RL-SetupFailureFDD id-CauseLevel-RL-SetupFailureTDD id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD id-DSCHs-to-Add-TDD id-DSCHs-to-Add-FDD id-DSCH-DeleteList-RL-ReconfPrepTDD id-DSCH-Delete-RL-ReconfPrepFDD id-DSCH-FDD-Information id-DSCH-InformationListIE-RL-AdditionRspTDD id-DSCH-InformationListIEs-RL-SetupRspTDD id-DSCH-TDD-Information id-DSCH-FDD-InformationResponse id-DSCH-Information-RL-SetupRgstFDD id-DSCH-ModifyList-RL-ReconfPrepTDD id-DSCH-Modify-RL-ReconfPrepFDD

ProtocolIE-ID ::= 165 ProtocolIE-ID ::= 140 ProtocolIE-ID ::= 166 ProtocolIE-ID ::= 167 ProtocolIE-ID ::= 169 ProtocolIE-ID ::= 171 ProtocolIE-ID ::= 172 ProtocolIE-ID ::= 173 ProtocolIE-ID ::= 174 ProtocolIE-ID ::= 175 ProtocolIE-ID ::= 176 ProtocolIE-ID ::= 177 ProtocolIE-ID ::= 178 ProtocolIE-ID ::= 179 ProtocolIE-ID ::= 180 ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 182 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 188 ProtocolIE-ID ::= 189 ProtocolIE-ID ::= 190 ProtocolIE-ID ::= 193 ProtocolIE-ID ::= 194 ProtocolIE-ID ::= 197 ProtocolIE-ID ::= 198 ProtocolIE-ID ::= 199 ProtocolIE-ID ::= 200 ProtocolIE-ID ::= 201 ProtocolIE-ID ::= 205 ProtocolIE-ID ::= 206 ProtocolIE-ID ::= 207 ProtocolIE-ID ::= 208 ProtocolIE-ID ::= 209 ProtocolIE-ID ::= 210 ProtocolIE-ID ::= 212 ProtocolIE-ID ::= 213 ProtocolIE-ID ::= 214 ProtocolIE-ID ::= 215 ProtocolIE-ID ::= 216 ProtocolTE-TD ::= 217ProtocolIE-ID ::= 218 ProtocolIE-ID ::= 219 ProtocolIE-ID ::= 220 ProtocolIE-ID ::= 221 ProtocolIE-ID ::= 222 ProtocolIE-ID ::= 223 ProtocolIE-ID ::= 226 ProtocolIE-ID ::= 227 ProtocolIE-ID ::= 228

id-DSCHsToBeAddedOrModified-FDD id-DSCHToBeAddedOrModifiedList-RL-ReconfReadvTDD id-EnhancedDSCHPC id-EnhancedDSCHPCIndicator id-GA-Cell id-GA-CellAdditionalShapes id-SSDT-CellIDforEDSCHPC id-Transmission-Gap-Pattern-Sequence-Information id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadvTDD id-UL-DPCH-InformationModifvListIE-RL-ReconfReadvTDD id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD id-USCHs-to-Add id-USCH-DeleteList-RL-ReconfPrepTDD id-USCH-InformationListIE-RL-AdditionRspTDD id-USCH-InformationListIEs-RL-SetupRspTDD id-USCH-Information id-USCH-ModifyList-RL-ReconfPrepTDD id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD id-DL-Physical-Channel-Information-RL-SetupRqstTDD id-UL-Physical-Channel-Information-RL-SetupRgstTDD id-ClosedLoopModel-SupportIndicator id-ClosedLoopMode2-SupportIndicator id-STTD-SupportIndicator id-CFNReportingIndicator id-CNOriginatedPage-PagingRgst id-InnerLoopDLPCStatus id-PropagationDelay id-RxTimingDeviationForTA id-timeSlot-ISCP id-CCTrCH-InformationItem-RL-FailureInd id-CCTrCH-InformationItem-RL-RestoreInd id-CommonMeasurementAccuracy id-CommonMeasurementObjectType-CM-Rprt id-CommonMeasurementObjectType-CM-Rqst id-CommonMeasurementObjectType-CM-Rsp id-CommonMeasurementType id-CongestionCause id-SFN id-SFNReportingIndicator id-InformationExchangeID id-InformationExchangeObjectType-InfEx-Rprt id-InformationExchangeObjectType-InfEx-Rgst id-InformationExchangeObjectType-InfEx-Rsp

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id-InformationReportCharacteristics ProtocolIE-ID ::= 291 id-InformationType ProtocolIE-ID ::= 292 id-neighbouring-LCR-TDD-CellInformation ProtocolIE-ID ::= 58 ProtocolIE-ID ::= 65 id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRgstTDD id-RL-LCR-InformationResponse-RL-SetupRspTDD ProtocolIE-ID ::= 66 id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD ProtocolIE-ID ::= 75 id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD ProtocolIE-ID ::= 76 ProtocolIE-ID ::= 77 id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD ProtocolIE-ID ::= 78 id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD ProtocolIE-ID ::= 79 id-USCH-LCR-InformationListIEs-RL-SetupRspTDD ProtocolIE-ID ::= 80 id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRgstTDD ProtocolIE-ID ::= 81 id-RL-LCR-InformationResponse-RL-AdditionRspTDD ProtocolIE-ID ::= 86 id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD ProtocolIE-ID ::= 87 id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD ProtocolIE-ID ::= 88 id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD ProtocolIE-ID ::= 89 id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD ProtocolIE-ID ::= 94 id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD ProtocolIE-ID ::= 96 id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD ProtocolIE-ID ::= 97 id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD ProtocolIE-ID ::= 98 id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD ProtocolIE-ID ::= 100 id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD ProtocolIE-ID ::= 101 id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD ProtocolIE-ID ::= 104 id-UL-Timeslot-LCR-InformationList-PhyChReconfRastTDD ProtocolIE-ID ::= 105 id-DL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD ProtocolIE-ID ::= 106 id-timeSlot-ISCP-LCR-List-DL-PC-Rgst-TDD ProtocolIE-ID ::= 138 id-TSTD-Support-Indicator-RL-SetupRqstTDD ProtocolIE-ID ::= 139 id-RestrictionStateIndicator ProtocolIE-ID ::= 142 id-Load-Value ProtocolIE-ID ::= 233 id-Load-Value-IncrDecrThres ProtocolIE-ID ::= 234 id-OnModification ProtocolIE-ID ::= 235 id-Received-Total-Wideband-Power-Value ProtocolIE-ID ::= 236 id-Received-Total-Wideband-Power-Value-IncrDecrThres ProtocolIE-ID ::= 237 id-SENSENMeasurementThresholdInformation ProtocolIE-ID ::= 238 id-Transmitted-Carrier-Power-Value ProtocolIE-ID ::= 239 id-Transmitted-Carrier-Power-Value-IncrDecrThres ProtocolIE-ID ::= 240 id-TUTRANGPSMeasurementThresholdInformation ProtocolIE-ID ::= 241 id-UL-Timeslot-ISCP-Value ProtocolIE-ID ::= 242 id-UL-Timeslot-ISCP-Value-IncrDecrThres ProtocolIE-ID ::= 243 id-Rx-Timing-Deviation-Value-LCR ProtocolIE-ID ::= 293 id-DPC-Mode-Change-SupportIndicator ProtocolIE-ID ::= 19 id-DL-PowerBalancing-UpdatedIndicator ProtocolIE-ID ::= 298 id-DL-ReferencePowerInformation ProtocolIE-ID ::= 299

END

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8.3.1 Radio Link Setup

8.3.1.1 General

This procedure is used for establishing the necessary resources in the DRNS for one or more radio links. The connection-oriented service of the signalling bearer shall be established in conjunction with this procedure.

8.3.1.2 Successful Operation



Figure 5: Radio Link Setup procedure: Successful Operation

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

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

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

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

Transport Channels Handling:

DCH(s):

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

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

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

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

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

The *Frame Handling Priority* IE defines the priority level that should be used by the DRNS to prioritise between different frames of the data frames of the DCHs in the downlink on the radio interface in congestion situations once the new RL(s) have been activated.

The Traffic Class IE should be used to determine the transport bearer characteristics to apply between DRNC and Node B for the related DCH or set of co-ordinated DCHs.

If the DCH Specific Info IE in the DCH Information IE includes the Guaranteed Rate Information IE, the DRNS shall treat the included IEs according to the following:

- If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.

- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the downlink of the DCH.

DSCH(s):

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

If the DSCH Information IE is included in the RADIO LINK SETUP REQUEST message, the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related DSCHs.

[TDD - USCH(s)]:

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

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Release 4 Physical Channels Handling:

[FDD - Compressed Mode]:

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the DRNS shall use the information to activate the indicated Transmission Gap Pattern Sequences(s) in the new RL. The received *CM Configuration Change CFN* IE refers to latest passed CFN with that value. The DRNS shall treat the received *TGCFN* IEs as follows:]

- [FDD - If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the DRNS shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]

- [FDD - If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the DRNS shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]

- [FDD - For all other Transmission Gap Pattern Sequences included in the *Active Pattern Sequence Information* IE, the DRNS shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE for the Transmission Gap Pattern Sequence.]

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

[FDD - DL Code Information]:

[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*".]

General:

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

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

Radio Link Handling:

Diversity Combination Control:

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[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 *Diversity Control Field* IE is set to "Must not", the DRNS shall not combine the RL with any other existing RL.]

[FDD - In the case of combining one or more RLs the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message with the *Diversity Indication* IE that the RL is combined with another RL RL for all RLs but the first 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 not be included for the first of the combined RLs, for which the *Transport Layer Address* IE and the *Binding ID* IE shall be included.]

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

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

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

[FDD-Transmit Diversity]:

[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.]

[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 Indicator* IE].

DL Power Control:

[FDD - If both the *Initial DL TX Power* IE and *Uplink SIR Target* IE are included 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 constrains 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. The DRNS shall not transmit with a higher power than indicated by the *Maximum DL TX Power IE* or lower than indicated by the *Minimum DL TX Power IE* on any DL DPCH of the RL except during compressed mode, when the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

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

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

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

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[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 on the Uu interface for the concerning RLS or Power Balancing is activated. No inner loop 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) and the power control procedure (see 8.3.7).]

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

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

[FDD - If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the DRNC shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the life time of the RL. If the *DPC Mode* IE is not present in the RADIO LINK SETUP REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]

Neighbouring Cell Handling:

If there are UMTS neighbouring cell(s) to the cell in which a Radio Link was established then:

- The DRNC shall include the *Neighbouring FDD Cell Information* IE and/or *Neighbouring TDD Cell Information* IE in the *Neighbouring UMTS Cell Information* IE for each neighbouring FDD cell and/or TDD cell respectively. In addition, if the information is available, the DRNC shall include the *Frame Offset* IE, *Primary CPICH Power* IE, *Cell Individual Offset* IE, *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE and *Closed Loop Mode2 Support Indicator* IE in the *Neighbouring FDD Cell Information* IE, and the *Frame Offset* IE, *Cell Information* IE.

- If a UMTS neighbouring cell is not controlled by the same DRNC, the DRNC shall also include the *CN PS Domain Identifier* IE and/or *CN CS Domain Identifier* IE which are the identifiers of the CN nodes connected to the RNC controlling the UMTS neighbouring cell.

- [FDD - The DRNC shall include the DPC Mode Change Support Indicator IE if the DRNC is aware that the neighbouring cell supports DPC mode change.]

For the UMTS neighbouring cells which are controlled by the DRNC, the DRNC shall report in the RADIO LINK SETUP RESPONSE message the restriction state of those cells, otherwise *Restriction state indicator* IE may be absent. The DRNC shall include the *Restriction state indicator* IE for the neighbouring cells which are controlled by the DRNC in the Neighbouring FDD Cell Information IE, the Neighbouring TDD Cell Information IE and the Neighbouring TDD Cell Information LCR IE.

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

General:

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

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[FDD - If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity for EDSCHPC IE, the DRNS shall activate enhanced DSCH power control, if supported, using the SSDT Cell Identity for EDSCHPC IE and SSDT Cell Identity Length IE as well as Enhanced DSCH PC IE in accordance with ref. [10] subclause 5.2.2. If the RADIO LINK SETUP REQUEST message includes both SSDT Cell Identity IE and SSDT Cell Identity for EDSCHPC IE, then the DRNS shall ignore the SSDT Cell Identity for EDSCHPC IE.]

[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 DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link established in a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK SETUP RESPONSE message.]

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

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

[TDD – If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include the *UARFCN* IE, the *Cell Parameter ID* IE,[3.84Mcps TDD - the *Sync Case* IE, the *SCH Time Slot* IE,] the *SCTD Indicator* IE, and the *PCCPCH Power* IE in the RADIO LINK SETUP RESPONSE message.]

[TDD - The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response* IE or *USCH Information Response* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the [3.84Mcps TDD - *Secondary CCPCH Info TDD LCR* IE] in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response* IE or *USCH Info TDD IE*] [1.28Mcps TDD – *Secondary CCPCH Info TDD LCR* IE] in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response* IE or *USCH Information Response* IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

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

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE and the UTRAN access point position for each of the established RLs in the RADIO LINK SETUP RESPONSE message.

If the DRNS need to limit the user rate in the uplink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed UL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK SETUP RESPONSE message for this Radio Link.

If the DRNS need to limit the user rate in the downlink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed DL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK SETUP RESPONSE message for this Radio Link.

If the *Permanent NAS UE Identity* IE is included in the RADIO LINK SETUP REQUEST message, the DRNS shall store the information for the considered UE Context for the lifetime of the UE Context.

If the RADIO LINK SETUP REQUEST message includes the *Permanent NAS UE Identity* IE and a *C-ID* IE corresponding to a cell reserved for operator use, the DRNC shall use this information to determine whether it can set up a Radio Link on this cell or not for the considered UE Context.

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Release 4 [FDD - Radio Link Set Handling]:

[FDD - The *First RLS Indicator* IE indicates if the concerning RL shall be considered part of the first RLS established towards this UE. The *First RLS Indicator* IE shall be used by the DRNS to determine the initial TPC pattern in the DL of the concerning RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.

[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 – The UL Uu synchronisation detection algorithm defined in ref. [10] subclause 4.3 shall for each of the established RL Set(s) use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set]. **Response Message:**

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 established.

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

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Release 4

Next update

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 Radio Link(s) related to one UE-UTRAN connection within a DRNS. This procedure shall use the signalling bearer connection for the relevant UE context.

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

8.3.4.2 Successful Operation



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

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

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

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

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

DCH Modification:

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

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

- If the *DCHs to Modify IE* includes the *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- If the *DCHs to Modify IE* includes the *ToAWE* IE for a DCH or a 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.

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

- If the *DCH Specific Info* IE includes the *Traffic Class* IE for a DCH to be modified, the DRNS should store this information for this DCH in the new configuration. The *Traffic Class* IE should be used to determine the transport bearer characteristics to apply between DRNC and Node B for the related DCH or set of co-ordinated DCHs.

- If the *DCH Specific Info* IE includes the *Transport Format Set* IE for the UL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.

- If the *DCH Specific Info* IE includes the *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.

- [FDD - If, in the *DCH Specific Info* IE, the *DRAC Control* IE is present and set to "requested" for at least one DCH and if the DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION READY message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link established in a cell where DRAC is active. If the DRNS does not support DRAC, DRNC shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]

- [TDD - If the DCH Specific Info IE includes the CCTrCH ID IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH.]

- [TDD If the DCH Specific Info IE includes the CCTrCH ID IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH.]
- If the *DCH Specific Info* IE includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:

- If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate in the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.

- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate in the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.

DCH Addition:

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

- The DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.

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

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

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

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

- The DRNS should store the *Traffic Class* IE received for a DCH to be added in the new configuration. The *Traffic Class* IE should be used to determine the transport bearer characteristics to apply between DRNC and Node B for the related DCH or set of co-ordinated DCHs.

- 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.

- [TDD - The DRNC shall include the Secondary CCPCH Info TDD IE in the RADIO LINK RECONFIGURATION READY message if at least one DSCH or USCH exists in the new configuration.]

- [FDD - If the *DRAC Control* IE is set to "requested" in the *DCH Specific Info* IE for at least one DCH and if the DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION READY message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link supported by a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]

- If the DCH Specific Info IE includes the Guaranteed Rate Information IE, the DRNS shall treat the included IEs according to the following:

- If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate of the uplink of the DCH *Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE, the DRNS shall not limit the user rate of the downlink of the DCH.

- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate of the uplink of the DCH *Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.

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DCH Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DCH to Delete*, the DRNS shall not include the referenced DCHs in the new configuration. If all of the DCHs belonging to a set of co-ordinated DCHs are requested to be deleted, the DRNS shall not include this set of co-ordinated DCHs in the new configuration.

Physical Channel Modification:

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

- [FDD - If the UL DPCH Information IE includes the Uplink Scrambling Code IE, the DRNS shall apply this Uplink Scrambling Code to the new configuration.]

- [FDD - If the *UL DPCH Information* IE includes the *Min UL Channelisation Code Length* IE, the DRNS shall apply the new Min UL Channelisation Code Length in the new configuration. The DRNS shall apply the contents of the *Max Number of UL DPDCHs* IE (if it is included) in the new configuration.]

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

- [FDD - If the UL DPCH Information IE includes the UL DPCCH Slot Format IE, the DRNS shall apply the new Uplink DPCCH Slot Format to the new configuration.]

- [FDD – If the UL DPCH Information IE includes the UL SIR Target IE, the DRNS shall set the UL inner loop power control to the UL SIR target when the new configuration is being used.]

- [FDD – If the UL DPCH Information IE includes the Puncture Limit IE, the DRNS shall apply the value in the uplink of the new configuration.]

- [FDD - If the UL DPCH Information IE includes the Diversity Mode IE, the DRNS shall apply diversity according to the given value.]

- [FDD – If the UL DPCH Information IE includes an SSDT Cell Identity Length IE and/or an S-Field Length IE, the DRNS shall apply the values in the new configuration.]

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

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

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

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

- [FDD – If the *DL DPCH Information* IE includes the *DL DPCH Slot Format* IE, the DRNS shall apply the new slot format used in DPCH in DL.]

- [FDD – If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE, the DRNS shall apply the new signalling mode of the TFCI.]

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- [FDD – If the *DL DPCH Information* IE includes the *Multiplexing Position* IE, the DRNS shall apply the new parameter to define whether fixed or flexible positions of transport channels shall be used in the physical channel.]

- [FDD – If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to 'Used', the DRNS shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]

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

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

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

[TDD - UL/DL CCTrCH Modification]

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

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

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

[1.28Mcps TDD – If the UL CCTrCH to Modify IE includes the UL SIR Target IE, the DRNS shall use the value for the UL inner loop power control according [12] and [22] when the new configuration is being used.]

[TDD – UL/DL CCTrCH Addition]

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

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

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes a *DL CCTrCH to Add* IE, the DRNS shall set the TPC step size of that CCTrCH to the same value as the lowest numbered DL CCTrCH in the current configuration.]

[1.28Mcps TDD – The DRNS shall use the UL SIR Target IE in the UL CCTrCH to Add IE as the UL SIR value for the inner loop power control for this CCTrCH according [12] and [22] in the new configuration.]

[TDD – UL/DL CCTrCH Deletion]

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

SSDT Activation/Deactivation:

- [FDD - If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE", the DRNS shall activate SSDT, if supported, using the *SSDT Cell Identity* IE in *RL Information* IE, and the *SSDT Cell Identity Length* IE in *UL DPCH Information* IE, in the new configuration.

- [FDD - If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT not Active in the UE", the DRNS shall deactivate SSDT in the new configuration.]

DSCH Addition/Modification/Deletion:

If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH to modify*, *DSCH to add* or *DSCH to delete* IEs, then the DRNS shall use this information to add/modify/delete the indicated DSCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs. If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH to Add* IE, then the DRNS shall use the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE and *TrCH Source Statistics Descriptor* IE to define a set of DSCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths. If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH to add* IE, then the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related DSCHs.

[FDD - If the DSCHs to Add IE includes the Enhanced DSCH PC IE, the DRNS shall activate enhanced DSCH power control in accordance with ref. [10] subclause 5.2.2, if supported, using either:]

[FDD - the SSDT Cell Identity for EDSCHPC IE in the RL Information IE, if the SSDT Cell Identity IE is not included in the RL Information IE or]

- [FDD - the SSDT Cell Identity IE in the RL Information IE, if both the SSDT Cell Identity IE and the SSDT Cell Identity for EDSCHPC are included in the RL Information IE.]

[FDD - together with the *SSDT Cell Identity Length* IE in *UL DPCH Information* IE, and *Enhanced DSCH PC* IE, in the new configuration.] If the RADIO LINK RECONFIGURATION PREPARE message includes any *DSCH to Modify* IE, then the DRNS shall treat them each as follows:

- [FDD – If the DSCH to Modify IE includes any DSCH Info IEs, then the DRNS shall treat them each as follows:]

- [FDD – If the *DSCH Info* IE includes any of the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE or *TrCH Source Statistics Descriptor* IE, the DNRS shall use them to update the set of DSCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths.]

- [FDD – If the DSCH Info IE includes any of the Transport Format Set IE or BLER IE, the DRNS shall apply the parameters to the new configuration.]

- [FDD – If the DSCH Info IE includes the *Traffic Class* IE, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B for the related DSCHs.]

- [FDD – If the DSCH to Modify IE includes the PDSCH RL ID IE, then the DRNS shall use it as the new DSCH RL identifier.]

- [FDD – If the DSCH to Modify IE includes the Transport Format Combination Set IE, then the DRNS shall use it as the new Transport Format Combination Set associated with the DSCH.]

- [TDD – If the DSCHs to Modify IE includes the CCTrCH Id IE, then the DRNS shall map the DSCH onto the referenced DL CCTrCH.]

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- [TDD – If the *DSCHs to Modify* IE includes any of the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE or *TrCH Source Statistics Descriptor* IE, the DNRS shall use them to update the set of DSCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths.]

[TDD – If the DSCHs to Modify IE includes any of the Transport Format Set IE or BLER IE, the DRNS shall apply the parameters to the new configuration.]

- [TDD – If the *DSCHs to Modify* IE includes the *Traffic Class* IE, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B for the related DSCHs.]

- [TDD – The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if a DSCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

- [FDD - If the *DSCHs to Modify* IE includes the *Enhanced DSCH PC Indicator* IE set to "Enhanced DSCH PC Active in the UE", the DRNS shall activate enhanced DSCH power control in accordance with ref. [10] subclause 5.2.2, if supported, using either:]

- [FDD - the SSDT Cell Identity for EDSCHPC IE in RL Information IE, if the SSDT Cell Identity IE is not included in the RL Information IE or]

- [FDD - the SSDT Cell Identity IE in the RL Information IE, if both the SSDT Cell Identity IE and the SSDT Cell Identity for EDSCHPC are included in the RL Information IE.]

[FDD - together with the SSDT Cell Identity Length IE in UL DPCH Information IE, and Enhanced DSCH PC IE, in the new configuration.]

- [FDD - If the DSCHs to Modify IE includes the Enhanced DSCH PC Indicator IE set to "Enhanced DSCH PC not Active in the UE", the DRNS shall deactivate enhanced DSCH power control 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. **[TDD] USCH Addition/Modification/Deletion**

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

Indicator IE and *TrCH Source Statistics Descriptor* IE to define a set of USCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths. If the RADIO LINK RECONFIGURATION PREPARE message includes any *USCH to Modify* IE, then the DRNS shall treat them each as follows:

- If the USCH to Modify IE includes any of the Allocation/Retention Priority IE, Scheduling Priority Indicator IE or TrCH Source Statistics Descriptor IE, the DNRS shall use them to update the set of USCH Priority classes.

- If the USCH to Modify IE includes any of the CCTrCH Id IE, Transport Format Set IE, BLER IE or RB Info IE, the DRNS shall apply the parameters to the new configuration.

- [TDD - The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if a USCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

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

General

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

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

Any allowed rate for the uplink of a DCH provided for the old configuration will not be valid for the new configuration. If the DRNS need to limit the user rate in the uplink of a DCH in the new configuration for a Radio Link, the DRNC shall include the *Allowed UL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK RECONFIGURATION READY message for this Radio Link.

Any allowed rate for the downlink of a DCH provided for the old configuration will not be valid for the new configuration. If the DRNS need to limit the user rate in the downlink of a DCH in the new configuration for a Radio Link, the DRNC shall include the *Allowed DL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK RECONFIGURATION READY message for this Radio Link.

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

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

If the DL TX power upper or lower limit has been re-configured the DRNC shall return this in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE respectively in the RADIO LINK RECONFIGURATION RESPONSE message. The DRNS shall not transmit with a higher power than indicated by the *Maximum DL TX Power IE* or lower than indicated by the *Minimum DL TX Power IE* on any DL DPCH of the RL [FDD – except during compressed mode, when the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

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8.3.7 Unsynchronised Radio Link Reconfiguration

8.3.7.1 General

The Unsynchronised Radio Link Reconfiguration procedure is used to reconfigure Radio Link(s) related to one UE-UTRAN connection within a DRNS. The procedure is used when there is no need to synchronise the time of the switching from the old to the new radio link configuration in the cells used by the UE-UTRAN connection within the DRNS.

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

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

8.3.7.2 Successful Operation



Figure 14: 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 the time corresponding to the value of the *Allowed Queuing Time* IE before starting to execute the request.

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

DCH Modification:

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

- If the *DCHs to Modify* IE includes multiple *DCH Specific Info* IEs, then the DRNS shall treat the DCHs 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 *DCHs to Modify* IE includes the *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be modified, the DRNS shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- If the *DCHs to Modify* IE includes the *ToAWS* IE for a DCH or a 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.

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- If the *DCHs to Modify* IE includes the *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.

- If the *DCH Specific Info* IE 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 *DCH Specific Info* IE 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 *DCH Specific Info* IE includes the *Frame Handling Priority* IE, the DRNS should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.

- If the *DCH Specific Info* IE includes the *Traffic Class* IE, the DRNC should use this information to determine the transport bearer characteristics to apply between DRNC and Node B for the related DCH or set of co-ordinated DCHs.

- [FDD - If the *DRAC Control* IE is present and set to "requested" in *DCH Specific Info* IE for at least one DCH, and if the DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION RESPONSE message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link supported by a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK RECONFIGURATION RESPONSE message.]

- [TDD - If the DCH Specific Info IE includes the CCTrCH ID IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH.]

- [TDD - If the DCH Specific Info IE includes the CCTrCH ID IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH.]

- If the *DCH Specific Info* IE includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:

- If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate in the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.

- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user in the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.

DCH Addition:

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

- The DRNS shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCH in the new configuration.

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- If the *DCHs to Add* IE includes 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 all of them can be in the new configuration.

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

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

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

- The *Traffic Class* IE should be used to determine the transport bearer characteristics to apply between DRNC and Node B for the related DCH or set of co-ordinated DCHs.

- 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 *DCH Specific Info* IE for at least one DCH, and if the DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION RESPONSE message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link supported by a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK RECONFIGURATION RESPONSE message.

- If the DCH Specific Info IE includes the Guaranteed Rate Information IE, the DRNS shall treat the included IEs according to the following:

- If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.

- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate of the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.

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DCH Deletion:

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCH to delete* IE, the DRNS shall not include the referenced DCHs in the new configuration. If all of the DCHs belonging to a set of co-ordinated DCHs are requested to be deleted, the DRNS shall not include this set of co-ordinated DCHs in the new configuration.

Physical Channel Modification:

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

- [FDD - If the UL DPCH Information IE includes the 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 a *DL DPCH Information* IE, then the DRNS shall apply the parameters to the new configuration as follows:]

- [FDD - If the *DL DPCH Information* IE includes the *TFCS* IE for the DL, the DRNS shall apply the new TFCS in the Downlink of the new configuration.]

- [FDD - If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE for the DL, the DRNS shall apply the new TFCI Signalling Mode in the Downlink of the new configuration.]

- [FDD – If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to 'Used', the DRNS shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]

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

[FDD - If the RADIO LINK RECONFIGURATION 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 This new Compressed Mode Configuration shall be valid in the DRNS until the next Compressed Mode Configuration is configured in the DRNS or last Radio Link is deleted.]

[FDD - If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, and if the *Downlink Compressed Mode Method* in one or more Transmission Gap Pattern Sequence within the *Transmission Gap Pattern Sequence Information* IE is set to 'SF/2', the DRNC shall include the *DL Code Information* IE in the RADIO LINK RECONFIGURATION RESPONSE message, without changing any of the DL Channelisation Codes or DL Scrambling Codes, indicating for each DL Channelisation Code whether the alternative scrambling code shall be used or not.]

[TDD - UL/DL CCTrCH Modification]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH Information to modify* IEs or */DL CCTrCH Information to modify* IEs and it includes *TFCS* IE, the DRNS shall apply the included *TFCS* IE as the new value to the referenced CCTrCH.] [TDD – UL/DL CCTrCH Deletion]

[TDD - If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH Information to delete* IEs or *DL CCTrCH Information to delete* IEs, the DRNS shall remove the referenced CCTrCH in the new configuration.] General:

The DRNS shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE for any Transport Channel being added, or any Transport Channel being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE. The detailed frame protocol handling during transport bearer replacement is described in [4], subclause 5.10.1.

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

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In case of a Radio Link being combined with another Radio Link within the DRNS, the DRNC shall return the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message only for one of the combined Radio Links.

Any allowed rate for the uplink of a DCH provided for the old configuration will not be valid for the new configuration. If the DRNS need to limit the user rate in the uplink of a DCH in the new configuration for a Radio Link, the DRNC shall include the *Allowed UL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK RECONFIGURATION RESPONSE message for this Radio Link.

Any allowed rate for the downlink of a DCH provided for the old configuration will not be valid for the new configuration. If the DRNS need to limit the user rate in the downlink of a DCH in the new configuration for a Radio Link, the DRNC shall include the *Allowed DL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK RECONFIGURATION RESPONSE message for this Radio Link.

If the requested modifications are allowed by the DRNS, and if the DRNS has successfully allocated the required resources and changed to the new configuration, the DRNC 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 the DRNC 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 READY message. The DRNS shall not transmit with a higher power than indicated by the *Maximum DL TX Power IE* or lower than indicated by the *Minimum DL TX Power IE* on any DL DPCH of the RL [FDD – except during compressed mode, when the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k].

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9.1.11 RADIO LINK RECONFIGURATION PREPARE

9.1.11.1 FDD Message

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and	Description		Criticality
			Reference			
Message Type	М		9.2.1.40		YES	reject
Transaction ID	M		9.2.1.59		-	
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL DPCH Information		01			YES	reject
>UL Scrambling Code	0		9.2.2.53		-	
>UL SIR Target	0		Uplink SIR		-	
Min III Channelization			9.2.1.09			
Code Length	0		9.2.2.25		_	
>Max Number of UL	C –		9.2.2.24		-	
DPDCHs	CodeLen					
>Puncture Limit	0		9.2.1.46	For the UL.	_	
>TFCS	0		9.2.1.63	TFCS for the	-	
				UL.		
>UL DPCCH Slot Format	0		9.2.2.52		_	
>Diversity Mode	0		9.2.2.8		_	
>SSDT Cell Identity Length	0		9.2.2.41		_	
>S-Field Length	0		9.2.2.36		-	
DL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.63	TFCS for the DL.	_	
>DL DPCH Slot Format	0		9.2.2.9		_	
>Number of DL	0		9.2.2.26A		_	
Channelisation Codes						
>TFCI Signalling Mode	0		9.2.2.46		_	
>TFCI Presence	C-		9.2.1.55		_	
	SlotFormat					
>Multiplexing Position	0		9.2.2.26		_	
>Limited Power Increase	0		9.2.2.21A		-	
DCHs to Modify	0		FDD DCHs to Modify 9.2.2.13C		YES	reject
DCHs to Add	0		DCH FDD Information		YES	reject

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
			9.2.2.4A			
DCHs to Delete		0 <maxnoof DCHs></maxnoof 			GLOBAL	reject
>DCH ID	М		9.2.1.16		_	
DSCHs to Modify		01			YES	reject
>DSCH Info		0 <maxnoof DSCHs></maxnoof 			-	
>>DSCH ID	М		9.2.1.26A		—	
>>TrCh Source Statistics Descriptor	0		9.2.1.65		-	
>>Transport Format Set	0		9.2.1.64	For DSCH	-	
>>Allocation/ Retention Priority	0		9.2.1.1		-	
>>Scheduling Priority Indicator	0		9.2.1.51A		-	
>>BLER	0		9.2.1.4		—	
>>Transport Bearer Request Indicator	М		9.2.1.61		-	
>>Traffic Class	<u>0</u>		<u>9.2.1.58A</u>		<u>YES</u>	ignore
>PDSCH RL ID	0		RL ID 9.2.1.49		-	
>TFCS	0		9.2.1.63	For DSCH	—	
>Enhanced DSCH PC Indicator	0		9.2.2.13F		YES	ignore
>Enhanced DSCH PC	C- EDSCHPC On		9.2.2.13D		YES	ignore
DSCHs to Add	0		DSCH FDD Information 9.2.2.13A		YES	reject
DSCHs to Delete		01			YES	reject
>DSCH Info		1 <maxnoof DSCHs></maxnoof 			-	
>>DSCH ID	М		9.2.1.26A		_	
RL Information		0 <maxnoof RLs></maxnoof 			EACH	reject
>RL ID	М		9.2.1.49		-	
>SSDT Indication	0		9.2.2.42		-	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>SSDT Cell Identity	C - SSDTIndON		9.2.2.40		—	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.48		_	
>SSDT Cell Identity for EDSCHPC	C- EDSCHPC		9.2.2.40A		YES	ignore
Transmission Gap Pattern Sequence Information	0		9.2.2.47A		YES	reject

Condition	Explanation
SSDTIndON	The IE shall be present if the SSDT Indication IE is
	set to "SSDT Active in the UE".
CodeLen	The IE shall be present only if the Min UL
	Channelisation Code length IE equals to 4.
SlotFormat	The IE shall only be present if the DL DPCH Slot
	Format IE is equal to any of the values from 12 to 16.
Diversity mode	The IE shall be present if Diversity Mode IE is present
-	in the UL DPCH Information IE and is not equal to
	"none".
EDSCHPCOn	The IE shall be present if the Enhanced DSCH PC
	Indicator IE is set to "Enhanced DSCH PC Active in
	the UE".
EDSCHPC	The IE shall be present if Enhanced DSCH PC IE is
	present in either the DSCHs to Modify IE or the
	DSCHs to Add IE.

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.		

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Release 4 9.1.11.2 TDD Message

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and	Description		Criticality
Massaura Trusa			Reference		VEO	
Message Type	M		9.2.1.40		YES	reject
Iransaction ID	M		9.2.1.59		-	
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL CCTrCH to Add		0 <maxno ofCCTrCH s></maxno 		For DCH and USCH	EACH	notify
>CCTrCH ID	М	-	9.2.3.2		_	
>TFCS	М		9.2.1.63	For the UL.	_	
>TFCI Coding	M		9.2.3.11		_	
>Puncture Limit	M		9.2.1.40		_	
> UL SIR Target	Ō		Uplink SIR 9.2.1.69	Mandatory for 1.28Mcps TDD; not applicable for 3.84Mcps TDD	YES	reject
UL CCTrCH to Modify		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.2		—	
>TFCS	0		9.2.1.63	For the UL.	—	
>TFCI Coding	0		9.2.3.11		—	
>Puncture Limit	0		9.2.1.46		—	
> UL SIR Target	0		Uplink SIR 9.2.1.69	For 1.28Mcps TDD only	YES	reject
UL CCTrCH toDdelete		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.2		—	
DL CCTrCH to Add		0 <maxno ofCCTrCH s></maxno 		For DCH and DSCH	EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
>TFCS	М		9.2.1.63	For the DL.	_	
>TFCI Coding	М		9.2.3.11		_	
>Puncture Limit	М		9.2.1.46		_	
>TPC CCTrCH List		0 to <maxnoc< td=""><td></td><td>List of uplink CCTrCH</td><td>_</td><td></td></maxnoc<>		List of uplink CCTrCH	_	

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			Reference	Description		Onticality
		CTrCH>		which provide TPC		
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.2		_	
DL CCTrCH to Modify		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	Μ		9.2.3.2		—	
>TFCS	0		9.2.1.63	For the DL.	—	
>TFCI Coding	0		9.2.3.11		—	
>Puncture Limit	0		9.2.1.46		_	
>TPC CCTrCH List		0 to <maxnoc CTrCH></maxnoc 		List of uplink CCTrCH which provide TPC	_	
>>TPC CCTrCH ID	М		CCTrCH ID 9.2.3.2		-	
DL CCTrCH to Delete		0 <maxno ofCCTrCH s></maxno 			EACH	notify
>CCTrCH ID	М		9.2.3.2		_	
DCHs to Modify	0		TDD DCHs to Modify 9.2.3.8B		YES	reject
DCHs to Add	0		DCH TDD Information 9.2.3.2A		YES	reject
DCHs to Delete		0 <maxno ofDCHs></maxno 			GLOBAL	reject
>DCH ID	Μ		9.2.1.16		_	
DSCHs to Modify		0 <maxno ofDSCHs></maxno 			GLOBAL	reject
>DSCH ID	М		9.2.1.26A		-	
>CCTrCH ld	0		9.2.3.2	DL CCTrCH in which the DSCH is mapped.	_	
> IrCh Source Statistics	0		9.2.1.65		-	

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			Reference	Description		Criticality
Descriptor						
>Transport Format Set	0		9.2.1.64		_	
>Allocation/Retention Priority	0		9.2.1.1		_	
>Scheduling Priority	0		9.2.1.51A		_	
Indicator						
>BLER	0		9.2.1.4		-	
>Transport Bearer	Μ		9.2.1.61		-	
Request Indicator						
>Traffic Class	<u>0</u>		<u>9.2.1.58A</u>		YES	ignore
DSCHs to Add	0		DSCH		YES	reject
			TDD			
			Information			
		_	9.2.3.3a			
DSCHs to Delete		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
2001112		ofDSCHs>				
>DSCH ID	M		9.2.1.26A		-	
USCHs to Modify		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
		ofUSCHs>				
>USCH ID	M		9.2.3.14		_	
>CCTrCH Id	0		9.2.3.2	<u>U</u> L CC IrCH	-	
				in which the		
				USCHIS		
>TrCh Source Statistics	0		02165	mappeu.		
Descriptor	0		9.2.1.05		_	
STransport Format Set	0		92164		_	
>Allocation/Retention Priority	0		9211		_	
>Scheduling Priority	0		921514		_	
Indicator	Ŭ		0.2.1.017			
>BLER	0		9.2.1.4		_	
>Transport Bearer	M		9.2.1.61		_	
Request Indicator						
>RB Info		0 to		All Radio	_	
		<maxnoof< td=""><td></td><td>Bearers</td><td></td><td></td></maxnoof<>		Bearers		
		RB>		using this		
				USCH		
>>RB Identity	M		9.2.3.5B		-	
USCHs to Add	0		USCH		YES	reject
			Information			
	1	1	9.2.3.15			

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
USCHs to Delete		0 <maxno ofUSCHs></maxno 			GLOBAL	reject
>USCH ID	М		9.2.3.14		-	

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

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9.2.1.58A Traffic Class

This IE indicates the type of application the Radio Bearer is optimised for.

IE/Group Name	Presence	<u>Range</u>	IE type and reference	Semantics description
>Traffic Class			ENUMERATED	
			(conversational,	
			streaming,	
			interactive,	
			background,)	

Next update

9.2.2.4A DCH FDD Information

The DCH FDD Information IE provides information for DCHs to be established.

IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned Criticality
			reference	description		Criticality
DCH FDD Information		1 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-	
		ofDCHs>				
>Payload CRC Presence Indicator	М		9.2.1.42		-	
>UL FP Mode	М		9.2.1.67		-	
>ToAWS	М		9.2.1.58		-	
>ToAWE	Μ		9.2.1.57		-	
>DCH Specific Info		1 <maxno ofDCHs></maxno 			-	
>>DCH ID	М		9.2.1.16			
>>TrCh Source Statistics Descriptor	М		9.2.1.65		-	
>>Transport Format Set	М		9.2.1.64	For the UL.	_	
>>Transport Format Set	М		9.2.1.64	For the DL.	-	
>>BLER	М		9.2.1.4	For the UL.		
>>BLER	Μ		9.2.1.4	For the DL.	_	
>>Allocation/Retention Priority	Μ		9.2.1.1		_	
>>Frame Handling Priority	Μ		9.2.1.29		_	
>>QE-Selector	Μ		9.2.1.46A		_	
>>DRAC control	Μ		9.2.2.13		_	
>>Guaranteed Rate Information	0		9.2.1.30M		YES	ignore
>>Traffic Class	M		<u>9.2.1.58A</u>		YES	<u>ignore</u>

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

Next update

9.2.2.13A DSCH FDD Information

The DSCH FDD Information IE provides information for DSCHs to be established.

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
DSCH Specific FDD Information		1 <maxno ofDSCHs></maxno 			_	
>DSCH ID	M		9.2.1.26A		_	
>TrCh Source Statistics Descriptor	Μ		9.2.1.65		_	
>Transport Format Set	М		9.2.1.64	For DSCH	_	
>Allocation/Retention Priority	Μ		9.2.1.1		_	
>Scheduling Priority Indicator	Μ		9.2.1.51A		_	
>BLER	M		9.2.1.4		-	
>Traffic Class	M		<u>9.2.1.58A</u>		YES	ignore
PDSCH RL ID	М		RL ID 9 2 1 49		-	
TFCS	Μ		9.2.1.63	For DSCH	_	
>Enhanced DSCH PC	0		9.2.2.13D		YES	ignore

Range bound	Explanation
MaxnoofDSCHs	Maximum number of DSCHs for one UE.

Next update

9.2.2.13C FDD DCHs to Modify

The FDD DCHs to Modify IE provides information for DCHs to be modified.

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
			reference			
FDD DCHs to Modify		1 <maxno ofDCHs></maxno 			_	
>UL FP Mode	0		9.2.1.67		_	
>ToAWS	0		9.2.1.58		_	
>ToAWE	0		9.2.1.57		_	
>Transport Bearer Request Indicator	М		9.2.1.61		_	
>DCH Specific Info		1 <maxno ofDCHs></maxno 			_	
>>DCH ID	Μ		9.2.1.16		_	
>>Transport Format Set	0		9.2.1.64	For the UL.	_	
>>Transport Format Set	0		9.2.1.64	For the DL.	_	
>>Allocation/Retention Priority	0		9.2.1.1		—	
>>Frame Handling Priority	0		9.2.1.29		—	
>>DRAC Control	0		9.2.2.13		_	
>>Guaranteed Rate Information	0		9.2.1.30M		YES	ignore
>>Traffic Class	<u>0</u>		9.2.1.58A		YES	ignore

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

Next update

9.2.3.2A DCH TDD Information

The DCH TDD Information IE provides information for DCHs to be established.

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
DCH Information		1 <maxno ofDCHs></maxno 			-	
>Payload CRC Presence Indicator	М		9.2.1.42		-	
>UL FP Mode	Μ		9.2.1.67		_	
>ToAWS	М		9.2.1.58		_	
>ToAWE	М		9.2.1.57		_	
>DCH Specific Info		1 <maxno ofDCHs></maxno 			-	
>>DCH ID	М		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	М		9.2.1.65		_	
>>Transport Format Set	М		9.2.1.64	For the UL.	_	
>>Transport Format Set	М		9.2.1.64	For the DL.	_	
>>BLER	Μ		9.2.1.4	For the UL.	_	
>>BLER	Μ		9.2.1.4	For the DL.	_	
>>Allocation/Retention Priority	Μ		9.2.1.1		_	
>>Frame Handling Priority	Μ		9.2.1.29		_	
>>QE-Selector	C- CoorDCH		9.2.1.46A		-	
>>Guaranteed Rate Information	0		9.2.1.30M		YES	ignore
>>Traffic Class	M		9.2.1.58A		YES	ignore

Condition	Explanation
CoorDCH	The IE shall be present if this DCH is part of a set of coordinated DCHs (number of instances of the <i>DCH Specific Info</i> IE is greater than 1).

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

Next update

9.2.3.3a DSCH TDD Information

The DSCH TDD Information IE provides information for DSCHs to be established.

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
			reference			
DSCH TDD Information		1 <maxno ofDSCHs></maxno 			_	
>DSCH ID	М		9.2.1.26A		_	
>CCTrCH ID	М		9.2.3.2	DL CCTrCH in which the DSCH is mapped.	_	
>TrCh Source Statistics Descriptor	М		9.2.1.65		_	
>Transport Format Set	М		9.2.1.64		—	
>Allocation/Retention Priority	М		9.2.1.1		—	
>Scheduling Priority Indicator	Μ		9.2.1.51A		—	
>BLER	Μ		9.2.1.4		_	
>Traffic Class	M		<u>9.2.1.58A</u>		YES	<u>ignore</u>

Range bound	Explanation
MaxnoofDSCHs	Maximum number of DSCHs for one UE.
Next update

9.2.3.8B TDD DCHs to Modify

The *TDD DCHs to Modify* IE provides information for DCHs to be modified.

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
TDD DCHs to Modify		1 <maxno ofDCHs></maxno 			_	
>UL FP Mode	0		9.2.1.67		—	
>ToAWS	0		9.2.1.58		-	
>ToAWE	0		9.2.1.57		_	
>Transport Bearer Request Indicator	Μ		9.2.1.61		_	
>DCH Specific Info		1 <maxno ofDCHs></maxno 			-	
>>DCH ID	Μ		9.2.1.16		—	
>>CCTrCH ID	0		9.2.3.2	UL CCTrCH in which the DCH is mapped.	_	
>>CCTrCH ID	0		9.2.3.2	DL CCTrCH in which the DCH is mapped	_	
>>Transport Format Set	0		9.2.1.64	For the UL.	_	
>>Transport Format Set	0		9.2.1.64	For the DL.	-	
>>Allocation/Retention Priority	0		9.2.1.1		—	
>>Frame Handling Priority	0		9.2.1.29		_	
>>Traffic Class	<u>0</u>		<u>9.2.1.58A</u>		YES	ignore

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

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9.3.3 PDU Definitions

-- PDU definitions for RNSAP.

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

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS

```
Active-Pattern-Sequence-Information,
AllocationRetentionPriority,
AllowedQueuingTime,
Allowed-Rate-Information,
AlphaValue,
BLER,
SCTD-Indicator,
BindingID,
C-ID,
C-RNTI,
CCTrCH-ID,
CFN,
ClosedLoopModel-SupportIndicator,
ClosedLoopMode2-SupportIndicator,
Closedlooptimingadjustmentmode,
CN-CS-DomainIdentifier,
CN-PS-DomainIdentifier,
CNDomainType,
Cause,
CellParameterID,
ChipOffset,
CommonMeasurementAccuracy,
CommonMeasurementType,
CommonMeasurementValue,
CommonMeasurementValueInformation,
CongestionCause,
```

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CriticalityDiagnostics, D-RNTI, D-RNTI-ReleaseIndication. DCH-FDD-Information. DCH-ID, DCH-InformationResponse, DCH-TDD-Information, DL-DPCH-SlotFormat, DL-TimeslotISCP, DL-Power, DL-ScramblingCode, DL-Timeslot-Information, DL-TimeslotLCR-Information, DL-TimeSlot-ISCP-Info, DL-TimeSlot-ISCP-LCR-Information, DPC-Mode, DPC-Mode-Change-SupportIndicator, DPCH-ID, DRACControl, DRXCycleLengthCoefficient, DedicatedMeasurementType, DedicatedMeasurementValue, DedicatedMeasurementValueInformation, DiversityControlField, DiversityMode, DSCH-FDD-Information, DSCH-FDD-InformationResponse, DSCH-FlowControlInformation, DSCH-FlowControlItem, DSCH-TDD-Information, DSCH-ID, SchedulingPriorityIndicator, EnhancedDSCHPC, EnhancedDSCHPCCounter, EnhancedDSCHPCIndicator, EnhancedDSCHPCWnd, EnhancedDSCHPowerOffset, FACH-FlowControlInformation, FDD-DCHs-to-Modify, FDD-DL-ChannelisationCodeNumber, FDD-DL-CodeInformation, FDD-S-CCPCH-Offset, FDD-TPC-DownlinkStepSize, FirstRLS-Indicator, FNReportingIndicator, FrameHandlingPriority, FrameOffset, GA-AccessPointPosition, GA-Cell, GA-CellAdditionalShapes, IMSI,

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InformationExchangeID, InformationReportCharacteristics, InformationType, InnerLoopDLPCStatus, L3-Information, LimitedPowerIncrease, MaximumAllowedULTxPower, MaxNrDLPhysicalchannels, MaxNrOfUL-DPCHs, MaxNrTimeslots, MaxNrULPhysicalchannels, MeasurementFilterCoefficient, MeasurementID, MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftLCR, MinimumSpreadingFactor, MinUL-ChannelisationCodeLength, MultiplexingPosition, NeighbouringFDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation, Neighbouring-GSM-CellInformation, Neighbouring-UMTS-CellInformation, NrOfDLchannelisationcodes, PagingCause, PagingRecordType, PDSCHCodeMapping, PayloadCRC-PresenceIndicator, PCCPCH-Power, PC-Preamble, Permanent-NAS-UE-Identity, PowerAdjustmentType, PowerOffset, PrimaryCCPCH-RSCP, PrimaryCPICH-EcNo, PrimaryCPICH-Power, PrimaryScramblingCode, PropagationDelay, PunctureLimit, OE-Selector, RANAP-RelocationInformation, RB-Info, RL-ID, RL-Set-ID, RNC-ID, RepetitionLength, RepetitionPeriod, ReportCharacteristics, Received-total-wide-band-power, RequestedDataValue, RequestedDataValueInformation,

RxTimingDeviationForTA, S-FieldLength, S-RNTI, SCH-TimeSlot, SAI, SFN, Secondary-CCPCH-Info, Secondary-CCPCH-Info-TDD, Secondary-LCR-CCPCH-Info-TDD, SpecialBurstScheduling, SSDT-CellID, SSDT-CellID-Length, SSDT-Indication, SSDT-SupportIndicator, STTD-Indicator, STTD-SupportIndicator, AdjustmentPeriod, ScaledAdjustmentRatio, MaxAdjustmentStep, SecondaryCCPCH-SlotFormat, SRB-Delay, SyncCase, SynchronisationConfiguration, TDD-ChannelisationCode, TDD-DCHs-to-Modify, TDD-DL-Code-Information, TDD-DPCHOffset, TDD-PhysicalChannelOffset, TDD-TPC-DownlinkStepSize, TDD-ChannelisationCodeLCR, TDD-DL-Code-LCR-Information, TDD-UL-Code-Information, TDD-UL-Code-LCR-Information, TFCI-Coding, TFCI-Presence, TFCI-SignallingMode, TimeSlot, TimeSlotLCR, TimingAdvanceApplied, TOAWE, TOAWS, TrafficClass, TransmitDiversityIndicator, TransportBearerID, TransportBearerRequestIndicator, TFCS, Transmission-Gap-Pattern-Sequence-Information, TransportFormatManagement, TransportFormatSet, TransportLayerAddress,

TrCH-SrcStatisticsDescr,

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TSTD-Indicator, TSTD-Support-Indicator, UARFCN, UC-ID, UL-DPCCH-SlotFormat, UL-SIR, UL-FP-Mode, UL-PhysCH-SF-Variation, UL-ScramblingCode, UL-Timeslot-Information, UL-TimeslotLCR-Information, UL-TimeSlot-ISCP-Info, UL-TimeSlot-ISCP-LCR-Info, URA-ID, URA-Information, USCH-ID, USCH-Information FROM RNSAP-IEs PrivateIE-Container{}, ProtocolExtensionContainer{}, ProtocolIE-ContainerList{}, ProtocolIE-ContainerPair{}, ProtocolIE-ContainerPairList{}, ProtocolIE-Container{}, ProtocolIE-Single-Container{}, RNSAP-PRIVATE-IES, RNSAP-PROTOCOL-EXTENSION, RNSAP-PROTOCOL-IES, RNSAP-PROTOCOL-IES-PAIR FROM RNSAP-Containers maxNoOfDSCHs, maxNoOfUSCHs, maxNrOfCCTrCHs, maxNrOfDCHs, maxNrOfTS, maxNrOfDPCHs, maxNrOfRLs, maxNrOfRLSets, maxNrOfRLs-1, maxNrOfRLs-2, maxNrOfULTs, maxNrOfDLTs, maxNoOfDSCHsLCR, maxNoOfUSCHsLCR, maxNrOfCCTrCHsLCR, maxNrOfTsLCR, maxNrOfDLTsLCR, maxNrOfULTsLCR, maxNrOfDPCHsLCR,

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maxNrOfLCRTDDNeighboursPerRNC, maxNrOfMeasNCell,

id-Active-Pattern-Sequence-Information, id-AdjustmentRatio, id-AllowedOueuingTime, id-BindingID, id-C-ID, id-C-RNTI, id-CFN, id-CFNReportingIndicator, id-CN-CS-DomainIdentifier, id-CN-PS-DomainIdentifier, id-Cause. id-CauseLevel-RL-AdditionFailureFDD, id-CauseLevel-RL-AdditionFailureTDD. id-CauseLevel-RL-ReconfFailure, id-CauseLevel-RL-SetupFailureFDD, id-CauseLevel-RL-SetupFailureTDD, id-CCTrCH-InformationItem-RL-FailureInd, id-CCTrCH-InformationItem-RL-RestoreInd, id-ClosedLoopModel-SupportIndicator, id-ClosedLoopMode2-SupportIndicator, id-CNOriginatedPage-PagingRgst, id-CommonMeasurementAccuracy, id-CommonMeasurementObjectType-CM-Rprt, id-CommonMeasurementObjectType-CM-Rgst, id-CommonMeasurementObjectType-CM-Rsp, id-CommonMeasurementType, id-CongestionCause, id-CriticalityDiagnostics, id-D-RNTI, id-D-RNTI-ReleaseIndication, id-DCHs-to-Add-FDD, id-DCHs-to-Add-TDD. id-DCH-DeleteList-RL-ReconfPrepFDD, id-DCH-DeleteList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfRqstFDD, id-DCH-DeleteList-RL-ReconfRgstTDD, id-DCH-FDD-Information, id-DCH-TDD-Information, id-FDD-DCHs-to-Modify, id-TDD-DCHs-to-Modify, id-DCH-InformationResponse, id-DCH-Rate-InformationItem-RL-CongestInd, 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,

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id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD, id-DL-CCTrCH-InformationListIE-PhyChReconfRgstTDD, 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-ReconfRgstTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationList-RL-SetupRgstTDD, id-FDD-DL-CodeInformation, id-DL-DPCH-Information-RL-ReconfPrepFDD, id-DL-DPCH-Information-RL-SetupRgstFDD, id-DL-DPCH-Information-RL-ReconfRqstFDD, id-DL-DPCH-InformationItem-PhyChReconfRgstTDD, id-DL-DPCH-InformationItem-RL-AdditionRspTDD, id-DL-DPCH-InformationItem-RL-SetupRspTDD, id-DL-DPCH-InformationAddListIE-RL-ReconfReadvTDD, id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadvTDD, id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD, id-DL-Physical-Channel-Information-RL-SetupRqstTDD, id-DLReferencePower, id-DLReferencePowerList-DL-PC-Rqst, id-DL-ReferencePowerInformation-DL-PC-Rost. id-DRXCycleLengthCoefficient, id-DedicatedMeasurementObjectType-DM-Rprt, id-DedicatedMeasurementObjectType-DM-Rgst, id-DedicatedMeasurementObjectType-DM-Rsp, id-DedicatedMeasurementType, id-DPC-Mode, id-DPC-Mode-Change-SupportIndicator, id-DSCHs-to-Add-FDD, id-DSCHs-to-Add-TDD, id-DSCH-DeleteList-RL-ReconfPrepTDD, id-DSCH-Delete-RL-ReconfPrepFDD, id-DSCH-FDD-Information, id-DSCH-InformationListIE-RL-AdditionRspTDD, id-DSCH-InformationListIEs-RL-SetupRspTDD, id-DSCH-TDD-Information, id-DSCH-FDD-InformationResponse, id-DSCH-ModifyList-RL-ReconfPrepTDD, id-DSCH-Modify-RL-ReconfPrepFDD, id-DSCHsToBeAddedOrModified-FDD, id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD, id-EnhancedDSCHPC, id-EnhancedDSCHPCIndicator, id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD, id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD, id-GA-Cell, id-GA-CellAdditionalShapes, id-IMSI,

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id-InformationExchangeID, id-InformationExchangeObjectType-InfEx-Rprt, id-InformationExchangeObjectType-InfEx-Rost. id-InformationExchangeObjectType-InfEx-Rsp, id-InformationReportCharacteristics, id-InformationType, id-InnerLoopDLPCStatus, id-L3-Information, id-AdjustmentPeriod, id-MaxAdjustmentStep, id-MeasurementFilterCoefficient, id-MeasurementID. id-PagingArea-PagingRgst, id-Permanent-NAS-UE-Identity, id-FACH-FlowControlInformation, id-PowerAdjustmentType, id-PropagationDelay, id-RANAP-RelocationInformation, id-RL-Information-PhyChReconfRgstFDD, 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-RL-CongestInd, id-RL-InformationItem-DM-Rprt, id-RL-InformationItem-DM-Rgst, id-RL-InformationItem-DM-Rsp, id-RL-InformationItem-RL-PreemptRequiredInd, id-RL-InformationItem-RL-SetupRqstFDD, id-RL-InformationList-RL-CongestInd, id-RL-InformationList-RL-AdditionRqstFDD, id-RL-InformationList-RL-DeletionRqst, id-RL-InformationList-RL-PreemptRequiredInd, id-RL-InformationList-RL-ReconfPrepFDD, id-RL-InformationResponse-RL-AdditionRspTDD, id-RL-InformationResponse-RL-ReconfReadyTDD, id-RL-InformationResponse-RL-ReconfRspTDD, id-RL-InformationResponse-RL-SetupRspTDD, id-RL-InformationResponseItem-RL-AdditionRspFDD, id-RL-InformationResponseItem-RL-ReconfReadvFDD, id-RL-InformationResponseItem-RL-ReconfRspFDD, id-RL-InformationResponseItem-RL-SetupRspFDD, id-RL-InformationResponseList-RL-AdditionRspFDD, id-RL-InformationResponseList-RL-ReconfReadyFDD, id-RL-InformationResponseList-RL-ReconfRspFDD, id-RL-InformationResponseList-RL-SetupRspFDD,

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id-RL-ReconfigurationFailure-RL-ReconfFail, id-RL-Set-InformationItem-DM-Rprt. id-RL-Set-InformationItem-DM-Rgst. id-RL-Set-InformationItem-DM-Rsp, id-RL-Set-Information-RL-FailureInd, id-RL-Set-Information-RL-RestoreInd, id-ReportCharacteristics, id-Reporting-Object-RL-FailureInd, id-Reporting-Object-RL-RestoreInd, id-RxTimingDeviationForTA, id-S-RNTI, id-SAI, id-SFN. id-SFNReportingIndicator, id-SRNC-ID. id-SSDT-CellIDforEDSCHPC. id-STTD-SupportIndicator, id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD, id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-timeSlot-ISCP, 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-ReconfRgstTDD, 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-SetupRgstTDD, id-UL-CCTrCH-InformationList-RL-SetupRqstTDD, id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD, id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD, id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD, id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-Information-RL-ReconfPrepFDD, id-UL-DPCH-Information-RL-ReconfRqstFDD, id-UL-DPCH-Information-RL-SetupRqstFDD, id-UL-DPCH-InformationItem-PhyChReconfRgstTDD, 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,

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id-UL-SIRTarget, id-URA-Information. id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD. id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD, id-USCHs-to-Add, id-USCH-DeleteList-RL-ReconfPrepTDD, id-USCH-InformationListIE-RL-AdditionRspTDD, id-USCH-InformationListIEs-RL-SetupRspTDD, id-USCH-Information, id-USCH-ModifyList-RL-ReconfPrepTDD, id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRqstTDD, id-RL-LCR-InformationResponse-RL-SetupRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD, id-USCH-LCR-InformationListIEs-RL-SetupRspTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRqstTDD, id-RL-LCR-InformationResponse-RL-AdditionRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD, id-DL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD, id-timeSlot-ISCP-LCR-List-DL-PC-Rgst-TDD, id-TSTD-Support-Indicator-RL-SetupRqstTDD

FROM RNSAP-Constants;

<Not affected part is omitted>

************************************	* * * * * * * * * * * * * * * * * * * *	* * *					
RADIO LINK RECONFIGURATION PREPA	ARE FDD						

RadioLinkReconfigurationPrepareFDD	::= SEQUENCE {						
protocolIEs	ProtocolIE-Container	{{RadioLinkReconfigurationPrepareFDD-IEs}},					

```
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    protocolExtensions
                                    ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareFDD-Extensions}}
                                                                                                                                   OPTIONAL,
RadioLinkReconfigurationPrepareFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-AllowedOueuingTime
                                       CRITICALITY reject TYPE AllowedOueuingTime
                                                                                                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-FDD-DCHs-to-Modify
                                    CRITICALITY reject TYPE FDD-DCHs-to-Modify
                                                                                    PRESENCE optional
     ID id-DCHs-to-Add-FDD
                                CRITICALITY reject TYPE DCH-FDD-Information
                                                                                    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-DSCHs-to-Add-FDD
                                        CRITICALITY reject TYPE DSCH-FDD-Information
                                                                                                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-DPCHs
                                                            OPTIONAL
    -- This IE shall be present if minUL-ChannelisationCodeLength equals to 4 --,
    ul-PunctureLimit
                                    PunctureLimit
                                                            OPTIONAL,
    + FCS
                                    TFCS
                                            OPTIONAL,
    ul-DPCCH-SlotFormat
                                    UL-DPCCH-SlotFormat
                                                            OPTIONAL,
                                                            OPTIONAL,
    diversityMode
                                    DiversityMode
    sSDT-CellIDLength
                                    SSDT-CellID-Length
                                                            OPTIONAL,
    s-FieldLength
                                                            OPTIONAL,
                                    S-FieldLength
    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 {
    + FCS
                                    TFCS
                                            OPTIONAL,
    dl-DPCH-SlotFormat
                                    DL-DPCH-SlotFormat
                                                            OPTIONAL,
    nrOfDLchannelisationcodes
                                    NrOfDLchannelisationcodes
                                                                OPTIONAL,
    tFCI-SignallingMode
                                    TFCI-SignallingMode
                                                            OPTIONAL,
    tFCI-Presence
                                    TFCI-Presence
                                                            OPTIONAL
    -- This IE shall be present if DL DPCH Slot Format IE is from 12 to 16 --,
    multiplexingPosition
                                    MultiplexingPosition
                                                                OPTIONAL,
    limitedPowerIncrease
                                    LimitedPowerIncrease
                                                                OPTIONAL,
```

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ProtocolExtensionContainer { {DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL, iE-Extensions DL-DPCH-Information-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-ModifyInfo-RL-ReconfPrepFDD dSCH-Information OPTIONAL, pdSCH-RL-ID RL-ID OPTIONAL, tFCS TFCS OPTIONAL. ProtocolExtensionContainer { {DSCH-Modify-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL, iE-Extensions . . . 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, transportBearerRequestIndicator TransportBearerRequestIndicator, ProtocolExtensionContainer { {DSCH-ModifyInformationItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL, iE-Extensions . . . DSCH-ModifyInformationItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-EnhancedDSCHPCIndicator CRITICALITY ignore EXTENSION EnhancedDSCHPCIndicator PRESENCE optional { ID id-EnhancedDSCHPC CRITICALITY ignore EXTENSION EnhancedDSCHPC PRESENCE conditional } | --- The IE shall be present if the Enhanced DSCH PC Indicator IE is set to "Enhanced DSCH PC Active in the UE".

```
{ ID id-TrafficClass
                                    CRITICALITY ignore EXTENSION TrafficClass
                                                                                            PRESENCE optional
DSCH-Delete-RL-ReconfPrepFDD ::= SEOUENCE {
    dSCH-Information
                                        DSCH-Info-Delete-RL-ReconfPrepFDD,
                                        ProtocolExtensionContainer { {DSCH-Delete-RL-ReconfPrepFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
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 ::= SEOUENCE {
    dSCH-ID
                                        DSCH-ID,
    iE-Extensions
                                    ProtocolExtensionContainer { {DSCH-DeleteInformationItem-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    . . .
DSCH-DeleteInformationItem-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
                                            ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF Protocolle-Single-Container { {RL-Information-RL-ReconfPrepFDD-IEs}
RL-InformationList-RL-ReconfPrepFDD
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 shall be present if the sSDT-Indication is set to 'sSDT-active-in-the-UE' --,
    transmitDiversityIndicator
                                    TransmitDiversityIndicator
                                                                    OPTIONAL,
    -- This IE shall be present if Diversity Mode IE is present in UL DPCH Information IE and is not equal to "none"
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-Information-RL-ReconfPrepFDD-ExtIEs} } OPTIONAL,
    . . .
RL-Information-RL-ReconfPrepFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-SSDT-CellIDforEDSCHPC CRITICALITY ignore EXTENSION SSDT-CellID
                                                                                    PRESENCE conditional },
    -- This IE shall be present if Enhanced DSCH PC IE is present in either the DSCHs to Modify IE or the DSCHs to Add IE.
    . . .
RadioLinkReconfigurationPrepareFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
```

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. . . -- RADIO LINK RECONFIGURATION PREPARE TDD _ _ RadioLinkReconfigurationPrepareTDD ::= SEOUENCE { protocolIEs ProtocolIE-Container {{RadioLinkReconfigurationPrepareTDD-IEs}}, ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareTDD-Extensions}} protocolExtensions OPTIONAL, . . . RadioLinkReconfigurationPrepareTDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-AllowedOueuingTime CRITICALITY reject TYPE AllowedOueuingTime 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-TDD-DCHs-to-Modify CRITICALITY reject TYPE TDD-DCHs-to-Modify PRESENCE optional ID id-DCHs-to-Add-TDD CRITICALITY reject TYPE DCH-TDD-Information PRESENCE optional ID id-DCH-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepTDD PRESENCE optional } | ID id-DSCH-ModifyList-RL-ReconfPrepTDD CRITICALITY reject TYPE DSCH-ModifyList-RL-ReconfPrepTDD PRESENCE optional } ID id-DSCHs-to-Add-TDD CRITICALITY reject TYPE DSCH-TDD-Information } | 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-USCHs-to-Add CRITICALITY reject TYPE USCH-Information PRESENCE optional ID id-USCH-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-DeleteList-RL-ReconfPrepTDD PRESENCE optional }. . . . ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { {UL-CCTrCH-AddInformation-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD RL-ReconfPrepTDD-IEs } } UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IES RNSAP-PROTOCOL-IES ::= { { ID id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-AddInformation-RL-ReconfPrepTDD PRESENCE mandatory } UL-CCTrCH-AddInformation-RL-ReconfPrepTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID, tFCS TFCS,

```
tFCI-Coding
                                TFCI-Coding,
    punctureLimit
                                    PunctureLimit.
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    . . .
UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-SIRTarget
                                CRITICALITY reject
                                                        EXTENSION
                                                                         UL-SIR
                                                                                     PRESENCE optional },
    -- This IE shall be mandatory for 1.28Mcps TDD, not applicable for 3.84Mcps TDD.
    . . .
}
UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
                                                        ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { { 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 }
ļ
UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    tFCS
                                TECS
                                            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 ::= {
    { ID id-UL-SIRTarget
                                CRITICALITY reject
                                                        EXTENSION
                                                                         UL-SIR
                                                                                     PRESENCE optional },
    -- This IE shall be applicable for 1.28Mcps TDD only.
    . . .
}
UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
                                                        ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { {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,
                                    ProtocolExtensionContainer { {UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { {DL-CCTrCH-AddInformation-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD RL-ReconfPrepTDD-IEs } } DL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD CRITICALITY notify TYPE DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD PRESENCE mandatory } DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID, tFCS TFCS, tFCI-Coding TFCI-Coding, punctureLimit PunctureLimit, cCTrCH-TPCList CCTrCH-TPCAddList-RL-ReconfPrepTDD OPTIONAL, iE-Extensions ProtocolExtensionContainer { {DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL. . . . DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . CCTrCH-TPCAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCAddItem-RL-ReconfPrepTDD CCTrCH-TPCAddItem-RL-ReconfPrepTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID, iE-Extensions ProtocolExtensionContainer { { CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL, . . . CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { {DL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs } } DL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD CRITICALITY notify TYPE DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD PRESENCE mandatory } } DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID, tFCS TFCS OPTIONAL, tFCI-Coding TFCI-Coding OPTIONAL, PunctureLimit punctureLimit OPTIONAL, cCTrCH-TPCList CCTrCH-TPCModifyList-RL-ReconfPrepTDD OPTIONAL, ProtocolExtensionContainer { {DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL, iE-Extensions

```
}
DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
l
CCTrCH-TPCModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCModifyItem-RL-ReconfPrepTDD
CCTrCH-TPCModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                    CCTrCH-ID,
                                    ProtocolExtensionContainer { { CCTrCH-TPCModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
CCTrCH-TPCModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
                                                      ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { {DL-CCTrCH-
DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
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 }
ļ
DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
                                    ProtocolExtensionContainer { {DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-DeleteList-RL-ReconfPrepTDD
                                           ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepTDD
DCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID
                                DCH-ID,
    iE-Extensions
                                ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    . . .
}
DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DSCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-ModifyItem-RL-ReconfPrepTDD
```

```
DSCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID
                                         DSCH-ID,
    dl-ccTrCHID
                                         CCTrCH-ID
                                                                         OPTIONAL.
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr OPTIONAL,
    transportFormatSet
                                         TransportFormatSet
                                                                         OPTIONAL,
    allocationRetentionPriority
                                        AllocationRetentionPriority
                                                                         OPTIONAL,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator
                                                                         OPTIONAL,
    bLER
                                         BLER
                                                                         OPTIONAL,
    transportBearerRequestIndicator
                                        TransportBearerRequestIndicator,
                                     ProtocolExtensionContainer { {DSCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DSCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TrafficClass
                                    CRITICALITY ignore EXTENSION TrafficClass
                                                                                              PRESENCE optional
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,
    ul-ccTrCHID
                                        CCTrCH-ID
                                                                         OPTIONAL,
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr OPTIONAL,
    transportFormatSet
                                        TransportFormatSet
                                                                         OPTIONAL,
    allocationRetentionPriority
                                        AllocationRetentionPriority
                                                                         OPTIONAL,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator
                                                                         OPTIONAL,
    bLER
                                         BLER
                                                                         OPTIONAL,
    transportBearerRequestIndicator
                                        TransportBearerRequestIndicator,
    rb-Info
                                        RB-Info
                                                                         OPTIONAL,
    iE-Extensions
                                         ProtocolExtensionContainer { {USCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    . . .
USCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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

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```
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 ::= {
    ...
}

Not affected part is omitted>
9.3.4 Information Element Definitions
```

___ ___ -- Information Element Definitions _ _ RNSAP-IEs { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-IEs (2) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN IMPORTS maxCodeNumComp-1, maxNrOfFACHs, maxFACHCountPlus1, maxIBSEG, maxNoOfDSCHs, maxNoOfUSCHs, maxNoTFCIGroups, maxNoCodeGroups, maxNrOfDCHs, maxNrOfDL-Codes, maxNrOfDLTs, maxNrOfDLTsLCR, maxNrOfDPCHs, maxNrOfDPCHsLCR, maxNrOfErrors, maxNrOfFDDNeighboursPerRNC,

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maxNrOfMACcshSDU-Length, maxNrOfNeighbouringRNCs, maxNrOfTDDNeighboursPerRNC, maxNrOfLCRTDDNeighboursPerRNC, maxNrOfTS, maxNrOfULTs, maxNrOfULTsLCR, maxNrOfGSMNeighboursPerRNC, maxRateMatching, maxNrOfPoints, maxNoOfRB, maxNrOfTFCs, maxNrOfTFs, maxCTFC, maxRNCinURA-1, maxNrOfSCCPCHs, maxTFCI1Combs, maxTFCI2Combs, maxTFCI2Combs-1, maxTGPS, maxTTI-Count, maxNoGPSTypes, maxNoSat, id-Allowed-Rate-Information, id-DPC-Mode-Change-SupportIndicator, id-Guaranteed-Rate-Information, id-Load-Value, id-Load-Value-IncrDecrThres, id-Neighbouring-GSM-CellInformation, id-Neighbouring-UMTS-CellInformationItem, id-neighbouring-LCR-TDD-CellInformation, id-OnModification, id-Received-Total-Wideband-Power-Value, id-Received-Total-Wideband-Power-Value-IncrDecrThres, id-SFNSFNMeasurementThresholdInformation, id-TrafficClass, id-Transmitted-Carrier-Power-Value, id-Transmitted-Carrier-Power-Value-IncrDecrThres, id-TUTRANGPSMeasurementThresholdInformation, id-UL-Timeslot-ISCP-Value, id-UL-Timeslot-ISCP-Value-IncrDecrThres, maxNrOfLevels, maxNrOfMeasNCell, maxNrOfMeasNCell-1, id-MessageStructure, id-EnhancedDSCHPC, id-RestrictionStateIndicator, id-Rx-Timing-Deviation-Value-LCR, id-TypeOfError FROM RNSAP-Constants

```
Criticality,
    ProcedureID.
    ProtocolIE-ID,
    TransactionID,
    TriggeringMessage
FROM RNSAP-CommonDataTypes
    ProtocolIE-Single-Container{},
    ProtocolExtensionContainer{},
    RNSAP-PROTOCOL-IES,
    RNSAP-PROTOCOL-EXTENSION
FROM RNSAP-Containers;
-- A
Active-Pattern-Sequence-Information ::= SEQUENCE {
    cMConfigurationChangeCFN
                                    CFN,
    transmission-Gap-Pattern-Sequence-Status
                                                 Transmission-Gap-Pattern-Sequence-Status-List
                                                                                                    OPTIONAL,
                        ProtocolExtensionContainer { {Active-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
Active-Pattern-Sequence-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
AdjustmentPeriod
                            ::= INTEGER(1..256)
-- Unit Frame
AllocationRetentionPriority ::= SEQUENCE {
    priorityLevel
                                PriorityLevel,
    pre-emptionCapability
                                Pre-emptionCapability,
    pre-emptionVulnerability
                                Pre-emptionVulnerability,
        iE-Extensions
                                ProtocolExtensionContainer { {AllocationRetentionPriority-ExtIEs} } OPTIONAL,
        . . .
}
AllocationRetentionPriority-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Allowed-Rate-Information ::= SEQUENCE {
    allowed-UL-Rate
                            Allowed-Rate OPTIONAL,
    allowed-DL-Rate
                            Allowed-Rate OPTIONAL
                            ProtocolExtensionContainer { {Allowed-Rate-Information-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
Allowed-Rate-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
Allowed-Rate
                      ::= INTEGER (1..maxNrOfTFs)
AllowedQueuingTime
                       ::= INTEGER (1..60)
-- seconds
AlphaValue
                          ::= INTEGER (0..8)
-- Actual value = Alpha / 8
-- B
BadSatellites ::= SEQUENCE {
    badSatelliteInformation
                                SEQUENCE (SIZE (1..maxNoSat)) OF
        SEQUENCE {
           badSAT-ID
                                        SAT-ID,
                                        ProtocolExtensionContainer { { BadSatelliteInformation-ExtIEs} }
           iE-Extensions
                                                                                                                 OPTIONAL,
           . . .
       },
                                ProtocolExtensionContainer { { BadSatellites-ExtIEs } }
    iE-Extensions
                                                                                            OPTIONAL,
    . . .
}
BadSatelliteInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
BadSatellites-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Band-Indicator ::= ENUMERATED {
    dcs1800Band,
    pcs1900Band,
    . . .
}
BCC ::= BIT STRING (SIZE (3))
BCCH-ARFCN ::= INTEGER (0..1023)
BetaCD ::= INTEGER (0..15)
BindingID
                       ::= OCTET STRING (SIZE (1..4,...))
BLER
                       ::= INTEGER (-63..0)
-- Step 0.1 (Range -6.3..0). It is the Log10 of the BLER
SCTD-Indicator ::= ENUMERATED {
    active,
    inactive
```

```
BSIC ::= SEOUENCE {
    nCC
                NCC,
    bCC
                BCC
l
BurstModeParameters ::= SEQUENCE {
    burstStart
                    INTEGER (0..15),
    burstLength
                    INTEGER (10..25),
                    INTEGER (1..16),
    burstFreq
                                 ProtocolExtensionContainer { { BurstModeParameters-ExtIEs } }
    iE-Extensions
                                                                                                     OPTIONAL,
    . . .
BurstModeParameters-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
-- 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 {
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified.
    abstract-syntax-error-falsely-constructed-message,
    . . .
}
CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID,
```

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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, combining-not-supported, reconfiguration-not-allowed, requested-configuration-not-supported, synchronisation-failure, requested-tx-diversity-mode-not-supported, measurement-temporaily-not-available, unspecified, invalid-CM-settings, reconfiguration-CFN-not-elapsed, number-of-DL-codes-not-supported, dedicated-transport-channel-type-not-supported, dl-shared-channel-type-not-supported, ul-shared-channel-type-not-supported, common-transport-channel-type-not-supported, ul-spreading-factor-not-supported, dl-spreading-factor-not-supported, cm-not-supported, transaction-not-supported-by-destination-node-b, rl-already-activated-or-alocated, . . . , number-of-UL-codes-not-supported, dpc-mode-change-not-supported, information-temporarily-not-available, information-provision-not-supported-for-the-object, cell-reserved-for-operator-use } CauseTransport ::= ENUMERATED { transport-resource-unavailable, unspecified, . . . C-ID ::= INTEGER (0..65535) CCTrCH-ID ::= INTEGER (0..15) CellIndividualOffset ::= INTEGER (-20..20) CellParameterID ::= INTEGER (0..127,...) CFN ::= INTEGER (0..255) CGI ::= SEQUENCE {

```
lai
                SEQUENCE {
        pLMN-Identity PLMN-Identity,
        1AC
                        LAC,
                                ProtocolExtensionContainer { {LAI-ExtIEs} } OPTIONAL,
        iE-Extensions
        . . .
    },
                    CI,
    сI
                            ProtocolExtensionContainer { {CGI-ExtIEs} } OPTIONAL
    iE-Extensions
}
LAI-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CGI-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
ChannelCodingType ::= ENUMERATED {
    no-coding,
    convolutional-coding,
    turbo-coding,
    . . .
}
ChipOffset
                       ::= INTEGER (0..38399)
CI
                    ::= OCTET STRING (SIZE (2))
ClosedLoopModel-SupportIndicator
                                    ::= ENUMERATED {
    closedLoop-Model-Supported,
    closedLoop-Model-not-Supported
}
ClosedLoopMode2-SupportIndicator
                                    ::= ENUMERATED {
    closedLoop-Mode2-Supported,
    closedLoop-Mode2-not-Supported
}
Closedlooptimingadjustmentmode ::= ENUMERATED {
    adj-1-slot,
    adj-2-slot,
    . . .
}
CodeNumber ::= INTEGER (0..maxCodeNumComp-1)
CodingRate ::= ENUMERATED {
    half,
    third,
    . . .
```

```
CommonMeasurementAccuracy ::= CHOICE
    tUTRANGPSMeasurementAccuracyClass
                                             TUTRANGPSAccuracyClass,
    . . .
l
CommonMeasurementType ::= ENUMERATED {
    uTRAN-GPS-timing-of-cell-frames-for-LCS,
    sFN-SFN-observerd-time-difference,
    load,
    transmitted-carrier-power,
    received-total-wide-band-power,
    uplink-timeslot-iscp,
    . . .
CommonMeasurementValue ::= CHOICE {
    tUTRANGPSMeasurementValueInformation
                                             TUTRANGPSMeasurementValueInformation,
    sFNSFNMeasurementValueInformation
                                             SFNSFNMeasurementValueInformation,
    loadValue
                                         LoadValue,
    transmittedCarrierPowerValue
                                         INTEGER(0..100),
    receivedTotalWideBandPowerValue
                                         INTEGER(0..621),
    uplinkTimeslotISCPValue
                                         UL-TimeslotISCP,
    . . .
CommonMeasurementValueInformation ::= CHOICE {
                                 CommonMeasurementAvailable,
    measurementAvailable
    measurementnotAvailable
                                NULL
}
CommonMeasurementAvailable::= SEQUENCE {
    commonMeasurementValue
                                CommonMeasurementValue,
                                     ProtocolExtensionContainer { { CommonMeasurementAvailableItem-ExtIEs } }
    iE-Extensions
                                                                                                                            OPTIONAL,
    . . .
}
CommonMeasurementAvailableItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CongestionCause ::= ENUMERATED {
    uTRAN-dynamic-resources,
    uTRAN-semistatic-resources,
    . . .
CRC-Size
                        ::= ENUMERATED {
    v0,
    v8,
```

```
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                                                               3GPP TS 25.423 v4.3.0 (2001-12)
    v12.
    v16.
    v24.
    . . .
CriticalityDiagnostics ::= SEQUENCE {
    procedureID
                                ProcedureID
                                                     OPTIONAL,
    triggeringMessage
                                TriggeringMessage
                                                         OPTIONAL,
    procedureCriticality
                                Criticality
                                                         OPTIONAL,
                                TransactionID
    transactionID
                                                         OPTIONAL,
    iEsCriticalityDiagnostics
                                    CriticalityDiagnostics-IE-List OPTIONAL,
                                ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
CriticalityDiagnostics-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
    SEQUENCE {
        iECriticality
                                Criticality,
        iE-ID
                                ProtocolIE-ID,
        repetitionNumber
                                RepetitionNumber0
                                                         OPTIONAL,
        iE-Extensions
                                ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} } OPTIONAL,
        . . .
CriticalityDiagnostics-IE-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ID id-MessageStructure
                                CRITICALITY ignore
                                                         EXTENSION MessageStructure
                                                                                          PRESENCE optional
    ID id-TypeOfError
                                CRITICALITY ignore
                                                         EXTENSION TypeOfError
                                                                                         PRESENCE mandatory
    . . .
MessageStructure ::= SEQUENCE (SIZE (1..maxNrOfLevels)) OF
    SEQUENCE {
        iE-ID
                                ProtocolIE-ID,
        repetitionNumber
                                RepetitionNumber1
                                                         OPTIONAL,
        iE-Extensions
                                ProtocolExtensionContainer { {MessageStructure-ExtIEs} } OPTIONAL,
        . . .
MessageStructure-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CN-CS-DomainIdentifier ::= SEQUENCE {
                        PLMN-Identity,
    pLMN-Identity
    lac
                        LAC,
```

} |

Ì.

```
iE-Extensions
                        ProtocolExtensionContainer { {CN-CS-DomainIdentifier-ExtIEs } } OPTIONAL
CN-CS-DomainIdentifier-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CN-PS-DomainIdentifier ::= SEOUENCE {
    pLMN-Identity
                        PLMN-Identity,
    lac
                        LAC,
    rAC
                        RAC,
                        ProtocolExtensionContainer { {CN-PS-DomainIdentifier-ExtIEs } } OPTIONAL
    iE-Extensions
ι
CN-PS-DomainIdentifier-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
CNDomainType
                ::= ENUMERATED {
    cs-domain,
    ps-domain,
    dont-care,
    . . .
-- See in [16]
C-RNTI
                        ::= INTEGER (0..65535)
-- D
DCH-FDD-Information
                        ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-FDD-InformationItem
DCH-FDD-InformationItem ::= SEQUENCE {
    payloadCRC-PresenceIndicator
                                         PayloadCRC-PresenceIndicator,
    ul-FP-Mode
                                         UL-FP-Mode,
    toAWS
                                         TOAWS,
    toAWE
                                         TOAWE,
    dCH-SpecificInformationList
                                         DCH-Specific-FDD-InformationList,
                                         ProtocolExtensionContainer { {DCH-FDD-InformationItem-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DCH-FDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DCH-Specific-FDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-FDD-Item
DCH-Specific-FDD-Item ::= SEQUENCE {
    dCH-ID
                                         DCH-ID,
                                         TrCH-SrcStatisticsDescr,
    trCH-SrcStatisticsDescr
    ul-transportFormatSet
                                         TransportFormatSet,
```

```
dl-transportFormatSet
                                        TransportFormatSet,
    ul-BLER
                                        BLER,
    dl-BLER
                                        BLER.
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    frameHandlingPriority
                                        FrameHandlingPriority,
    qE-Selector
                                        OE-Selector,
    dRACControl
                                        DRACControl,
                                        ProtocolExtensionContainer { {DCH-FDD-SpecificItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DCH-FDD-SpecificItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . . .
    { ID id-Guaranteed-Rate-Information
                                            CRITICALITY ignore EXTENSION Guaranteed-Rate-Information
                                                                                                                   PRESENCE optional
                                                                                                                                          }
       ID id-TrafficClass
                                CRITICALITY ignore EXTENSION TrafficClass PRESENCE mandatory}
DCH-ID
                        ::= INTEGER (0..255)
DCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem
DCH-InformationResponseItem ::= SEQUENCE {
    dCH-ID
                                DCH-ID,
    bindingID
                                BindingID
                                                         OPTIONAL,
    transportLayerAddress
                                TransportLayerAddress
                                                         OPTIONAL,
                                ProtocolExtensionContainer { {DCH-InformationResponseItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DCH-InformationResponseItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Allowed-Rate-Information
                                            CRITICALITY ignore EXTENSION Allowed-Rate-Information
                                                                                                                   PRESENCE optional
}
DCH-TDD-Information
                        ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-TDD-InformationItem
DCH-TDD-InformationItem ::= SEQUENCE {
    payloadCRC-PresenceIndicator
                                        PayloadCRC-PresenceIndicator,
    ul-FP-Mode
                                        UL-FP-Mode,
    toAWS
                                        TOAWS,
    toAWE
                                        TOAWE,
    dCH-SpecificInformationList
                                        DCH-Specific-TDD-InformationList,
                                        ProtocolExtensionContainer { {DCH-TDD-InformationItem-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DCH-TDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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

```
DCH-Specific-TDD-Item ::= SEQUENCE {
    dCH-ID
                                        DCH-ID,
    ul-cCTrCH-ID
                                        CCTrCH-ID, -- UL CCTrCH in which the DCH is mapped
    dl-cCTrCH-ID
                                        CCTrCH-ID, -- DL CCTrCH in which the DCH is mapped
    trCH-SrcStatisticsDescr
                                        TrCH-SrcStatisticsDescr,
    ul-transportFormatSet
                                        TransportFormatSet,
    dl-transportFormatSet
                                        TransportFormatSet,
    ul-BLER
                                        BLER,
    dl-BLER
                                        BLER,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    frameHandlingPriority
                                        FrameHandlingPriority,
    qE-Selector
                                        OE-Selector
                                                            OPTIONAL.
    -- This IE shall be present if DCH is part of set of Co-ordinated DCHs
    iE-Extensions
                                        ProtocolExtensionContainer { {DCH-Specific-TDD-Item-ExtIEs} } OPTIONAL,
    . . .
DCH-Specific-TDD-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Guaranteed-Rate-Information
                                            CRITICALITY ignore EXTENSION Guaranteed-Rate-Information
                                                                                                                 PRESENCE optional,
                                CRITICALITY ignore EXTENSION TrafficClass PRESENCE mandatory }
     { ID id-TrafficClass
DedicatedMeasurementType ::= ENUMERATED {
    sir,
    sir-error,
    transmitted-code-power,
    rSCP,
    rx-timing-deviation,
    round-trip-time,
    ...,
    rx-timing-deviation-LCR
DedicatedMeasurementValue ::= CHOICE {
    sIR-Value
                        SIR-Value,
    sIR-ErrorValue
                            SIR-Error-Value,
    transmittedCodePowerValue Transmitted-Code-Power-Value,
    rSCP
                        RSCP-Value, -- TDD only
    rxTimingDeviationValue Rx-Timing-Deviation-Value, -- 3.84Mcps TDD only
                        Round-Trip-Time-Value, -- FDD only
    roundTripTime
    . . . ,
    extension-DedicatedMeasurementValue
                                            Extension-DedicatedMeasurementValue
Extension-DedicatedMeasurementValue ::= ProtocolIE-Single-Container {{ Extension-DedicatedMeasurementValueIE }}
Extension-DedicatedMeasurementValueIE RNSAP-PROTOCOL-IES ::= {
```

```
{ ID id-Rx-Timing-Deviation-Value-LCR CRITICALITY reject TYPE Rx-Timing-Deviation-Value-LCR
                                                                                                            PRESENCE mandatory },
    . . .
}
DedicatedMeasurementValueInformation ::= CHOICE {
                                DedicatedMeasurementAvailable,
    measurementAvailable
                                DedicatedMeasurementnotAvailable
    measurementnotAvailable
}
DedicatedMeasurementAvailable::= SEOUENCE {
                                     DedicatedMeasurementValue,
    dedicatedmeasurementValue
    CFN
                                     CFN
                                                              OPTIONAL,
    ie-Extensions
                                     ProtocolExtensionContainer { { DedicatedMeasurementAvailableItem-ExtIEs } }
                                                                                                                           OPTIONAL,
    . . .
ļ
DedicatedMeasurementAvailableItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DedicatedMeasurementnotAvailable ::= NULL
                        ::= INTEGER (0..30)
DeltaSIR
-- Step 0.1 dB, Range 0..3 dB.
DGPSCorrections ::= SEQUENCE {
    qPSTOW
                                             GPSTOW,
    qPS-Status-Health
                                             GPS-Status-Health,
    satellite-DGPSCorrections-Information SEOUENCE (SIZE (1..maxNoSat)) OF
        SEQUENCE {
            sAT-ID
                                                 SAT-ID,
                                                 BIT STRING (SIZE (8)),
            iode-dgps
            UDRE
                                                 UDRE,
                                                 PRC,
            pRC
            range-Correction-Rate
                                                 Range-Correction-Rate,
                                                 ProtocolExtensionContainer { { Satellite-DGPSCorrections-Information-ExtIEs } }
            iE-Extensions
                                                                                                                                           OPTIONAL,
            . . .
        },
                                     ProtocolExtensionContainer { { DGPSCorrections-ExtIEs } }
    iE-Extensions
                                                                                                    OPTIONAL,
    . . .
Satellite-DGPSCorrections-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DGPSCorrections-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
}
DGPSThreshold ::= SEQUENCE {
    pRCDeviation
                        PRCDeviation,
   iE-Extensions
                        ProtocolExtensionContainer { { DGPSThreshold-ExtIEs } }
                                                                                     OPTIONAL,
    . . .
}
DGPSThreshold-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DiversityControlField
                               ::= ENUMERATED {
   may,
   must,
    must-not
}
                          ::= ENUMERATED {
DiversityMode
   none,
    sTTD,
    closedLoopModel,
    closedLoopMode2,
    . . .
ļ
DL-DPCH-SlotFormat
                         ::= INTEGER (0..16,...)
DL-Power
                        ::= INTEGER (-350..150)
-- Value = DL-Power / 10
-- Unit dB, Range -35dB .. +15dB, Step 0.1dB
D-RNTI
                       ::= INTEGER (0..1048575)
D-RNTI-ReleaseIndication ::= ENUMERATED {
   release-D-RNTI,
    not-release-D-RNTI
}
DL-ScramblingCode
                          ::= INTEGER (0..15)
DL-FrameType ::= ENUMERATED {
    typeA,
    typeB,
    . . .
}
DL-Timeslot-Information ::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF DL-Timeslot-InformationItem
DL-Timeslot-InformationItem ::= SEQUENCE {
```

```
timeSlot
                                     TimeSlot,
    midambleShiftAndBurstType
                                     MidambleShiftAndBurstType,
    tFCI-Presence
                                     TFCI-Presence.
    dL-Code-Information
                                     TDD-DL-Code-Information,
                                     ProtocolExtensionContainer { {DL-Timeslot-InformationItem-ExtIEs } } OPTIONAL.
    iE-Extensions
    . . .
DL-Timeslot-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1.. maxNrOfDLTsLCR)) OF DL-TimeslotLCR-InformationItem
DL-TimeslotLCR-InformationItem ::= SEQUENCE {
    timeSlotLCR
                                             TimeSlotLCR,
    midambleShiftLCR
                                             MidambleShiftLCR,
    tFCI-Presence
                                             TFCI-Presence,
    dL-Code-LCR-Information
                                         TDD-DL-Code-LCR-Information,
                                             ProtocolExtensionContainer { { DL-TimeslotLCR-InformationItem-ExtIEs} }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
ļ
DL-TimeslotLCR-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DL-TimeSlot-ISCP-Info ::= SEOUENCE (SIZE (1..maxNrOfDLTs)) OF DL-TimeSlot-ISCP-InfoItem
DL-TimeSlot-ISCP-InfoItem ::= SEQUENCE {
    timeSlot
                                TimeSlot,
                                DL-TimeslotISCP,
    dL-TimeslotISCP
    iE-Extensions
                                ProtocolExtensionContainer { { DL-TimeSlot-ISCP-InfoItem-ExtIEs } } OPTIONAL,
    . . .
DL-TimeSlot-ISCP-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-TimeSlot-ISCP-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDLTsLCR)) OF DL-TimeSlot-ISCP-LCR-InfoItem
DL-TimeSlot-ISCP-LCR-InfoItem ::= SEQUENCE {
    timeSlotLCR
                                    TimeSlotLCR,
    dL-TimeslotISCP
                                     DL-TimeslotISCP,
    iE-Extensions
                                     ProtocolExtensionContainer { { DL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs } }
                                                                                                                           OPTIONAL,
    . . .
 }
DL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
• • •
```

```
DL-TimeslotISCP
                        ::= INTEGER (0..91)
-- According to mapping in [24]
Downlink-Compressed-Mode-Method
                                     ::= ENUMERATED {
    puncturing,
    sFdiv2,
    higher-layer-scheduling,
    . . .
DPC-Mode ::= ENUMERATED {
       mode0,
       model,
        . . .
}
DPC-Mode-Change-SupportIndicator ::= ENUMERATED {
   dPC-ModeChangeSupported
DPCH-ID
                        ::= INTEGER (0..239)
DPCHConstantValue ::= INTEGER (-10..10)
-- Unit dB, Step 1dB
DRACControl
                ::= ENUMERATED {
    requested,
    not-requested
}
DRXCycleLengthCoefficient
                                         ::= INTEGER (3..9)
-- See in [16]
DSCH-FDD-Information::= SEQUENCE {
    dSCH-Specific-Information
                                         DSCH-Specific-FDD-Item,
    pdSCH-RL-ID
                                         RL-ID,
    tFCS
                                         TFCS,
                                         ProtocolExtensionContainer { {DSCH-FDD-Information-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DSCH-FDD-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-EnhancedDSCHPC
                                        CRITICALITY ignore EXTENSION EnhancedDSCHPC
                                                                                                           PRESENCE optional
                                                                                                                                  },
    . . .
}
DSCH-Specific-FDD-Item ::= SEQUENCE {
    dSCH-ID
                                         DSCH-ID,
    trChSourceStatisticsDescriptor
                                         TrCH-SrcStatisticsDescr,
```

```
transportFormatSet TransportFormatSet,
allocationRetentionPriority AllocationRetentionPriority,
schedulingPriorityIndicator SchedulingPriorityIndicator,
bLER BLER,
iE-Extensions ProtocolExtensionContainer { {DSCH-Specific-FDD-Item-ExtIEs} } OPTIONAL,
...
```

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

```
ID id-TrafficClass
                                CRITICALITY ignore EXTENSION TrafficClass
                                                                                 PRESENCE mandatory
DSCH-FDD-InformationResponse ::= SEQUENCE
    dsch-Specific-InformationResponse
                                        DSCH-Specific-FDD-InformationResponse,
    pdSCHCodeMapping
                                        PDSCHCodeMapping,
                                        ProtocolExtensionContainer { { DSCH-FDD-InformationResponse-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
ļ
DSCH-FDD-InformationResponse-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DSCH-Specific-FDD-InformationResponse ::= SEQUENCE (SIZE(1..maxNoOfDSCHs)) OF DSCH-Specific-FDD-Response-Item
DSCH-Specific-FDD-Response-Item ::= SEQUENCE {
    dsch-ID
                                    DSCH-ID,
    dSCH-FlowControlInformation
                                    DSCH-FlowControlInformation,
    bindingID
                                    BindingID
                                                             OPTIONAL,
                                    TransportLayerAddress OPTIONAL,
    transportLayerAddress
    iE-Extensions
                                    ProtocolExtensionContainer { {DSCH-Specific-FDD-Response-Item-ExtIEs } } OPTIONAL,
    . . .
DSCH-Specific-FDD-Response-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DSCH-FlowControlInformation ::= SEQUENCE (SIZE(1..16)) OF DSCH-FlowControlItem
DSCH-FlowControlItem ::= SEQUENCE {
                                        SchedulingPriorityIndicator,
    dSCH-SchedulingPriority
    mAC-c-sh-SDU-Lengths
                                        MAC-c-sh-SDU-LengthList,
                                        ProtocolExtensionContainer { {DSCH-FlowControlItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
DSCH-FlowControlItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```
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DSCH-ID ::= INTEGER (0..255)

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

```
DSCH-TDD-InformationItem ::= SEQUENCE {
    dSCH-ID
                                        DSCH-ID,
    dl-ccTrCHID
                                        CCTrCH-ID, -- DL CCTrCH in which the DSCH is mapped
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr,
    transportFormatSet
                                        TransportFormatSet,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    bLER
                                        BLER,
    iE-Extensions
                                        ProtocolExtensionContainer { {DSCH-TDD-InformationItem-ExtIEs} } OPTIONAL,
    . . .
DSCH-TDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
       ID id-TrafficClass
                                CRITICALITY ignore EXTENSION TrafficClass
                                                                                PRESENCE mandatory
-- E
EnhancedDSCHPC ::= SEQUENCE {
    enhancedDSCHPCWnd EnhancedDSCHPCWnd,
    enhancedDSCHPCCounter EnhancedDSCHPCCounter,
    enhancedDSCHPowerOffset EnhancedDSCHPowerOffset,
    . . .
EnhancedDSCHPCCounter ::= INTEGER (1..50)
```

EnhancedDSCHPCIndicator ::= ENUMERATED {
 enhancedDSCHPCActiveInTheUE,
 enhancedDSCHPCNotActiveInTheUE
}

```
EnhancedDSCHPCWnd ::= INTEGER (1..10)
```

```
EnhancedDSCHPowerOffset ::= INTEGER (-15..0)
EventA ::= SEQUENCE {
   measurementTreshold MeasurementThreshold,
   measurementHysteresisTime MeasurementHysteresisTime OPTIONAL,
   iE-Extensions ProtocolExtensionContainer { {EventA-ExtIEs} } OPTIONAL,
   ...
}
```

```
EventA-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
EventB ::= SEOUENCE {
                            MeasurementThreshold,
    measurementTreshold
    measurementHysteresisTime MeasurementHysteresisTime
                                                                OPTIONAL,
    iE-Extensions
                            ProtocolExtensionContainer { {EventB-ExtIEs} } OPTIONAL,
    . . .
}
EventB-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
EventC ::= SEOUENCE {
    measurementIncreaseDecreaseThreshold
                                            MeasurementIncreaseDecreaseThreshold,
    measurementChangeTime
                                MeasurementChangeTime,
   iE-Extensions
                           ProtocolExtensionContainer { {EventC-ExtIEs} } OPTIONAL,
    . . .
}
EventC-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
EventD ::= SEQUENCE {
    measurementIncreaseDecreaseThreshold MeasurementIncreaseDecreaseThreshold,
    measurementChangeTime
                                MeasurementChangeTime,
                            ProtocolExtensionContainer { {EventD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
EventD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
EventE ::= SEQUENCE {
    measurementThreshold1
                                MeasurementThreshold,
    measurementThreshold2
                                MeasurementThreshold
                                                                OPTIONAL,
    measurementHysteresisTime MeasurementHysteresisTime
                                                                OPTIONAL,
    reportPeriodicity
                            ReportPeriodicity
                                                        OPTIONAL,
                            ProtocolExtensionContainer { {EventE-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
EventE-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

```
EventF ::= SEQUENCE {
    measurement.Threshold1
                                MeasurementThreshold.
    measurementThreshold2
                                MeasurementThreshold
                                                                 OPTIONAL,
                                MeasurementHysteresisTime
    measurementHysteresisTime
                                                                 OPTIONAL,
    reportPeriodicity
                            ReportPeriodicity
                                                         OPTIONAL,
                            ProtocolExtensionContainer { {EventF-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
EventF-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
ļ
-- F
FACH-FlowControlInformation ::= SEOUENCE (SIZE (1..16)) OF FACH-FlowControlInformationItem
FACH-FlowControlInformationItem ::= SEQUENCE {
    fACH-SchedulingPriority
                                     SchedulingPriorityIndicator,
    mAC-c-sh-SDU-Lengths
                                    MAC-c-sh-SDU-LengthList,
    fACH-InitialWindowSize
                                    FACH-InitialWindowSize,
                                    ProtocolExtensionContainer { {FACH-FlowControlInformationItem-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
FACH-FlowControlInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
FACH-InitialWindowSize
                                ::= INTEGER { unlimited(255) } (0..255)
-- Number of frames MAC-c-sh SDUs.
-- 255 = Unlimited number of FACH data frames
FACH-InformationList ::= SEQUENCE (SIZE(0.. maxNrOfFACHs)) OF FACH-InformationItem
FACH-InformationItem ::= SEQUENCE {
                                     TransportFormatSet,
    transportFormatSet
                                    ProtocolExtensionContainer { { FACH-InformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
FACH-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
FACH-PCH-InformationList ::= SEQUENCE (SIZE(1..maxFACHCountPlus1)) OF FACH-PCH-InformationItem
FACH-PCH-InformationItem ::= SEQUENCE {
    transportFormatSet
                                    TransportFormatSet,
                                     ProtocolExtensionContainer { { FACH-PCH-InformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
```

```
. . .
}
FACH-PCH-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
l
FDD-DCHs-to-Modify
                                ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF FDD-DCHs-to-ModifyItem
FDD-DCHs-to-ModifyItem ::= SEQUENCE {
    ul-FP-Mode
                                        UL-FP-Mode
                                                         OPTIONAL,
    toAWS
                                        TOAWS
                                                     OPTIONAL,
    toAWE
                                                     OPTIONAL,
                                        TOAWE
    transportBearerRequestIndicator
                                        TransportBearerRequestIndicator,
    dCH-SpecificInformationList
                                        FDD-DCHs-to-ModifySpecificInformationList,
    iE-Extensions
                                        ProtocolExtensionContainer { {FDD-DCHs-to-ModifyItem-ExtIEs} } OPTIONAL,
    . . .
FDD-DCHs-to-ModifyItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
FDD-DCHs-to-ModifySpecificInformationList ::= SEOUENCE (SIZE (1..maxNrOfDCHs)) OF FDD-DCHs-to-ModifySpecificItem
FDD-DCHs-to-ModifySpecificItem ::= 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 { {FDD-DCHs-to-ModifySpecificItem-ExtIEs} } OPTIONAL,
    . . .
FDD-DCHs-to-ModifySpecificItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Guaranteed-Rate-Information
                                            CRITICALITY ignore EXTENSION Guaranteed-Rate-Information
                                                                                                                  PRESENCE optional,
       ID id-TrafficClass
                                CRITICALITY ignore EXTENSION TrafficClass
                                                                                 PRESENCE optional }
FDD-DL-ChannelisationCodeNumber
                                    ::= INTEGER (0..511)
-- According to the mapping in [27]. The maximum value is equal to the DL spreading factor -1--
FDD-DL-CodeInformation ::= SEQUENCE (SIZE (1..maxNrOfDL-Codes)) OF FDD-DL-CodeInformationItem
FDD-DL-CodeInformationItem ::= SEQUENCE {
    dl-ScramblingCode
                                                                 DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber
                                                                 FDD-DL-ChannelisationCodeNumber,
```

```
Transmission-Gap-Pattern-Sequence-ScramblingCode-Information OPTIONAL,
    transmission-Gap-Pattern-Sequence-ScramblingCode-Information
    iE-Extensions
                                            ProtocolExtensionContainer { {FDD-DL-CodeInformationItem-ExtIEs} } OPTIONAL,
    . . .
FDD-DL-CodeInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
FDD-S-CCPCH-Offset
                            ::= INTEGER (0..149)
FDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-size0-5,
    step-sizel,
    step-size1-5,
    step-size2,
    . . .
                                        ::= INTEGER { lowest(0), highest(15) } (0..15)
SchedulingPriorityIndicator
FirstRLS-Indicator ::= ENUMERATED {
    first-RLS,
    not-first-RLS
FNReportingIndicator ::= ENUMERATED {
    fN-reporting-required,
    fN-reporting-not-required
}
FrameHandlingPriority
                                ::= INTEGER { lowest(0), highest(15) } (0..15)
FrameOffset
                        ::= INTEGER (0..255)
-- Frames
-- G
                        ::= INTEGER (1..14)
GapLength
-- Unit Slot
GapDuration
                        ::= INTEGER (1..144,...)
-- Unit Frame
GA-Cell ::= SEQUENCE (SIZE (1..maxNrOfPoints)) OF
    SEQUENCE {
        cell-GAIgeographicalCoordinate
                                            GeographicalCoordinate,
        iE-Extensions
                                ProtocolExtensionContainer { {GA-Cell-ExtIEs} } OPTIONAL,
        . . .
```

. . .

GA-Cell-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```
GA-CellAdditionalShapes ::= CHOICE {
                                                     GA-PointWithUnCertainty,
    pointWithUncertainty
    pointWithUncertaintyEllipse
                                                     GA-PointWithUnCertaintyEllipse,
    pointWithAltitude
                                                     GA-PointWithAltitude,
    pointWithAltitudeAndUncertaintyEllipsoid
                                                     GA-PointWithAltitudeAndUncertaintyEllipsoid,
    ellipsoidArc
                                                     GA-EllipsoidArc,
    . . .
    }
GA-AltitudeAndDirection ::= SEQUENCE {
    directionOfAltitude
                            ENUMERATED {height, depth},
    altitude
                            INTEGER (0..32767),
    . . .
GA-EllipsoidArc ::= SEQUENCE {
    geographicalCoordinates
                                GeographicalCoordinate,
    innerRadius
                                INTEGER (0..65535),
    uncertaintyRadius
                                INTEGER (0..127),
    offsetAngle
                                INTEGER (0..179),
    includedAngle
                                INTEGER (0..179),
    confidence
                                INTEGER (0..127),
    iE-Extensions
                                ProtocolExtensionContainer { { GA-EllipsoidArc-ExtIEs } } OPTIONAL,
    . . .
GA-EllipsoidArc-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GA-PointWithAltitude ::= SEQUENCE {
    geographicalCoordinates
                                GeographicalCoordinate,
    altitudeAndDirection
                                GA-AltitudeAndDirection,
                                ProtocolExtensionContainer { { GA-PointWithAltitude-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
GA-PointWithAltitude-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GA-PointWithAltitudeAndUncertaintyEllipsoid ::= SEQUENCE {
    geographicalCoordinates
                                GeographicalCoordinate,
    altitudeAndDirection
                                GA-AltitudeAndDirection,
    uncertaintyEllipse
                                GA-UncertaintyEllipse,
    uncertaintyAltitude
                                INTEGER (0..127),
    confidence
                                INTEGER (0..127),
```

```
iE-Extensions
                                 ProtocolExtensionContainer { { GA-PointWithAltitudeAndUncertaintyEllipsoid-ExtIEs } } OPTIONAL,
    . . .
GA-PointWithAltitudeAndUncertaintyEllipsoid-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GA-PointWithUnCertaintyEllipse ::= SEQUENCE {
                                GeographicalCoordinate,
    geographicalCoordinates
    uncertaintyEllipse
                                GA-UncertaintyEllipse,
    confidence
                                INTEGER (0..127),
    iE-Extensions
                                ProtocolExtensionContainer { { GA-PointWithUnCertaintyEllipse-ExtIEs } } OPTIONAL,
    . . .
GA-PointWithUnCertaintyEllipse-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GA-UncertaintyEllipse ::= SEQUENCE {
    uncertaintySemi-major
                                 INTEGER (0..127),
    uncertaintySemi-minor
                                 INTEGER (0..127),
    orientationOfMajorAxis
                                INTEGER (0..179),
    . . .
GA-PointWithUnCertainty ::=SEOUENCE {
    geographicalCoordinates
                                 GeographicalCoordinate,
    iE-Extensions
                            ProtocolExtensionContainer { {GA-PointWithUnCertainty-ExtIEs} } OPTIONAL,
    uncertaintyCode
                            INTEGER (0..127)
}
GA-PointWithUnCertainty-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GA-AccessPointPosition ::= SEQUENCE {
    geographicalCoordinate
                                 GeographicalCoordinate,
                            ProtocolExtensionContainer { {GA-AccessPoint-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
GA-AccessPoint-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GeographicalCoordinate ::= SEQUENCE {
    latitudeSign
                            ENUMERATED { north, south },
    latitude
                        INTEGER (0..8388607),
                        INTEGER (-8388608..8388607),
    longitude
```

```
iE-Extensions
                            ProtocolExtensionContainer { {GeographicalCoordinate-ExtIEs} } OPTIONAL,
    . . .
}
GeographicalCoordinate-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GPS-Almanac ::= SEQUENCE {
                            BIT STRING (SIZE (8)),
    wn<sub>a</sub>-alm
    satellite-Almanac-Information
                                         SEQUENCE (SIZE (1..maxNoSat)) OF
        SEQUENCE {
            sAT-ID
                                SAT-ID,
            qps-e-alm
                                BIT STRING (SIZE (16)),
                                BIT STRING (SIZE (8)),
            qps-toa-alm
            qps-delta-I-alm
                                BIT STRING (SIZE (16)),
            omegadot-alm
                                BIT STRING (SIZE (16)),
            svhealth-alm
                                BIT STRING (SIZE (8)),
            gps-a-sgrt-alm
                                BIT STRING (SIZE (24)),
            omegazero-alm
                                BIT STRING (SIZE (24)),
            m-zero-alm
                                BIT STRING (SIZE (24)),
            gps-omega-alm
                                BIT STRING (SIZE (24)),
            gps-af-zero-alm
                                BIT STRING (SIZE (11)),
            qps-af-one-alm
                                BIT STRING (SIZE (11)),
            iE-Extensions
                                ProtocolExtensionContainer { { Satellite-Almanac-Information-ExtIEs } }
                                                                                                                    OPTIONAL,
            . . .
        },
                            ProtocolExtensionContainer { { GPS-Almanac-ExtIEs } }
    iE-Extensions
                                                                                          OPTIONAL,
    . . .
}
Satellite-Almanac-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPS-Almanac-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
GPSInformation ::= SEQUENCE (SIZE (1..maxNoGPSTypes)) OF
    SEQUENCE {
        gPSInformationItem
                                ENUMERATED {
            gPS-NavigationModel-and-TimeRecovery,
            gPS-Ionospheric-Model,
            aPS-UTC-Model,
            gPS-Almanac,
            gPS-RealTime-Integrity,
            . . .
        },
                                ProtocolExtensionContainer { { GPSInformation-ExtIEs } }
        iE-Extensions
                                                                                               OPTIONAL,
        . . .
```

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-- This IE shall be present if the Information Type IE indicates 'GPS Information'

```
GPSInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPS-Ionospheric-Model ::= SEOUENCE {
    alpha-zero-ionos
                            BIT STRING (SIZE (8)),
    alpha-one-ionos
                            BIT STRING (SIZE (8)),
    alpha-two-ionos
                           BIT STRING (SIZE (8)),
    alpha-three-ionos
                           BIT STRING (SIZE (8)),
    beta-zero-ionos
                           BIT STRING (SIZE (8)),
    beta-one-ionos
                            BIT STRING (SIZE (8)),
    beta-two-ionos
                            BIT STRING (SIZE (8)),
    beta-three-ionos
                           BIT STRING (SIZE (8)),
                            ProtocolExtensionContainer { { GPS-Ionospheric-Model-ExtIEs } }
    iE-Extensions
                                                                                                 OPTIONAL,
    . . .
GPS-Ionospheric-Model-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPS-NavigationModel-and-TimeRecovery ::= SEOUENCE (SIZE (1..maxNoSat)) OF
    SEQUENCE
        tx-tow-nav
                                        INTEGER (0..1048575),
        sAT-ID
                                        SAT-ID,
        tlm-message-nav
                                        BIT STRING (SIZE (14)),
        tlm-revd-c-nav
                                        BIT STRING (SIZE (2)),
       ho-word-nav
                                        BIT STRING (SIZE (22)),
        w-n-nav
                                        BIT STRING (SIZE (10)),
        ca-or-p-on-12-nav
                                        BIT STRING (SIZE (2)),
        user-range-accuracy-index-nav
                                       BIT STRING (SIZE (4)),
        sv-health-nav
                                        BIT STRING (SIZE (6)),
        iodc-nav
                                        BIT STRING (SIZE (10)),
       12-p-dataflag-nav
                                        BIT STRING (SIZE (1)),
        sfl-reserved-nav
                                        BIT STRING (SIZE (87)),
        t-qd-nav
                                        BIT STRING (SIZE (8)),
        t-oc-nav
                                        BIT STRING (SIZE (16)),
        a-f-2-nav
                                        BIT STRING (SIZE (8)),
        a-f-1-nav
                                        BIT STRING (SIZE (16)),
       a-f-zero-nav
                                        BIT STRING (SIZE (22)),
        c-rs-nav
                                        BIT STRING (SIZE (16)),
                                        BIT STRING (SIZE (16)),
        delta-n-nav
       m-zero-nav
                                        BIT STRING (SIZE (32)),
        c-uc-nav
                                        BIT STRING (SIZE (16)),
                                        BIT STRING (SIZE (32)),
        gps-e-nav
                                        BIT STRING (SIZE (16)),
        c-us-nav
        a-sgrt-nav
                                        BIT STRING (SIZE (32)),
        t-oe-nav
                                        BIT STRING (SIZE (16)),
```

```
fit-interval-flag-nav
                                         BIT STRING (SIZE (1)),
        aodo-nav
                                         BIT STRING (SIZE (5)),
        c-ic-nav
                                         BIT STRING (SIZE (16)),
        omega-zero-nav
                                        BIT STRING (SIZE (32)),
        c-is-nav
                                         BIT STRING (SIZE (16)),
        i-zero-nav
                                         BIT STRING (SIZE (32)),
        c-rc-nav
                                        BIT STRING (SIZE (16)),
        gps-omega-nav
                                         BIT STRING (SIZE (32)),
        omegadot-nav
                                         BIT STRING (SIZE (24)),
                                         BIT STRING (SIZE (14)),
        idot-nav
        spare-zero-fill
                                        BIT STRING (SIZE (20)),
        iE-Extensions
                                        ProtocolExtensionContainer { { GPS-NavigationModel-and-TimeRecoveryItem-ExtIEs } }
                                                                                                                                          OPTIONAL,
        . . .
GPS-NavigationModel-and-TimeRecoveryItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPS-RealTime-Integrity ::= CHOICE {
    badSatellites
                                 BadSatellites,
    noBadSatellite
                                NULL
}
GPS-RX-POS ::= SEQUENCE {
    geographicalCoordinate
                                 GeographicalCoordinate,
    altitudeAndDirection
                                GA-AltitudeAndDirection,
    iE-Extensions
                                 ProtocolExtensionContainer { { GPS-RX-POS-ExtIEs } } OPTIONAL,
    . . .
}
GPS-RX-POS-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
GPS-Status-Health ::= ENUMERATED {
  udre-1-0,
  udre-0-75,
   udre-0-5,
   udre-0-3,
  udre-0-1,
  no-data,
   invalid-data
}
GPSTOW ::= INTEGER (0..604799)
GPS-UTC-Model ::= SEQUENCE {
    a-one-utc
                            BIT STRING (SIZE (24)),
    a-zero-utc
                            BIT STRING (SIZE (32)),
    t-ot-utc
                            BIT STRING (SIZE (8)),
```

```
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    delta-t-ls-utc
                           BIT STRING (SIZE (8)),
    w-n-t-utc
                           BIT STRING (SIZE (8)),
    w-n-lsf-utc
                           BIT STRING (SIZE (8)),
    dn-ut.c
                           BIT STRING (SIZE (8)),
    delta-t-lsf-utc
                           BIT STRING (SIZE (8)),
                           ProtocolExtensionContainer { { GPS-UTC-Model-ExtIEs} }
    iE-Extensions
                                                                                         OPTIONAL,
    . . .
GPS-UTC-Model-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Guaranteed-Rate-Information ::= SEQUENCE {
    quaranteed-UL-Rate
                                Guaranteed-Rate OPTIONAL,
    quaranteed-DL-Rate
                                Guaranteed-Rate OPTIONAL,
                                ProtocolExtensionContainer { {Guaranteed-Rate-Information-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
Guaranteed-Rate-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Guaranteed-Rate
                       ::= INTEGER (1..maxNrOfTFs)
-- H
-- I
IB-SchedulingInformation ::= SEQUENCE
                                    IB-SG-REP,
    iB-SG-Rep
    iB-segmentInformationList
                                    IB-SegmentInformationList,
                                    ProtocolExtensionContainer { { IB-SchedulingInformation-ExtIEs } } OPTIONAL,
    iE-Extensions
        . . .
IB-SchedulingInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
IB-SegmentInformationList ::= SEQUENCE (SIZE(1..maxIBSEG)) OF IB-SegmentInformationItem
IB-SegmentInformationItem ::= SEQUENCE {
    iB-SG-POS
                                    IB-SG-POS,
                                    ProtocolExtensionContainer { { IB-SegmentInformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
IB-SegmentInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
IB-SG-POS ::= INTEGER (0..4094)
-- Only even positions allowed
IB-SG-REP
          := ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024, rep2048, rep4096}
IMSI
            ::= OCTET STRING (SIZE(3..8))
InformationAvailable::= SEQUENCE {
    requestedDataValue
                            RequestedDataValue,
                            ProtocolExtensionContainer { { InformationAvailable-ExtIEs} }
    iE-Extensions
                                                                                                 OPTIONAL,
    . . .
}
InformationAvailable-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
InformationExchangeID ::= INTEGER (0..1048575)
InformationNotAvailable ::= NULL
InformationReportCharacteristics ::= CHOICE {
    onDemand
                            NULL,
    periodic
                            PeriodicInformation,
                           OnModificationInformation,
    onModification
    . . .
}
InformationReportPeriodicity ::= CHOICE {
                   INTEGER (1..60,...),
    min
-- Unit min, Step 1min
                    INTEGER (1..24,...),
    hour
-- Unit hour, Step 1hour
    . . .
}
InformationThreshold ::= CHOICE {
    dGPSThreshold
                        DGPSThreshold,
    . . .
}
InformationType ::= SEQUENCE {
    informationTypeItem
                            ENUMERATED {
        gA-AccessPointPositionwithAltitude,
        gA-AccessPointPosition,
        iPDLParameters,
        gPSInformation,
        dGPSCorrections,
        gPS-RX-POS,
```

```
sFNSFN-GA-AccessPointPosition,
        . . .
    },
    qPSInformation
                                 GPSInformation
                                                         OPTIONAL,
                                 ProtocolExtensionContainer { { InformationType-ExtIEs } }
                                                                                                   OPTIONAL,
    iE-Extensions
    . . .
-- The GPS Information IE shall be present if the Information Exchange Type IE indicates 'GPS Information'
InformationType-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
InnerLoopDLPCStatus
                        ::= ENUMERATED {active, inactive}
IPDLParameters ::= CHOICE {
    iPDL-FDD-Parameters
                                 IPDL-FDD-Parameters,
    iPDL-TDD-Parameters
                                 IPDL-TDD-Parameters
}
IPDL-FDD-Parameters ::= SEQUENCE {
    iPSpacingFDD
                                 IPSpacingFDD,
    iPLength
                                 IPLength,
    iPOffset
                                 IPOffset,
                                 Seed.
    seed
    burstModeParameters
                                 BurstModeParameters
                                                         OPTIONAL,
    iE-Extensions
                                 ProtocolExtensionContainer { { IPDL-FDD-Parameters-ExtIEs } }
                                                                                                    OPTIONAL,
    . . .
}
IPDL-FDD-Parameters-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
IPDL-TDD-Parameters ::= SEQUENCE {
    iPSpacingTDD
                                 IPSpacingTDD,
    iPStart
                                 IPStart,
    iPSlot
                                 IPSlot,
    iP-P-CCPCH
                                 IP-P-CCPCH,
    burstModeParameters
                                 BurstModeParameters
                                                         OPTIONAL,
    iE-Extensions
                                 ProtocolExtensionContainer { { IPDL-TDD-Parameters-ExtIEs } }
                                                                                                     OPTIONAL,
    . . .
}
-- The BurstModeParameters IE shall be included if the Idle Periods are arranged in Burst Mode.
IPDL-TDD-Parameters-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
IPLength ::= ENUMERATED {
    ipl5,
    ipl10,
    . . .
}
IPOffset ::= INTEGER (0..9)
IP-P-CCPCH ::= ENUMERATED {
    switchOff-1-Frame,
    switchOff-2-Frames
}
IPSlot ::= INTEGER (0..14)
IPSpacingFDD ::= ENUMERATED {
    ipsF5,
    ipsF7,
    ipsF10,
    ipsF15,
    ipsF20,
    ipsF30,
    ipsF40,
    ipsF50,
    . . .
}
IPSpacingTDD ::= ENUMERATED {
    ipsT30,
    ipsT40,
    ipsT50,
    ipsT70,
    ipsT100,
    . . .
}
IPStart ::= INTEGER (0..4095)
-- J
-- K
-- L
                    ::= OCTET STRING (SIZE (2)) --(EXCEPT ('0000'H|'FFFF'H))
LAC
LimitedPowerIncrease ::= ENUMERATED {
    used,
    not-used
}
L3-Information
                            ::= BIT STRING
```

Load-Value-IncrDecrThres ::= INTEGER(0..9)

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Load-Value ::= INTEGER(0..9) LoadValue ::= SEQUENCE { uplinkLoadValue INTEGER(0..9), downlinkLoadValue INTEGER(0..9) } -- M MaxNrOfUL-DPCHs ::= INTEGER (1..6) MAC-c-sh-SDU-Length ::= INTEGER (1..5000) MAC-c-sh-SDU-LengthList ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length MaximumAllowedULTxPower ::= INTEGER (-50..33) MaxNrDLPhysicalchannels ::= INTEGER (1..224) MaxNrTimeslots ::= INTEGER (1..14) MaxNrULPhysicalchannels ::= INTEGER (1..2) MaxTFCIvalue ::= INTEGER (1..1023) MeasurementFilterCoefficient ::= ENUMERATED{k0, k1, k2, k3, k4, k5, k6, k7, k8, k9, k11, k13, k15, k17, k19,...} -- Measurement Filter Coefficient to be used for measurement MeasurementID ::= INTEGER (0..1048575) MinimumSpreadingFactor ::= INTEGER (1..16) Multi-code-info ::= INTEGER (1..16) MultipleURAsIndicator ::= ENUMERATED { multiple-URAs-exist, single-URA-exists } MaxAdjustmentStep ::= INTEGER(1..10) -- Unit Slot MeasurementChangeTime ::= INTEGER (1..6000,...) -- The MeasurementChangeTime gives the MeasurementChangeTime -- in number of 10 ms periods. -- E.g. Value 6000 means 60000ms(1min) -- Unit is ms, Step is 10 ms MeasurementHysteresisTime ::= INTEGER (1..6000,...)

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```
-- The MeasurementHysteresisTime gives the
-- MeasurementHysteresisTime in number of 10 ms periods.
-- E.g. Value 6000 means 60000ms(1min)
-- Unit is ms, Step is 10ms
                                            ::= CHOICE {
MeasurementIncreaseDecreaseThreshold
    sir
                                    SIR-Value-IncrDecrThres,
    sir-error
                                    SIR-Error-Value-IncrDecrThres,
    transmitted-code-power
                                    Transmitted-Code-Power-Value-IncrDecrThres,
                                    RSCP-Value-IncrDecrThres,
    rscp
    round-trip-time
                                    Round-Trip-Time-IncrDecrThres,
    . . . ,
    extension-MeasurementIncreaseDecreaseThreshold
                                                        Extension-MeasurementIncreaseDecreaseThreshold
Extension-MeasurementIncreaseDecreaseThreshold ::= ProtocolIE-Single-Container {{ Extension-MeasurementIncreaseDecreaseThresholdIE }}
Extension-MeasurementIncreaseDecreaseThresholdIE RNSAP-PROTOCOL-IES ::= {
     ID id-Load-Value-IncrDecrThres
                                       CRITICALITY reject TYPE Load-Value-IncrDecrThres PRESENCE mandatory }
     ID id-Transmitted-Carrier-Power-Value-IncrDecrThres CRITICALITY reject TYPE Transmitted-Carrier-Power-Value-IncrDecrThres
                                                                                                                                              PRESENCE
mandatory } |
    { ID id-Received-Total-Wideband-Power-Value-IncrDecrThres CRITICALITY reject TYPE Received-Total-Wideband-Power-Value-IncrDecrThres
    PRESENCE mandatory }
    { ID id-UL-Timeslot-ISCP-Value-IncrDecrThres CRITICALITY reject TYPE UL-Timeslot-ISCP-Value-IncrDecrThres
                                                                                                                        PRESENCE mandatory }
MeasurementThreshold
                                ::= CHOICE {
    sir
                                    SIR-Value.
    sir-error
                                    SIR-Error-Value,
    transmitted-code-power
                                    Transmitted-Code-Power-Value,
                                    RSCP-Value,
    rscp
    rx-timing-deviation
                                    Rx-Timing-Deviation-Value,
    round-trip-time
                                    Round-Trip-Time-Value,
    . . . ,
    extension-MeasurementThreshold Extension-MeasurementThreshold
Extension-MeasurementThreshold ::= ProtocolIE-Single-Container {{ Extension-MeasurementThresholdIE }}
Extension-MeasurementThresholdIE RNSAP-PROTOCOL-IES ::= {
    { ID id-TUTRANGPSMeasurementThresholdInformation CRITICALITY reject TYPE TUTRANGPSMeasurementThresholdInformation
                                                                                                                                       PRESENCE
mandatory }|
     ID id-SFNSFNMeasurementThresholdInformation CRITICALITY reject TYPE SFNSFNMeasurementThresholdInformation
                                                                                                                               PRESENCE mandatory } |
     ID id-Load-Value CRITICALITY reject TYPE Load-Value
                                                               PRESENCE mandatory }
     ID id-Transmitted-Carrier-Power-Value
                                               CRITICALITY reject TYPE Transmitted-Carrier-Power-Value
                                                                                                                PRESENCE mandatory }
     ID id-Received-Total-Wideband-Power-Value
                                                    CRITICALITY reject TYPE Received-Total-Wideband-Power-Value
                                                                                                                        PRESENCE mandatory } |
     ID id-UL-Timeslot-ISCP-Value
                                       CRITICALITY reject TYPE UL-Timeslot-ISCP-Value
                                                                                           PRESENCE mandatory
ļ
                                            ENUMERATED {v4, v8, v16}
MidambleConfigurationBurstTypelAnd3 ::=
```

```
MidambleConfigurationBurstType2 ::=
                                          ENUMERATED \{v3, v6\}
MidambleShiftAndBurstType ::=
                                     CHOICE {
    type1
                                         SEQUENCE
        midambleConfigurationBurstType1And3
                                                  MidambleConfigurationBurstTypelAnd3,
        midambleAllocationMode
                                             CHOICE {
            defaultMidamble
                                                  NULL,
            commonMidamble
                                                  NULL,
            ueSpecificMidamble
                                                  MidambleShiftLong,
            . . .
        },
        . . .
    },
    type2
                                         SEOUENCE
        midambleConfigurationBurstType2
                                             MidambleConfigurationBurstType2,
        midambleAllocationMode
                                             CHOICE {
            defaultMidamble
                                                  NULL,
            commonMidamble
                                                  NULL,
            ueSpecificMidamble
                                                  MidambleShiftShort,
            . . .
        },
        . . .
    },
    type3
                                         SEOUENCE
        midambleConfigurationBurstTypelAnd3 MidambleConfigurationBurstTypelAnd3,
        midambleAllocationMode
                                         CHOICE
            defaultMidamble
                                                  NULL,
                                                  MidambleShiftLong,
            ueSpecificMidamble
            . . .
        },
        . . .
    },
    . . .
}
MidambleShiftLong ::=
                                     INTEGER (0..15)
MidambleShiftShort ::=
                                     INTEGER (0..5)
MidambleShiftLCR ::= SEQUENCE
    midambleAllocationMode
                                 MidambleAllocationMode,
    midambleShift
                                 MidambleShiftLong
                                                          OPTIONAL,
    iE-Extensions
                                 ProtocolExtensionContainer { {MidambleShiftLCR-ExtIEs} }
                                                                                                    OPTIONAL,
    . . .
MidambleAllocationMode ::= ENUMERATED {
    defaultMidamble,
    commonMidamble,
    uESpecificMidamble,
    . . .
```

```
MidambleShiftLCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MinUL-ChannelisationCodeLength
                                    ::= ENUMERATED
    v4,
    v8,
    v16,
    v32,
    v64,
    v128.
    v256
Modulation ::= ENUMERATED {
    qPSK,
    eightPSK,
    . . .
MultiplexingPosition ::= ENUMERATED {
    fixed.
    flexible
}
-- N
NCC ::= BIT STRING (SIZE (3))
Neighbouring-UMTS-CellInformation ::= SEQUENCE (SIZE (1..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Single-Container {{ Neighbouring-UMTS-
CellInformationItemIE }}
Neighbouring-UMTS-CellInformationItemIE RNSAP-PROTOCOL-IES ::= {
    { ID id-Neighbouring-UMTS-CellInformationItem CRITICALITY ignore TYPE
                                                                                Neighbouring-UMTS-CellInformationItem
                                                                                                                                         mandatory
                                                                                                                         PRESENCE
Neighbouring-UMTS-CellInformationItem ::= SEQUENCE
    rNC-ID
                                            RNC-ID,
    cN-PS-DomainIdentifier
                                            CN-PS-DomainIdentifier
                                                                         OPTIONAL,
    cN-CS-DomainIdentifier
                                            CN-CS-DomainIdentifier
                                                                         OPTIONAL,
    neighbouring-FDD-CellInformation
                                            Neighbouring-FDD-CellInformation
                                                                                 OPTIONAL,
    neighbouring-TDD-CellInformation
                                            Neighbouring-TDD-CellInformation
                                                                                OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { {Neighbouring-UMTS-CellInformationItem-ExtIEs} } OPTIONAL,
    . . .
Neighbouring-UMTS-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-neighbouring-LCR-TDD-CellInformation
                                                            CRITICALITY ignore
                                                                                     EXTENSION
                                                                                                Neighbouring-LCR-TDD-CellInformation
    PRESENCE optional },
```

```
Neighbouring-FDD-CellInformation ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Neighbouring-FDD-CellInformationItem
Neighbouring-FDD-CellInformationItem ::= SEOUENCE {
    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 { { Neighbouring-FDD-CellInformationItem-ExtIEs } } OPTIONAL,
    . . .
Neighbouring-FDD-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-RestrictionStateIndicator
                                                    CRITICALITY ignore
                                                                                 EXTENSION RestrictionStateIndicator
                                                                                                                                 PRESENCE optional
     ID id-DPC-Mode-Change-SupportIndicator
                                                CRITICALITY ignore
                                                                         EXTENSION DPC-Mode-Change-SupportIndicator
                                                                                                                                 PRESENCE optional },
    . . .
ļ
NeighbouringFDDCellMeasurementInformation ::= SEQUENCE {
    uC-ID
                                        UC-ID,
    UARFCN
                                        UARFCN,
    primaryScramblingCode
                                        PrimaryScramblingCode,
    iE-Extensions
                                        ProtocolExtensionContainer { { NeighbouringFDDCellMeasurementInformationItem-ExtIEs } } OPTIONAL,
    . . .
NeighbouringFDDCellMeasurementInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Neighbouring-GSM-CellInformation ::= ProtocolIE-Single-Container {{ Neighbouring-GSM-CellInformationIE }}
Neighbouring-GSM-CellInformationIE RNSAP-PROTOCOL-IES ::= {
    { ID id-Neighbouring-GSM-CellInformation
                                               CRITICALITY ignore TYPE
                                                                            Neighbouring-GSM-CellInformationIEs PRESENCE
                                                                                                                                 mandatory
Neighbouring-GSM-CellInformationIEs ::= SEQUENCE ( SIZE (1..maxNrOfGSMNeighboursPerRNC,...)) OF Neighbouring-GSM-CellInformationItem
Neighbouring-GSM-CellInformationItem ::= SEQUENCE {
    cGI
                                        CGI,
```

```
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    cellIndividualOffset
                                        CellIndividualOffset
                                                                 OPTIONAL,
    bSIC
                                        BSIC.
    band-Indicator
                                        Band-Indicator.
    bCCH-ARFCN
                                        BCCH-ARFCN,
                                        ProtocolExtensionContainer { { Neighbouring-GSM-CellInformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Neighbouring-GSM-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Neighbouring-TDD-CellInformation ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Neighbouring-TDD-CellInformationItem
Neighbouring-TDD-CellInformationItem ::= SEQUENCE {
    c-ID
                                    C-ID,
    uARFCNforNt
                                    UARFCN,
    frameOffset
                                    FrameOffset
                                                         OPTIONAL,
    cellParameterID
                                    CellParameterID,
    syncCase
                                    SyncCase,
    timeSlot
                                    TimeSlot
                                                         OPTIONAL
    -- This IE shall be present if Sync Case = Case1 -- ,
    sCH-TimeSlot
                                    SCH-TimeSlot
                                                             OPTIONAL
    -- This IE shall be present if Sync Case = Case2 -- ,
    sCTD-Indicator
                            SCTD-Indicator,
    cellIndividualOffset
                                    CellIndividualOffset
                                                             OPTIONAL.
    dPCHConstantValue
                                    DPCHConstantValue OPTIONAL,
    pCCPCH-Power
                                    PCCPCH-Power
                                                             OPTIONAL,
                                    ProtocolExtensionContainer { { Neighbouring-TDD-CellInformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Neighbouring-TDD-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-RestrictionStateIndicator
                                                     CRITICALITY ignore
                                                                                 EXTENSION RestrictionStateIndicator
                                                                                                                                  PRESENCE optional
    },
    . . .
}
NeighbouringTDDCellMeasurementInformation ::= SEQUENCE {
    uC-ID
                                        UC-ID,
    UARFCN
                                        UARFCN,
    cellParameterID
                                        CellParameterID,
                                        TimeSlot
    timeSlot
                                                                     OPTIONAL,
    midambleShiftAndBurstType
                                        MidambleShiftAndBurstType
                                                                     OPTIONAL,
                                        ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationItem-ExtIEs } } OPTIONAL.
    iE-Extensions
    . . .
```

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

• • •

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

```
Neighbouring-LCR-TDD-CellInformationItem ::= SEQUENCE {
    c-ID
                                     C-ID,
    uARFCNforNt
                                     UARFCN,
    frameOffset
                                     FrameOffset
                                                         OPTIONAL,
    cellParameterID
                                     CellParameterID,
    sCTD-Indicator
                            SCTD-Indicator,
                                     CellIndividualOffset
    cellIndividualOffset
                                                             OPTIONAL,
                                     DPCHConstantValue OPTIONAL,
    dPCHConstantValue
    pCCPCH-Power
                                     PCCPCH-Power
                                                             OPTIONAL,
    restrictionStateIndicator
                                     RestrictionStateIndicator
                                                                     OPTIONAL,
    iE-Extensions
                                     ProtocolExtensionContainer { { Neighbouring-LCR-TDD-CellInformationItem-ExtIEs } } OPTIONAL,
    . . .
Neighbouring-LCR-TDD-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
NrOfDLchannelisationcodes ::= INTEGER (1..8)
NrOfTransportBlocks
                            ::= INTEGER (0..512)
-- O
OnModification ::= SEQUENCE {
    measurementThreshold
                            MeasurementThreshold,
    iE-Extensions
                            ProtocolExtensionContainer { {OnModification-ExtIEs} } OPTIONAL,
    . . .
}
OnModification-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
OnModificationInformation ::= SEQUENCE {
    informationThreshold
                          InformationThreshold,
    iE-Extensions
                            ProtocolExtensionContainer { {OnModificationInformation-ExtIEs} } OPTIONAL,
    . . .
}
OnModificationInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
-- P
```

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```
PagingCause ::= ENUMERATED {
    terminating-conversational-call,
    terminating-streaming-call,
    terminating-interactive-call,
    terminating-background-call,
    terminating-low-priority-signalling,
    ...,
    terminating-high-priority-signalling,
    terminating-cause-unknown
-- See in [16]
PagingRecordType ::= ENUMERATED {
    imsi-qsm-map,
    tmsi-qsm-map,
    p-tmsi-qsm-map,
    imsi-ds-41,
    tmsi-ds-41,
    . . .
-- See in [16]
PayloadCRC-PresenceIndicator ::= ENUMERATED {
    crc-included,
    crc-not-included
}
PCCPCH-Power ::= INTEGER (-150..400,...)
-- PCCPCH-power = power * 10
-- If power <= -15 PCCPCH shall be set to -150
-- If power >= 40 PCCPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step 0.1dBm
PCH-InformationList ::= SEQUENCE (SIZE(0..1)) OF PCH-InformationItem
PCH-InformationItem ::= SEQUENCE {
    transportFormatSet
                                     TransportFormatSet,
                                     ProtocolExtensionContainer { { PCH-InformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
ļ
PCH-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PC-Preamble ::= INTEGER(0..7,...)
PDSCHCodeMapping ::= SEQUENCE {
    dL-ScramblingCode
                            DL-ScramblingCode,
                            PDSCHCodeMapping-SignallingMethod,
    signallingMethod
    iE-Extensions
                            ProtocolExtensionContainer { { PDSCHCodeMapping-ExtIEs } } OPTIONAL,
```

```
PDSCHCodeMapping-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
l
PDSCHCodeMapping-SignallingMethod ::= CHOICE {
    pDSCHCodeMapping-SignallingMethod-CodeRange
                                                     PDSCHCodeMapping-SignallingMethod-CodeRange,
    pDSCHCodeMapping-SignallingMethod-TFCIRange
                                                     PDSCHCodeMapping-SignallingMethod-TFCIRange,
    pDSCHCodeMapping-SignallingMethod-Explicit
                                                     PDSCHCodeMapping-SignallingMethod-Explicit,
    ...,
    pDSCHCodeMapping-SignallingMethod-Replace
                                                     PDSCHCodeMapping-SignallingMethod-Replace
PDSCHCodeMapping-SignallingMethod-CodeRange ::= SEQUENCE (SIZE (1..maxNoCodeGroups)) OF
    SEOUENCE
        spreadingFactor
                                SpreadingFactor,
        multi-code-info
                                Multi-code-info,
        start-CodeNumber
                                CodeNumber,
        stop-CodeNumber
                                CodeNumber,
                                ProtocolExtensionContainer { { PDSCHCodeMapping-SignallingMethod-CodeRange-ExtlEs } } OPTIONAL,
        iE-Extensions
        . . .
PDSCHCodeMapping-SignallingMethod-CodeRange-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
PDSCHCodeMapping-SignallingMethod-TFCIRange ::= SEQUENCE (SIZE (1..maxNoTFCIGroups)) OF
    SEQUENCE {
                                MaxTFCIvalue,
        maxTFCIvalue
        spreadingFactor
                                SpreadingFactor,
        multi-code-info
                                Multi-code-info,
        codeNumber
                                CodeNumber,
                                ProtocolExtensionContainer { { PDSCHCodeMapping-SignallingMethod-TFCIRange-ExtIEs } } OPTIONAL,
        iE-Extensions
        . . .
PDSCHCodeMapping-SignallingMethod-TFCIRange-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
PDSCHCodeMapping-SignallingMethod-Explicit ::= SEQUENCE (SIZE (1..maxTFCI2Combs)) OF
    SEQUENCE
        spreadingFactor
                                SpreadingFactor,
        multi-code-info
                                Multi-code-info,
        codeNumber
                                CodeNumber,
                                ProtocolExtensionContainer { { PDSCHCodeMapping-SignallingMethod-Explicit-ExtIEs } } OPTIONAL,
        iE-Extensions
        . . .
```

```
PDSCHCodeMapping-SignallingMethod-Explicit-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PDSCHCodeMapping-SignallingMethod-Replace ::= SEQUENCE (SIZE (1..maxTFCI2Combs)) OF
    SEQUENCE {
        tfci-Field2
                                     TFCS-MaxTFCI-field2-Value,
        spreadingFactor
                                     SpreadingFactor,
        multi-CodeInfo
                                     Multi-code-info,
        codeNumber
                                     CodeNumber,
        iE-Extensions
                                     ProtocolExtensionContainer { { PDSCHCodeMapping-SignallingMethod-Replace-ExtIEs } }
                                                                                                                                    OPTIONAL,
    . . .
}
PDSCHCodeMapping-SignallingMethod-Replace-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Periodic ::= SEQUENCE {
    reportPeriodicity
                            ReportPeriodicity,
                            ProtocolExtensionContainer { {Periodic-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
}
Periodic-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
PeriodicInformation ::= SEQUENCE {
    informationReportPeriodicity
                                         InformationReportPeriodicity,
    iE-Extensions
                                         ProtocolExtensionContainer { {PeriodicInformation-ExtIEs} } OPTIONAL,
    . . .
}
PeriodicInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Permanent-NAS-UE-Identity ::= CHOICE {
    imsi
                IMSI,
    . . .
}
PLMN-Identity ::= OCTET STRING (SIZE(3))
PowerAdjustmentType ::= ENUMERATED {
    none,
    common,
    individual
}
```

```
PowerOffset
                       ::= INTEGER (0..24)
PRC ::= INTEGER (-2047..2047)
--pseudo range correction; scaling factor 0.32 meters
PRCDeviation ::= ENUMERATED {
    prcd1,
   prcd2,
    prcd5,
    prcd10,
    . . .
ι
Pre-emptionCapability ::= ENUMERATED {
    shall-not-trigger-pre-emption,
    may-trigger-pre-emption
}
Pre-emptionVulnerability ::= ENUMERATED {
    not-pre-emptable,
    pre-emptable
}
PredictedSFNSFNDeviationLimit ::= INTEGER (1..16384)
PredictedTUTRANGPSDeviationLimit ::= INTEGER (1..1048576)
PrimaryCPICH-Power
                          ::= INTEGER (-100..500)
-- step 0.1 (Range -10.0..50.0) Unit is dBm
PrimaryCPICH-EcNo
                           ::= INTEGER (-30..30)
PrimaryCCPCH-RSCP
                          ::= INTEGER (0..91)
-- According to maping in [14]
PrimaryScramblingCode
                                ::= INTEGER (0..511)
                           ::= INTEGER (0..15)
PriorityLevel
-- 0 = spare, 1 = highest priority, ...14 = lowest priority and 15 = no priority
PropagationDelay
                           ::= INTEGER (0..255)
PunctureLimit
                           ::= INTEGER (0..15)
-- 0: 40%; 1: 44%; ... 14: 96%; 15: 100
-- O
OE-Selector ::= ENUMERATED {
    selected,
    non-selected
```

-- R RAC ::= OCTET STRING (SIZE(1)) RANAP-RelocationInformation ::= BIT STRING Range-Correction-Rate ::= INTEGER (-127..127) -- scaling factor 0.032 m/s RateMatchingAttribute ::= INTEGER (1..maxRateMatching) RB-Identity ::= INTEGER (0..31) RB-Info ::= SEQUENCE (SIZE(1..maxNoOfRB)) OF RB-Identity Received-Total-Wideband-Power-Value ::= Received-total-wide-band-power Received-Total-Wideband-Power-Value-IncrDecrThres ::= INTEGER(0..620) -- Unit dB Step 0.1dB -- e.g. value 100 means 10dB RefTFCNumber ::= INTEGER (0..15) RepetitionLength ::= INTEGER (1..63) RepetitionPeriod ::= ENUMERATED { v1, v2, v4, v8, v16, v32, v64 } RepetitionNumber0 ::= INTEGER (0..255) RepetitionNumber1 ::= INTEGER (1..256) ReportCharacteristics ::= CHOICE { onDemand NULL, periodic Periodic, eventA EventA, eventB EventB, EventC, eventC EventD, eventD eventE EventE, eventF EventF,

```
extension-ReportCharacteristics
                                        Extension-ReportCharacteristics
}
Extension-ReportCharacteristics ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsIE }}
Extension-ReportCharacteristicsIE RNSAP-PROTOCOL-IES ::= {
    { ID id-OnModification CRITICALITY reject TYPE OnModification
                                                                         PRESENCE mandatory }
}
ReportPeriodicity ::= CHOICE {
                            INTEGER (1..6000,...),
    ten-msec
-- 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
    . . .
RequestedDataValue ::= SEQUENCE {
    gA-AccessPointPositionwithAltitude
                                                GA-AccessPointPositionwithOptionalAltitude OPTIONAL,
    iPDLParameters
                                                IPDLParameters
                                                                                             OPTIONAL,
    dGPSCorrections
                                                DGPSCorrections
                                                                                             OPTIONAL.
                                                GPS-NavigationModel-and-TimeRecovery
    gPS-NavigationModel-and-TimeRecovery
                                                                                             OPTIONAL,
    gPS-Ionospheric-Model
                                                GPS-Ionospheric-Model
                                                                                             OPTIONAL,
                                                GPS-UTC-Model
    qPS-UTC-Model
                                                                                             OPTIONAL,
    qPS-Almanac
                                                GPS-Almanac
                                                                                             OPTIONAL,
                                                GPS-RealTime-Integrity
    qPS-RealTime-Integrity
                                                                                             OPTIONAL,
    gPS-RX-POS
                                                GPS-RX-POS
                                                                                             OPTIONAL,
    sFNSFN-GA-AccessPointPosition
                                                GA-AccessPointPositionwithOptionalAltitude OPTIONAL,
                                                ProtocolExtensionContainer { { RequestedDataValue-ExtIEs} }
    iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
RequestedDataValue-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RequestedDataValueInformation ::= CHOICE {
    informationAvailable
                                InformationAvailable,
    informationNotAvailable
                                InformationNotAvailable
}
RestrictionStateIndicator ::= ENUMERATED {
    cellNotResevedForOperatorUse,
    cellResevedForOperatorUse,
    . . .
RL-ID
                        ::= INTEGER (0..31)
```

RL-Set-ID ::= INTEGER (0..31) RNC-ID ::= INTEGER (0..4095) Round-Trip-Time-IncrDecrThres ::= INTEGER(0...32766) Round-Trip-Time-Value ::= INTEGER(0...32767) -- According to mapping in [23] RSCP-Value ::= INTEGER (0..127) -- According to mapping in [24] RSCP-Value-IncrDecrThres ::= INTEGER (0..126) Received-total-wide-band-power ::= INTEGER (0..621) -- According to mapping in [23] RxTimingDeviationForTA ::= INTEGER (0..127) -- As specified in [5], ch. 6.2.7.6 -- For 1.28Mcps TDD this IE must be set to 0. Rx-Timing-Deviation-Value ::= INTEGER (0..8191) --According to mapping in [24][3.84Mcps TDD only] Rx-Timing-Deviation-Value-LCR ::= INTEGER (0..255) --According to mapping in [24][1.28Mcps TDD only] -- S SAC ::= OCTET STRING (SIZE (2)) SAI ::= SEQUENCE { pLMN-Identity PLMN-Identity, 1AC LAC, sAC SAC, iE-Extensions ProtocolExtensionContainer { {SAI-ExtIEs} } OPTIONAL ļ SAI-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . SAT-ID ::= INTEGER (0..63) SCH-TimeSlot ::= INTEGER (0..6) ScaledAdjustmentRatio ::= INTEGER(0..100) -- AdjustmentRatio = ScaledAdjustmentRatio / 100 Secondary-CCPCH-Info::= SEQUENCE {

```
fDD-S-CCPCH-Offset
                                             FDD-S-CCPCH-Offset,
    dl-ScramblingCode
                                             DL-ScramblingCode,
                                             FDD-DL-ChannelisationCodeNumber,
    fDD-DL-ChannelisationCodeNumber
    dl-TFCS
                                             TFCS,
    secondaryCCPCH-SlotFormat
                                             SecondaryCCPCH-SlotFormat,
    tFCI-Presence
                                             TFCI-Presence OPTIONAL,
    -- This IE shall be present only if the Secondary CCPCH Slot Format IE is equal to any of the values from 8 to 17
    multiplexingPosition
                                             MultiplexingPosition,
    sTTD-Indicator
                                             STTD-Indicator,
    fACH-PCH-InformationList
                                             FACH-PCH-InformationList,
    iB-schedulingInformation
                                             IB-SchedulingInformation,
    iE-Extensions
                                             ProtocolExtensionContainer { { Secondary-CCPCH-Info-ExtIEs } } OPTIONAL,
    . . .
Secondary-CCPCH-Info-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Secondary-CCPCH-Info-TDD::= SEQUENCE {
    dl-TFCS
                                             TFCS,
    tFCI-Coding
                                             TFCI-Coding,
    secondary-CCPCH-TDD-InformationList
                                             Secondary-CCPCH-TDD-InformationList,
                                             FACH-InformationList,
    fACH-InformationList
    pCH-InformationList
                                             PCH-InformationList,
    iE-Extensions
                                             ProtocolExtensionContainer { { Secondary-CCPCH-Info-TDD-ExtIEs } } OPTIONAL,
    . . .
Secondary-CCPCH-Info-TDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Secondary-LCR-CCPCH-Info-TDD::= SEQUENCE {
    dl-TFCS
                                             TFCS,
    tFCI-Coding
                                             TFCI-Coding,
    secondary-LCR-CCPCH-TDD-InformationList Secondary-LCR-CCPCH-TDD-InformationList,
                                             FACH-InformationList,
    fACH-InformationList
    pCH-InformationList
                                             PCH-InformationList,
    iE-Extensions
                                             ProtocolExtensionContainer { { Secondary-LCR-CCPCH-Info-TDD-ExtIEs } } OPTIONAL,
    . . .
Secondary-LCR-CCPCH-Info-TDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Secondary-CCPCH-TDD-InformationList ::= SEQUENCE (SIZE(0.. maxNrOfSCCPCHs)) OF Secondary-CCPCH-TDD-InformationItem
Secondary-CCPCH-TDD-InformationItem ::= SEQUENCE {
    timeSlot
                                    TimeSlot,
```

```
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    midambleShiftAndBurstType
                                    MidambleShiftAndBurstType,
    tFCI-Presence
                                    TFCI-Presence.
    secondary-CCPCH-TDD-Code-Information
                                                         Secondary-CCPCH-TDD-Code-Information.
    tDD-PhysicalChannelOffset
                                    TDD-PhysicalChannelOffset,
                                    RepetitionLength,
    repetitionLength
    repetitionPeriod
                                    RepetitionPeriod,
                                    ProtocolExtensionContainer { { Secondary-CCPCH-TDD-InformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Secondary-CCPCH-TDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    . . .
Secondary-LCR-CCPCH-TDD-InformationList ::= SEOUENCE (SIZE(0.. maxNrOfSCCPCHs)) OF Secondary-LCR-CCPCH-TDD-InformationItem
Secondary-LCR-CCPCH-TDD-InformationItem ::= SEOUENCE {
    timeSlotLCR
                                                TimeSlotLCR,
    midambleShiftLCR
                                                MidambleShiftLCR,
    tFCI-Presence
                                                TFCI-Presence,
    secondary-LCR-CCPCH-TDD-Code-Information
                                                Secondary-LCR-CCPCH-TDD-Code-Information,
    tDD-PhysicalChannelOffset
                                                TDD-PhysicalChannelOffset,
    repetitionLength
                                                RepetitionLength,
    repetitionPeriod
                                                RepetitionPeriod,
    iE-Extensions
                                                ProtocolExtensionContainer { { Secondary-LCR-CCPCH-TDD-InformationItem-ExtIEs } } OPTIONAL,
    . . .
Secondary-LCR-CCPCH-TDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Secondary-CCPCH-TDD-Code-Information ::= SEQUENCE ( SIZE (1..maxNrOfSCCPCHs)) OF Secondary-CCPCH-TDD-Code-InformationItem
Secondary-CCPCH-TDD-Code-InformationItem ::= SEQUENCE {
    tDD-ChannelisationCode
                                    TDD-ChannelisationCode,
    iE-Extensions
                                    ProtocolExtensionContainer { {Secondary-CCPCH-TDD-Code-InformationItem-ExtIEs} } OPTIONAL,
Secondary-CCPCH-TDD-Code-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Secondary-LCR-CCPCH-TDD-Code-Information ::= SEQUENCE ( SIZE (1..maxNrOfSCCPCHs)) OF Secondary-LCR-CCPCH-TDD-Code-InformationItem
Secondary-LCR-CCPCH-TDD-Code-InformationItem ::= SEQUENCE {
    tDD-ChannelisationCodeLCR
                                    TDD-ChannelisationCodeLCR,
    iE-Extensions
                                    ProtocolExtensionContainer { {Secondary-LCR-CCPCH-TDD-Code-InformationItem-ExtIEs} } OPTIONAL,
    . . .
```

```
Secondary-LCR-CCPCH-TDD-Code-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
SecondInterleavingMode ::= ENUMERATED {
    frame-related,
    timeslot-related,
    . . .
Seed ::= INTEGER (0..63)
SFN ::= INTEGER (0..4095)
SFNSFN-FDD ::= INTEGER(0..614399)
SFNSFN-TDD ::= INTEGER(0..40961)
GA-AccessPointPositionwithOptionalAltitude ::= SEQUENCE
    geographicalCoordinate
                                                 GeographicalCoordinate,
    altitudeAndDirection
                                                 GA-AltitudeAndDirection OPTIONAL,
                                                 ProtocolExtensionContainer { { GA-AccessPointPositionwithOptionalAltitude-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
GA-AccessPointPositionwithOptionalAltitude-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
SFNSFNChangeLimit ::= INTEGER (1..16384)
SFNSFNDriftRate ::= INTEGER (-100..100)
SFNSFNDriftRateQuality ::= INTEGER (0..100)
SFNSFNMeasurementThresholdInformation::= SEQUENCE {
    sFNSFNChangeLimit
                                         SFNSFNChangeLimit
                                                                              OPTIONAL,
    predictedSFNSFNDeviationLimit
                                         PredictedSFNSFNDeviationLimit
                                                                              OPTIONAL,
    iE-Extensions
                                     ProtocolExtensionContainer { { SFNSFNMeasurementThresholdInformation-ExtIEs} }
                                                                                                                                   OPTIONAL,
    . . .
SFNSFNMeasurementThresholdInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SFNSFNMeasurementValueInformation ::= SEQUENCE {
    {\tt successfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformation}
                                                                                          SEQUENCE (SIZE(1..maxNrOfMeasNCell)) OF
        SEOUENCE {
```

```
uC-ID
                        UC-ID,
            sFNSFNValue
                                         SFNSFNValue,
            sFNSFNOuality
                                         SFNSFNOuality
                                                             OPTIONAL.
            sFNSFNDriftRate
                                         SFNSFNDriftRate,
            sFNSFNDriftRateQuality
                                         SFNSFNDriftRateOuality,
            sFNSFNTimeStampInformation SFNSFNTimeStampInformation,
            iE-Extensions
                                         ProtocolExtensionContainer { {
SuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs } }
                                                                                                  OPTIONAL,
            . . .
        },
    unsuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformation
                                                                                          SEQUENCE (SIZE(0..maxNrOfMeasNCell-1)) OF
        SEOUENCE {
            uC-ID
                        UC-ID.
            iE-Extensions
                                ProtocolExtensionContainer { {    UnsuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-
ExtIEs} }
                OPTIONAL,
            . . .
        },
                        ProtocolExtensionContainer { { SFNSFNMeasurementValueInformationItem-ExtIEs } }
    iE-Extensions
                                                                                                                   OPTIONAL,
    . . .
}
SFNSFNMeasurementValueInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UnsuccessfullNeighbouringCellSFNSFNObservedTimeDifferenceMeasurementInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SFNSFNOuality ::= INTEGER (0..16383)
SFNSFNTimeStampInformation ::= CHOICE {
    sFNSFNTimeStamp-FDD
                            SFN,
    sFNSFNTimeStamp-TDD
                            SFNSFNTimeStamp-TDD,
    . . .
}
SFNSFNTimeStamp-TDD::= SEQUENCE {
    sFN
                        SFN,
    timeSlot
                        TimeSlot,
    iE-Extensions
                                     ProtocolExtensionContainer { { SFNSFNTimeStamp-ExtIEs } OPTIONAL,
    . . .
```

```
SFNSFNTimeStamp-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
SFNSFNValue ::= CHOICE {
    sFNSFN-FDD
                   SFNSFN-FDD,
    sFNSFN-TDD
                   SFNSFN-TDD,
    . . .
}
SIR-Error-Value ::= INTEGER (0..125)
SIR-Error-Value-IncrDecrThres
                                      ::= INTEGER (0..124)
SIR-Value
                      ::= INTEGER (0..63)
-- According to mapping in 25.215/25.225
SIR-Value-IncrDecrThres ::= INTEGER (0..62)
SecondaryCCPCH-SlotFormat
                          ::= INTEGER (0..17,...)
-- refer to 25.211
S-FieldLength
                        ::= ENUMERATED {
   v1,
   v2,
    . . .
}
SpecialBurstScheduling ::= INTEGER (1..256)
SpreadingFactor ::= INTEGER (4| 8| 16| 32| 64| 128| 256)
S-RNTI
                      ::= INTEGER (0..1048575)
-- From 0 to 2^20-1
SRB-Delay ::= INTEGER(0...7,...)
SSDT-CellID ::= ENUMERATED {
    a,
    b,
    c,
   d,
    e,
    f,
    g,
   h
```

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```
SSDT-CellID-Length ::= ENUMERATED {
    short,
    medium,
    long
}
SSDT-Indication ::= ENUMERATED {
    sSDT-active-in-the-UE,
    sSDT-not-active-in-the-UE
}
SSDT-SupportIndicator ::= ENUMERATED {
    sSDT-supported,
    sSDT-not-supported
}
STTD-Indicator ::= ENUMERATED {
    active,
    inactive
}
STTD-SupportIndicator ::= ENUMERATED {
    sTTD-Supported,
    sTTD-not-Supported
}
SyncCase ::= INTEGER (1..2,...)
SynchronisationConfiguration ::= SEQUENCE {
    n-INSYNC-IND
                           INTEGER (1..256),
    n-OUTSYNC-IND
                            INTEGER (1..256),
    t-RLFAILURE
                            INTEGER (0..255),
-- Unit seconds, Range 0s .. 25.5s, Step 0.1s
    iE-Extensions
                            ProtocolExtensionContainer { { SynchronisationConfiguration-ExtIEs } }
                                                                                                           OPTIONAL,
    . . .
}
SynchronisationConfiguration-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
-- T
TDD-ChannelisationCode
                                ::= ENUMERATED {
    chCodeldiv1,
    chCode2div1,
    chCode2div2,
    chCode4div1,
    chCode4div2,
    chCode4div3,
    chCode4div4,
```

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chCode8div1,	
chCode8div2,	
chCode8div3,	
chCode8div4,	
chCode8div5.	
chCode8div6	
chCode8div7	
chCode8div8	
chCodel6div1	
chCodel6div2	
chCode16div3	
chCodel6div4	
chCodel6div5	
chCodel6div6	
chCodel6div7	
chCodel6div8	
cheddal6diw0	
chCodel6div10	
chCode16div10,	
chCodel6div12	
chCode16div12,	
chCodel6div14	
chCode16div15	
checodelodivis,	
chcodel6d1V16,	
}	
TDD-ChannelisationCodeLCR ::= SEQUE	NCE {
tDD-ChannelisationCode	TDD-ChannelisationCode,
modulation	Modulation, Modulation options for 1.28Mcps TDD in contrast to 3.84Mcps TDD
、 ···	
}	
TDD-DCHs-to-Modify ::= SEQUENCE (SI	ZE (1maxNrOfDCHs)) OF TDD-DCHs-to-ModifyItem
TDD-DCHs-to-ModifyItem ::= SEQUENCE	{
ul-FP-Mode	UL-FP-Mode OPTIONAL,
toAWS	TOAWS OPTIONAL,
toAWE	TOAWE OPTIONAL,
transportBearerRequestIndicator	TransportBearerRequestIndicator,
dCH-SpecificInformationList	TDD-DCHs-to-ModifySpecificInformationList,
iE-Extensions	ProtocolExtensionContainer { { TDD-DCHs-to-ModifyItem-ExtIEs } } OPTIONAL,
}	
TDD-DCHs-to-ModifyItem-ExtIEs RNSAP	-PROTOCOL-EXTENSION ::= {
	(
}	
TDD-DCHs-to-ModifySpecificInformati	onList ::= SEQUENCE (SIZE (1maxNrOfDCHs)) OF TDD-DCHs-to-ModifySpecificItem

```
TDD-DCHs-to-ModifySpecificItem ::= SEQUENCE {
    dCH-ID
                                    DCH-ID,
    ul-CCTrCH-ID
                                    CCTrCH-ID
                                                     OPTIONAL.
    dl-CCTrCH-ID
                                    CCTrCH-ID
                                                     OPTIONAL,
    ul-TransportformatSet
                                    TransportFormatSet OPTIONAL,
    dl-TransportformatSet
                                    TransportFormatSet OPTIONAL,
    allocationRetentionPriority
                                    AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority
                                    FrameHandlingPriority OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {TDD-DCHs-to-ModifySpecificItem-ExtIEs} } OPTIONAL,
    . . .
TDD-DCHs-to-ModifySpecificItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-Guaranteed-Rate-Information
                                            CRITICALITY ignore EXTENSION Guaranteed-Rate-Information
                                                                                                                  PRESENCE optional,
      ID id-TrafficClass
                                CRITICALITY ignore EXTENSION TrafficClass
                                                                                 PRESENCE optional }
TDD-DL-Code-Information ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF TDD-DL-Code-InformationItem
TDD-DL-Code-InformationItem ::= SEQUENCE {
    dPCH-ID
                                    DPCH-ID,
    tDD-ChannelisationCode
                                    TDD-ChannelisationCode.
    iE-Extensions
                                    ProtocolExtensionContainer { {TDD-DL-Code-InformationItem-ExtIEs} } OPTIONAL,
    . . .
}
TDD-DL-Code-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TDD-DL-Code-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHsLCR)) OF TDD-DL-Code-LCR-InformationItem
TDD-DL-Code-LCR-InformationItem ::= SEQUENCE {
    dPCH-ID
                                            DPCH-ID,
    tdd-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR,
                                            ProtocolExtensionContainer { { TDD-DL-Code-LCR-InformationItem-ExtIEs } }
    iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
TDD-DL-Code-LCR-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TDD-DPCHOffset ::= CHOICE {
    initialOffset
                        INTEGER (0..255),
    noinitialOffset
                        INTEGER (0..63)
TDD-PhysicalChannelOffset
                                ::= INTEGER (0..63)
```
```
TDD-TPC-DownlinkStepSize ::= ENUMERATED {
    step-sizel,
    step-size2,
    step-size3,
    . . .
TDD-UL-Code-Information ::= SEQUENCE ( SIZE (1..maxNrOfDPCHs)) OF TDD-UL-Code-InformationItem
TDD-UL-Code-InformationItem ::= SEQUENCE {
    dPCH-ID
                                     DPCH-ID,
    tDD-ChannelisationCode
                                     TDD-ChannelisationCode,
    iE-Extensions
                                     ProtocolExtensionContainer { {TDD-UL-Code-InformationItem-ExtIEs} } OPTIONAL,
    . . .
}
TDD-UL-Code-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TDD-UL-Code-LCR-Information ::= SEQUENCE (SIZE (1..maxNrOfDPCHsLCR)) OF TDD-UL-Code-LCR-InformationItem
TDD-UL-Code-LCR-InformationItem ::= SEQUENCE
    dPCH-ID
                                             DPCH-ID,
    tdd-ChannelisationCodeLCR
                                             TDD-ChannelisationCodeLCR,
    iE-Extensions
                                             ProtocolExtensionContainer { { TDD-UL-Code-LCR-InformationItem-ExtIEs } }
                                                                                                                                   OPTIONAL,
    . . .
}
TDD-UL-Code-LCR-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TFCI-Coding ::= ENUMERATED {
    v4,
    v8,
    v16,
    v32,
    . . .
}
TFCI-Presence ::= ENUMERATED {
    present,
    not-present
}
TFCI-SignallingMode ::= ENUMERATED {
    normal,
    split
}
```

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TGD ::= INTEGER (0|15..269) -- 0 = Undefined, only one transmission gap in the transmission gap pattern sequence ::= INTEGER (0..511) TGPRC --0 = infinityTGPSID ::= INTEGER (1.. maxTGPS) ::= INTEGER (0..14) TGSN TimeSlot. ::= INTEGER (0..14) TimeSlotLCR ::= INTEGER (0..6) TimingAdvanceApplied ::= ENUMERATED { yes, no } TOAWE ::= INTEGER (0..2559) TOAWS ::= INTEGER (0..1279) TrafficClass ::= ENUMERATED { conversational, streaming, interactive, background, .<u>..</u> Transmission-Gap-Pattern-Sequence-Information ::= SEQUENCE (SIZE (1..maxTGPS)) OF SEQUENCE { tGPSID TGPSID, tGSN TGSN, tGL1 GapLength, tGL2 GapLength OPTIONAL, tGD TGD, tGPL1 GapDuration, tGPL2 GapDuration OPTIONAL, uL-DL-mode UL-DL-mode, downlink-Compressed-Mode-Method Downlink-Compressed-Mode-Method OPTIONAL, -- This IE shall be 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 shall be present if the value of the UL/DL mode IE is "UL only" or "UL/DL" dL-FrameType DL-FrameType, delta-SIR1 DeltaSIR, delta-SIR-after1 DeltaSIR, delta-SIR2 DeltaSIR OPTIONAL, delta-SIR-after2 DeltaSIR OPTIONAL,

```
iE-Extensions
                                 ProtocolExtensionContainer { {Transmission-Gap-Pattern-Sequence-Information-ExtIEs } } OPTIONAL,
        . . .
Transmission-Gap-Pattern-Sequence-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Transmission-Gap-Pattern-Sequence-ScramblingCode-Information
                                                                ::= ENUMERATED{
   code-change,
   nocode-change
}
Transmission-Gap-Pattern-Sequence-Status-List ::= SEQUENCE (SIZE (0..maxTGPS)) OF
    SEQUENCE {
        tGPSID
                        TGPSID,
        tGPRC
                        TGPRC,
        tGCFN
                        CFN,
                             ProtocolExtensionContainer { { Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs } } OPTIONAL,
        iE-Extensions
        . . .
Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TransmissionTimeIntervalDynamic ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80,
    . . .
TransmissionTimeIntervalSemiStatic ::= ENUMERATED {
    msec-10,
    msec-20,
    msec-40,
    msec-80,
    dynamic,
    . . .
TransmitDiversityIndicator ::= ENUMERATED {
    active,
    inactive
}
Transmitted-Carrier-Power-Value ::= INTEGER(0..100)
-- according to mapping in [23] and [24]
```

```
Transmitted-Carrier-Power-Value-IncrDecrThres ::= INTEGER(0..100)
-- according to mapping in [23] and [24]
TUTRANGPS ::= INTEGER (0..37158911999999)
TUTRANGPSChangeLimit ::= INTEGER (1..1048576)
TUTRANGPSDriftRate ::= INTEGER (-50..50)
TUTRANGPSDriftRateQuality ::= INTEGER (0..50)
TUTRANGPSAccuracyClass ::= ENUMERATED {
    accuracy-class-A,
    accuracy-class-B,
    accuracy-class-C,
    . . .
TUTRANGPSMeasurementThresholdInformation ::= SEQUENCE {
    tUTRANGPSChangeLimit
                                            TUTRANGPSChangeLimit
                                                                                      OPTIONAL,
    predictedTUTRANGPSDeviationLimit
                                            PredictedTUTRANGPSDeviationLimit
                                                                                     OPTIONAL,
                                    ProtocolExtensionContainer { { TUTRANGPSMeasurementThresholdInformation-ExtIEs } }
   iE-Extensions
                                                                                                                                  OPTIONAL,
    . . .
TUTRANGPSMeasurementThresholdInformation-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TUTRANGPSMeasurementValueInformation ::= SEQUENCE {
       tUTRANGPS
                                        TUTRANGPS,
       tUTRANGPSQuality
                                        TUTRANGPSQuality,
       tUTRANGPSDriftRate
                                        TUTRANGPSDriftRate,
       tUTRANGPSDriftRateQuality
                                        TUTRANGPSDriftRateOuality,
                                        ProtocolExtensionContainer { { TUTRANGPSMeasurementValueInformationItem-ExtIEs } }
       iEe-Extensions
                                                                                                                                         OPTIONAL.
        . . .
}
TUTRANGPSMeasurementValueInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TUTRANGPSQuality ::= INTEGER (0..1048575)
TransportBearerID
                        ::= INTEGER (0..4095)
TransportBearerRequestIndicator
                                    ::= ENUMERATED
    bearer-requested,
    bearer-not-requested,
```

```
. . .
}
TransportBlockSize
                            ::= INTEGER (0..5000)
-- Unit is bits
TransportFormatCombination-Beta ::= CHOICE {
    signalledGainFactors SEQUENCE {
        betaC
                                 BetaCD,
        betaD
                                 BetaCD,
        refTFCNumber
                                 RefTFCNumber
                                                 OPTIONAL,
        iE-Extensions
                                 ProtocolExtensionContainer { { SignalledGainFactors-ExtIEs } } OPTIONAL,
        . . .
    },
    refTFCNumber
                            RefTFCNumber,
    . . .
SignalledGainFactors-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TFCS ::= SEQUENCE {
    tFCSvalues
                        CHOICE {
        no-Split-in-TFCI
                                     TFCS-TFCSList,
        split-in-TFCI
                                     SEQUENCE {
            transportFormatCombination-DCH
                                                 TFCS-DCHList,
            signallingMethod
                                                 CHOICE {
                tFCI-Range
                                                 TFCS-MapingOnDSCHList,
                                                      TFCS-DSCHList,
                explicit
                . . .
            },
            iE-Extensions
                                                 ProtocolExtensionContainer { { Split-in-TFCI-ExtIEs } } OPTIONAL,
        . . .
        },
    . . .
    },
                        ProtocolExtensionContainer { { TFCS-ExtIEs} }
                                                                              OPTIONAL,
    iE-Extensions
    . . .
Split-in-TFCI-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TFCS-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TFCS-TFCSList ::= SEQUENCE (SIZE (1..maxNrOfTFCs)) OF
    SEQUENCE {
```

```
CTFC
                            TFCS-CTFC,
       tFC-Beta
                       TransportFormatCombination-Beta
                                                            OPTIONAL,
        -- The IE shall be present if the TFCS concerns a UL DPCH [FDD - or PRACH channel in FDD]
       iE-Extensions
                           ProtocolExtensionContainer { { TFCS-TFCSList-ExtIEs } }
                                                                                         OPTIONAL,
    . . .
}
TFCS-TFCSList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TFCS-CTFC ::= CHOICE {
    ctfc2bit
                                        INTEGER (0..3),
    ctfc4bit
                                        INTEGER (0..15),
    ctfc6bit
                                        INTEGER (0..63),
    ctfc8bit
                                        INTEGER (0..255),
    ctfc12bit
                                        INTEGER (0..4095),
    ctfc16bit
                                        INTEGER (0..65535),
    ctfcmaxbit
                                        INTEGER (0..maxCTFC)
}
TFCS-DCHList ::= SEQUENCE (SIZE (1..maxTFCI1Combs)) OF
    SEQUENCE {
       CTFC
                            TFCS-CTFC.
       iE-Extensions
                            ProtocolExtensionContainer { { TFCS-DCHList-ExtIEs } }
                                                                                         OPTIONAL,
    . . .
}
TFCS-DCHList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TFCS-MapingOnDSCHList ::= SEQUENCE (SIZE (1..maxNoTFCIGroups)) OF
    SEQUENCE {
       maxTFCI-field2-Value
                                    TFCS-MaxTFCI-field2-Value,
                                TFCS-CTFC,
       cTFC-DSCH
                                    ProtocolExtensionContainer { { TFCS-MapingOnDSCHList-ExtIEs} }
                                                                                                                  OPTIONAL,
       iE-Extensions
    . . .
}
TFCS-MapingOnDSCHList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TFCS-MaxTFCI-field2-Value ::= INTEGER (1..maxTFCI2Combs-1)
TFCS-DSCHList ::= SEQUENCE (SIZE (1..maxTFCI2Combs)) OF
    SEQUENCE {
       CTFC-DSCH
                                TFCS-CTFC,
                                    ProtocolExtensionContainer { { TFCS-DSCHList-ExtIEs} }
       iE-Extensions
                                                                                                 OPTIONAL,
    . . .
```

```
TFCS-DSCHList-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TransportFormatSet ::= SEQUENCE {
    dvnamicParts
                            TransportFormatSet-DynamicPartList,
    semi-staticPart
                            TransportFormatSet-Semi-staticPart,
                            ProtocolExtensionContainer { {TransportFormatSet-ExtIEs} } OPTIONAL,
   iE-Extensions
    . . .
ļ
TransportFormatSet-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
ļ
TransportFormatSet-DynamicPartList ::= SEQUENCE (SIZE (1..maxNrOfTFs)) OF
    SEOUENCE {
       nrOfTransportBlocks
                                NrOfTransportBlocks,
        transportBlockSize
                                TransportBlockSize
                                                         OPTIONAL
        -- This IE shall be 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-TransportFormatSet-ModeDP,
    tdd
    notApplicable
                        NULL,
    . . .
TDD-TransportFormatSet-ModeDP ::= SEQUENCE {
    transmissionTimeIntervalInformation
                                            TransmissionTimeIntervalInformation
                                                                                     OPTIONAL,
    -- This IE shall be present if the "Transmission Time Interval" of the "Semi-static Transport Format Information" is "dynamic". Otherwise it is
absent.
    iE-Extensions
                                            ProtocolExtensionContainer { {TDD-TransportFormatSet-ModeDP-ExtIEs} } OPTIONAL,
        . . .
TDD-TransportFormatSet-ModeDP-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TransmissionTimeIntervalInformation ::= SEOUENCE (SIZE (1..maxTTI-Count)) OF
    SEQUENCE {
```

```
TransmissionTimeIntervalDynamic,
        transmissionTimeInterval
        iE-Extensions
                                ProtocolExtensionContainer { { TransmissionTimeIntervalInformation-ExtIEs } } OPTIONAL,
        . . .
TransmissionTimeIntervalInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Transmitted-Code-Power-Value ::= INTEGER (0..127)
-- According to mapping in 25.215/25.225
Transmitted-Code-Power-Value-IncrDecrThres ::= INTEGER (0..112,...)
TransportFormatManagement ::= ENUMERATED {
    cell-based,
    ue-based,
    . . .
}
TransportFormatSet-Semi-staticPart ::= SEQUENCE {
    transmissionTime
                            TransmissionTimeIntervalSemiStatic,
    channelCoding
                            ChannelCodingType,
    codingRate
                        CodingRate
                                                 OPTIONAL
    -- This IE shall be present if channelCoding is 'convolutional' or 'turbo' --,
    rateMatcingAttribute
                                RateMatchingAttribute,
    cRC-Size
                        CRC-Size,
    mode
                        TransportFormatSet-ModeSSP,
                            ProtocolExtensionContainer { {TransportFormatSet-Semi-staticPart-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
TransportFormatSet-Semi-staticPart-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
TransportFormatSet-ModeSSP ::= CHOICE {
                    SecondInterleavingMode,
    tdd
    notApplicable
                            NULL,
    . . .
}
TransportLayerAddress
                                ::= BIT STRING (SIZE(1..160, ...))
TrCH-SrcStatisticsDescr
                            ::= ENUMERATED {
    speech,
    rRC,
    unknown,
    . . .
```

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```
TSTD-Indicator ::= ENUMERATED {
    active,
    inactive
}
TSTD-Support-Indicator ::= ENUMERATED {
    tSTD-supported,
    tSTD-not-supported
}
TxDiversityIndicator
                        ::= ENUMERATED {
    true,
    false
}
TypeOfError ::= ENUMERATED {
    not-understood,
    missing,
    . . .
}
-- U
UARFCN
                        ::= INTEGER (0..16383,...)
-- Corresponds to: 0.0Hz..3276.6Mhz. See 25.101, 25.105
UDRE ::= ENUMERATED {
    lessThan1,
    between1-and-4,
    between4-and-8,
    over8,
    . . .
}
UL-DL-mode ::= ENUMERATED {
    ul-only,
    dl-only,
    both-ul-and-dl
}
UL-Timeslot-Information::= SEQUENCE ( SIZE (1..maxNrOfTS)) OF UL-Timeslot-InformationItem
UL-Timeslot-InformationItem ::= SEQUENCE {
    timeSlot
                                     TimeSlot,
    midambleShiftAndBurstType
                                    MidambleShiftAndBurstType,
    tFCI-Presence
                                     TFCI-Presence,
    uL-Code-Information
                                     TDD-UL-Code-Information,
                                     ProtocolExtensionContainer { {UL-Timeslot-InformationItem-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
```

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OPTIONAL,

UL-Timeslot-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . UL-TimeslotLCR-Information ::= SEQUENCE (SIZE (1..maxNrOfULTsLCR)) OF UL-TimeslotLCR-InformationItem UL-TimeslotLCR-InformationItem ::= SEQUENCE { timeSlotLCR TimeSlotLCR, midambleShiftLCR MidambleShiftLCR, tFCI-Presence TFCI-Presence, uL-Code-LCR-InformationList TDD-UL-Code-LCR-Information, ProtocolExtensionContainer { { UL-TimeslotLCR-InformationItem-ExtIEs } } iE-Extensions . . . UL-TimeslotLCR-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { . . . } UL-TimeSlot-ISCP-Info ::= SEQUENCE (SIZE (1..maxNrOfULTs)) OF UL-TimeSlot-ISCP-InfoItem UL-TimeSlot-ISCP-InfoItem ::= SEQUENCE { timeSlot TimeSlot, uL-TimeslotISCP UL-TimeslotISCP. iE-Extensions ProtocolExtensionContainer { { UL-TimeSlot-ISCP-InfoItem-ExtIEs } } OPTIONAL, . . . ļ

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

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

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

```
UL-TimeSlot-ISCP-LCR-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

```
UL-Timeslot-ISCP-Value ::= UL-TimeslotISCP
```

. . .

}

```
UL-Timeslot-ISCP-Value-IncrDecrThres ::= INTEGER(0..126)
-- Unit dB. Step 0.5dB
-- e.g. Value 100 means 50dB
```

```
Uplink-Compressed-Mode-Method ::= ENUMERATED {
    sFdiv2,
    higher-layer-scheduling,
    . . .
}
UL-SIR
                        ::= INTEGER (-82..173)
-- The UL-SIR gives the UL-SIR in number of 0.1 dB steps.
-- E.g. Value 173 means 17.3 dB
-- Unit dB. Step 0.1 dB.
UC-ID ::= SEQUENCE {
    rNC-ID
                        RNC-ID,
    c-ID
                        C-ID.
    iE-Extensions
                            ProtocolExtensionContainer { {UC-ID-ExtIEs} } OPTIONAL,
    . . .
UC-ID-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCCH-SlotFormat
                            ::= INTEGER (0..5,...)
UL-FP-Mode ::= ENUMERATED {
    normal,
    silent,
    . . .
UL-PhysCH-SF-Variation ::= ENUMERATED {
    sf-variation-supported,
    sf-variation-not-supported
}
UL-ScramblingCode ::= SEQUENCE {
    ul-ScramblingCodeNumber
                                UL-ScramblingCodeNumber,
    ul-ScramblingCodeLength
                                UL-ScramblingCodeLength,
                            ProtocolExtensionContainer { {UL-ScramblingCode-ExtIEs} } OPTIONAL
    iE-Extensions
}
UL-ScramblingCode-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UL-ScramblingCodeLength ::= ENUMERATED {
    short,
    long
}
UL-ScramblingCodeNumber
                                ::= INTEGER (0..16777215)
```

```
UL-TimeslotISCP
                       ::= INTEGER (0..127)
-- According to mapping in [14]
URA-ID
                        ::= INTEGER (0..65535)
URA-Information ::= SEQUENCE {
    uRA-ID
                                        URA-ID,
    multipleURAsIndicator
                                        MultipleURAsIndicator,
    rNCsWithCellsInTheAccessedURA-List RNCsWithCellsInTheAccessedURA-List OPTIONAL,
                                        ProtocolExtensionContainer { {URA-Information-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
ι
URA-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RNCsWithCellsInTheAccessedURA-List ::= SEQUENCE (SIZE (1..maxRNCinURA-1)) OF RNCsWithCellsInTheAccessedURA-Item
RNCsWithCellsInTheAccessedURA-Item ::= SEQUENCE {
    rNC-ID
                                    RNC-ID,
                                     ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-Item-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
RNCsWithCellsInTheAccessedURA-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
USCH-ID
                       ::= INTEGER (0..255)
USCH-Information ::= SEQUENCE (SIZE (1..maxNoOfUSCHs)) OF USCH-InformationItem
USCH-InformationItem ::= SEQUENCE {
    uSCH-ID
                                        USCH-ID,
    ul-CCTrCH-ID
                                        CCTrCH-ID,
                                        TrCH-SrcStatisticsDescr,
    trChSourceStatisticsDescriptor
                                        TransportFormatSet,
    transportFormatSet
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    rb-Info
                                        RB-Info,
                                        ProtocolExtensionContainer { {USCH-InformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
USCH-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
-- V
```

- -- W -- X -- Y

- -- Z

END

CHANGE REQUEST							
ж	25.423 CR 506 * rev 2 * Current version: 4.3.0 *						
For <u>HELP</u> on us	sing this form, see bottom of this page or look at the pop-up text over the $#$ symbols.						
Proposed change a	affects: # (U)SIM ME/UE Radio Access Network X Core Network						
Title: ೫	Alignment to RAN4 specifications for CPICH Ec/No						
Source: #	R-WG3						
Work item code: #	TEI REL-5 Date: # February 2002						
Category: #	B Release: # REL-5						
	Use one of the following categories:Use one of the following releases:F (essential correction)2A (corresponds to a correction in an earlier release)R96B (Addition of feature),R97C (Functional modification of feature)R98D (Editorial modification)R99D tealled explanations of the above categories canREL-4be found in 3GPP TR 21.900.REL-5						
Reason for change	 Reason for change: # In TS 25.133, the CPICH Ec/Io UE measurement has replaced the CPICH Ec/Normeasurement and its report mapping is defined as follows: values 0 to 49, the meaning being values from -24 to 0 dB with a granularity 0.5 dB. This has been aligned in TS 25.331 in the March01 version. In TS 25.423, this measurement is defined as [-30; 30] with the following Semantics Description: Unit dB, step 1 dB This needs to be aligned. 						
Summary of chang	R2: Corrections made on the new version of the specifications. Corrections to the Abnormal Conditions of the Radio Link Setup procedure. Criticality of the newly introduced IE is changed to Ignore. Protocol-Id for the newly introduced IE. R1: Minor corrections (removal of modification on § 9.2.2.32 as this is handled by CRs on R99/Rel 4).						
	R0: A new Enhanced Primary CPICH EC/No IE (defined as the UE measurement in TS 25.133) is introduced in the RADIO LINK SETUP REQUEST and RADIO LINK ADDITION REQUEST messages with the appropriate procedure text for the applicable procedures.						
	RNCs implementing this CR will be able to interwork with RNCs not implementing this CR although the determination of the Initial DL Tx Power by the DRNC will not be as precise as possible if one of those RNCs does not implement this CR.						
Consequences if not approved:	# If this CR is not approved, the specification will remain inconsistent with the other 3GPP specifications.						

 Clauses affected:
 #
 8.3.1.2, 8.3.1.4, 8.3.2.2, 8.3.2.4, 9.1.3.1, 9.1.6.1, 9.2.2.X, 9.3.3, 9.3.4, 9.3.6

Other specs affected:	¥	Other core specifications Test specifications O&M Specifications	¥
Other comments:	Ħ		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G_Specs/CRs.htm</u>. Below is a brief summary:

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

8.3.1 Radio Link Setup

8.3.1.1 General

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

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

8.3.1.2 Successful Operation



Figure 5: Radio Link Setup procedure: Successful Operation

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

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

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

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

Transport Channels Handling:

DCH(s):

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

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

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

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

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

The *Frame Handling Priority* IE defines the priority level that should be used by the DRNS to prioritise between different frames of the data frames of the DCHs in the downlink on the radio interface in congestion situations once the new RL(s) have been activated.

If the *DCH Specific Info* IE in the *DCH Information* IE includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:

- If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.
- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the downlink of the DCH.

DSCH(s):

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

[TDD - USCH(s)]:

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

Physical Channels Handling:

[FDD - Compressed Mode]:

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the DRNS shall use the information to activate the indicated Transmission Gap Pattern Sequences(s) in the new RL. The received *CM Configuration Change CFN* IE refers to latest passed CFN with that value. The DRNS shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the DRNS shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the DRNS shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]

- [FDD - For all other Transmission Gap Pattern Sequences included in the *Active Pattern Sequence Information* IE, the DRNS shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE for the Transmission Gap Pattern Sequence.] [FDD- If the *Downlink Compressed Mode Method* IE in one or more Transmission Gap Pattern Sequence is set to 'SF/2' in the RADIO LINK SETUP REQUEST message, the DRNS shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the RADIO LINK SETUP RESPONSE message indicating for each DL Channelisation Code whether the alternative scrambling code shall be used or not.]

[FDD - DL Code Information]:

[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*".]

General:

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

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

Radio Link Handling:

Diversity Combination Control:

[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 *Diversity Control Field* IE is set to "Must not", the DRNS shall not combine the RL with any other existing RL.]

[FDD - In the case of combining one or more RLs the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message with the *Diversity Indication* IE that the RL is combined with another RL RL for all RLs but the first 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 not be included for the first of the combined RLs, for which the *Transport Layer Address* IE and the *Binding ID* IE shall be included.]

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

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

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

[FDD-Transmit Diversity]:

[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.]

[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 Indicator* IE].

DL Power Control:

[FDD - If both the *Initial DL TX Power* IE and *Uplink SIR Target* IE are included 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 constrains 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. The DRNS shall not transmit with a higher power than indicated by the *Maximum DL TX Power IE* or lower than indicated by the *Minimum DL TX Power IE* on any DL DPCH of the RL except during compressed mode, when the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

[FDD - If both the *Initial DL TX Power* and the *Uplink SIR Target* IEs are not included in the RADIO LINK SETUP REQUEST message, then DRNC shall determine the initial Uplink SIR Target and include it in the *Uplink SIR Target* 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. If the *Enhanced Primary CPICH Ec/No* IE is present, the DRNC should use the indicated value when deciding the Initial DL Tx Power.]

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

[FDD – 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 on the Uu interface for the concerning RLS or Power Balancing is activated. No inner loop 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) and the power control procedure (see 8.3.7).]

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

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

[FDD - If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the DRNC shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the life time of the RL. If the *DPC Mode* IE is not present in the RADIO LINK SETUP REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]

Neighbouring Cell Handling:

If there are UMTS neighbouring cell(s) to the cell in which a Radio Link was established then:

- The DRNC shall include the *Neighbouring FDD Cell Information* IE and/or *Neighbouring TDD Cell Information* IE in the *Neighbouring UMTS Cell Information* IE for each neighbouring FDD cell and/or TDD cell respectively. In addition, if the information is available, the DRNC shall include the *Frame Offset* IE, *Primary CPICH Power* IE, *Cell Individual Offset* IE, *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE and *Closed Loop Mode2 Support Indicator* IE in the *Neighbouring FDD Cell Information* IE, and the *Frame Offset* IE, *Cell Individual Offset* IE, *DPCH Constant Value* IE and the *PCCPCH Power* IE in the *Neighbouring TDD Cell Information* IE.
- If a UMTS neighbouring cell is not controlled by the same DRNC, the DRNC shall also include the *CN PS Domain Identifier* IE and/or *CN CS Domain Identifier* IE which are the identifiers of the CN nodes connected to the RNC controlling the UMTS neighbouring cell.
- [FDD The DRNC shall include the *DPC Mode Change Support Indicator* IE if the DRNC is aware that the neighbouring cell supports DPC mode change.]

For the UMTS neighbouring cells which are controlled by the DRNC, the DRNC shall report in the RADIO LINK SETUP RESPONSE message the restriction state of those cells, otherwise *Restriction state indicator* IE may be absent. The DRNC shall include the *Restriction state indicator* IE for the neighbouring cells which are controlled by the DRNC in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information* LCR IE.

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

the GSM neighbouring cells. If available the DRNC shall include the *Cell Individual Offset* IE in the *Neighbouring GSM Cell Information* IE.

General:

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *SSDT Cell Identity for EDSCHPC* IE, the DRNS shall activate enhanced DSCH power control, if supported, using the *SSDT Cell Identity for EDSCHPC* IE and *SSDT Cell Identity Length* IE as well as *Enhanced DSCH PC* IE in accordance with ref. [10] subclause 5.2.2. If the RADIO LINK SETUP REQUEST message includes both *SSDT Cell Identity* IE and *SSDT Cell Identity for EDSCHPC* IE, then the DRNS shall ignore the *SSDT Cell Identity for EDSCHPC* IE.]

[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 DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link established in a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK SETUP RESPONSE message.]

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

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

[TDD – If the *D*-*RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include the *UARFCN* IE, the *Cell Parameter ID* IE,[3.84Mcps TDD - the *Sync Case* IE, the *SCH Time Slot* IE,] the *SCTD Indicator* IE, and the *PCCPCH Power* IE in the RADIO LINK SETUP RESPONSE message.]

[TDD - The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response* IE or *USCH Information Response* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the [3.84Mcps TDD - *Secondary CCPCH Info TDD* IE] [1.28Mcps TDD – *Secondary CCPCH Info TDD LCR* IE] in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response* IE or *USCH Information Response* IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

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

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE and the UTRAN access point position for each of the established RLs in the RADIO LINK SETUP RESPONSE message.

If the DRNS need to limit the user rate in the uplink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed UL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK SETUP RESPONSE message for this Radio Link.

If the DRNS need to limit the user rate in the downlink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed DL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK SETUP RESPONSE message for this Radio Link.

If the *Permanent NAS UE Identity* IE is included in the RADIO LINK SETUP REQUEST message, the DRNS shall store the information for the considered UE Context for the life-time of the UE Context.

If the RADIO LINK SETUP REQUEST message includes the *Permanent NAS UE Identity* IE and a *C-ID* IE corresponding to a cell reserved for operator use, the DRNC shall use this information to determine whether it can set up a Radio Link on this cell or not for the considered UE Context.

[FDD - Radio Link Set Handling]:

[FDD - The *First RLS Indicator* IE indicates if the concerning RL shall be considered part of the first RLS established towards this UE. The *First RLS Indicator* IE shall be used by the DRNS to determine the initial TPC pattern in the DL of the concerning RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.

[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 –The UL Uu synchronisation detection algorithm defined in ref. [10] subclause 4.3 shall for each of the established RL Set(s) use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set].

Response Message:

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 established.

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

8.3.1.3 Unsuccessful Operation



Figure 6: Radio Link Setup procedure: Unsuccessful Operation

In unsuccessful case (i.e. one or more RLs can not be established) 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 the RADIO LINK SETUP REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the *Permanent NAS UE Identity* IE is not present, the DRNC shall consider the procedure as failed and send the RADIO LINK SETUP FAILURE message.

Typical cause values are:

Radio Network Layer Causes:

- [FDD UL Scrambling Code Already in Use];
- DL Radio Resources not Available;

- UL Radio Resources not Available;
- [FDD Combining Resources not available];
- Combining not Supported
- Requested Configuration not Supported;
- Cell not Available;
- [FDD Requested Tx Diversity Mode not Supported];
- Power Level not Supported;
- Number of DL codes not supported;
- Number of UL codes not supported;
- Dedicated Transport Channel Type not Supported;
- DL Shared Channel Type not Supported;
- [TDD UL Shared Channel Type not Supported];
- [FDD UL Spreading Factor not Supported];
- [FDD DL Spreading Factor not Supported];
- CM not Supported;
- [FDD DPC mode change not Supported];
- Cell reserved for operator use.

Transport Layer Causes:

- Transport Resource Unavailable.

Miscellaneous Causes:

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

8.3.1.4 Abnormal Conditions

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Active Pattern Sequence Information* IE, but the *Transmission Gap Pattern Sequence Information* IE is not present, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

[FDD – If the RADIO LINK SETUP REQUEST message includes both the *Initial DL TX Power* IE and the *Primary CPICH Ec/No* IE or does not include either of these IEs, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

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

[FDD - If only the *Initial DL TX Power* IE or the *Uplink SIR Target* IE is included in the RADIO LINK SETUP REQUEST message, then DRNC shall regard the Radio Link Setup procedure as failed and shall respond with the RADIO LINK SETUP FAILURE message.]

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs, and if the DCHs in the *DCH Information* IE do not have the same *Transmission Time Interval* IE in the *Semi-static Transport Format Information* IE, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Enhanced Primary CPICH Ec/No* IE, but not the *Primary CPICH Ec/No* IE, then the DRNC shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

8.3.2 Radio Link Addition

8.3.2.1 General

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

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

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

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

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

8.3.2.2 Successful Operation



Figure 7: Radio Link Addition procedure: Successful Operation

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

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

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

Transport Channel Handling:

DSCH:

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

Physical Channels Handling:

[FDD-Compressed Mode]:

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Active Pattern Sequence Information* IE, the DRNS shall use the information to activate the indicated (all ongoing) Transmission Gap Pattern Sequence(s) in the new RL. The received *CM Configuration Change CFN* IE refers to the latest passed CFN with that value. The DRNS shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the DRNS shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the DRNS shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]

- [FDD - For all other Transmission Gap Pattern Sequences included in the *Active Pattern Sequence Information* IE, the DRNS shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE for the Transmission Gap Pattern Sequence.]

FDD - If the *Active Pattern Sequence Information* IE is not included, the DRNS shall not activate the ongoing compressed mode pattern in the new RLs, but the ongoing pattern in the existing RL shall be maintained.]

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

[FDD-DL Code Information]:

[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*".]

General:

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

Radio Link Handling:

Diversity Combination Control:

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. If the *Diversity Control Field* IE is set to "Must not", the DRNS shall not combine the RL with any other existing RL.

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

[FDD - In the case of combining one or more RLs being established by this procedure, the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message with the *Diversity Indication* IE that the RL is combined with another RL for all RLs but the first RL. In this case the Reference RL ID shall be included to indicate one of the other RLs being established by this procedure that the new RL is combined with. The Reference *RL ID* IE shall not be included for the first of the combined RLs, for which the *Transport Layer Address* IE and the *Binding ID* IE shall be included.]

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

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

If the DRNS need to limit the user rate in the uplink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed UL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK ADDITION RESPONSE message for this Radio Link.

If the DRNS need to limit the user rate in the downlink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed DL Rate* IE of the *Allowed Rate Information* IE in the *DCH*

Information Response IE for this DCH in the RADIO LINK ADDITION RESPONSE message for this Radio Link.

[FDD-Transmit Diversity]:

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

[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.]

[FDD – When *Transmit Diversity Indicator* IE is present the DRNS shall activate/deactivate the Transmit Diversity to each new Radio Link in accordance with the *Transmit Diversity Indicator* IE using the diversity mode of the existing Radio Link(s).]

DL Power Control:

[FDD - If the *Primary CPICH Ec/No* IE or the *Primary CPICH Ec/No* IE and the *Enhanced Primary CPICH* <u>*Ec/No* IE</u> measured by the UE is are included for an RL in the RADIO LINK ADDITION REQUEST message, the DRNS shall use this in the calculation of the Initial DL TX Power for this RL. If the *Primary CPICH Ec/No* IE is not present, the DRNS shall set the Initial DL TX Power based on the power relative to the Primary CPICH power used by the existing RLs.]

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

[FDD - The Initial DL TX Power shall be applied until UL synchronisation is achieved on the Uu interface for that RLS or Power Balancing is activated. No inner loop 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) and the power control procedure (see 8.3.7)].

[TDD – The Initial DL TX Power shall be applied until UL synchronisation is achieved on the Uu interface 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 - If the *DPC Mode* IE is present in the RADIO LINK ADDITION REQUEST message, the DRNC shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the life time of the RL. If the *DPC Mode* IE is not present in the RADIO LINK ADDITION REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]

The DRNC shall also provide the configured UL 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 DRNS shall not transmit with a higher power than indicated by the *Maximum DL TX Power IE* or lower than indicated by the *Minimum DL TX Power IE* or lower than indicated by the *Minimum DL TX Power IE* on any DL DPCH of the RL [FDD – except during compressed mode, when the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k].

DL Code Information:

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.

Neighbouring Cell Handling:

If there are UMTS neighbouring cell(s) to the cell in which a Radio Link was established then:

- The DRNC shall include the Neighbouring FDD Cell Information IE and/or Neighbouring TDD Cell Information IE in the Neighbouring UMTS Cell Information IE for each neighbouring FDD cell and/or TDD cell respectively. In addition, if the information is available, the DRNC shall include the Frame Offset IE, Primary CPICH Power IE, Cell Individual Offset IE, STTD Support Indicator IE, Closed Loop Mode1 Support Indicator IE and Closed Loop Mode2 Support Indicator IE in the Neighbouring FDD Cell Information IE, and the Frame Offset IE, Cell Individual Offset IE, DPCH Constant Value IE and the PCCPCH Power IE in the Neighbouring TDD Cell Information IE.
- If a UMTS neighbouring cell is not controlled by the same DRNC, the DRNC shall also include the *CN PS Domain Identifier* IE and/or *CN CS Domain Identifier* IE which are the identifiers of the CN nodes connected to the RNC controlling the UMTS neighbouring cell.
- [FDD The DRNC shall include the *DPC Mode Change Support Indicator* IE if the DRNC is aware that the neighbouring cell supports DPC mode change.]

For the UMTS neighbouring cells which are controlled by the DRNC, the DRNC shall report in the RADIO LINK SETUP RESPONSE message the restriction state of those cells, otherwise *Restriction state indicator* IE may be absent. The DRNC shall include the *Restriction state indicator* IE for the neighbouring cells which are controlled by the DRNC in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information* LCR IE.

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

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

General:

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

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE, and the UTRAN access point position for each of the added RLs in the RADIO LINK ADDITION RESPONSE message.

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

[FDD - If the UE has been allocated one or several DCH controlled by DRAC and if the DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link established in a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK ADDITION RESPONSE message.]

[TDD - The DRNC shall include the [3.84Mcps TDD - Secondary CCPCH Info TDD IE] [1.28Mcps TDD – Secondary CCPCH Info TDD LCR IE] in the RADIO LINK ADDITION RESPONSE message if at least one DSCH Information Response IE or USCH Information Response IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the [3.84Mcps TDD - Secondary CCPCH Info TDD IE] [1.28Mcps TDD – Secondary CCPCH Info TDD LCR IE] in the RADIO LINK ADDITION RESPONSE message if at least one [3.84Mcps TDD - DSCH Information Response IE] [1.28Mcps TDD – DSCH Information Response LCR IE] or USCH Information Response IE] [1.28Mcps TDD – DSCH Information Response LCR IE] or USCH Information Response IE] is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

If the *Permanent NAS UE Identity* IE is present in the RADIO LINK ADDITION REQUEST message, the DRNS shall store the information for the considered UE Context for the life-time of the UE Context.

If the RADIO LINK ADDITION REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the Permanent NAS UE Identity is available in the DRNC for the considered UE Context, the DRNC shall use this information to determine whether it can add the Radio Link on this cell or not.

[FDD-Radio Link Set Handling]:

[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.]

[FDD – After addition of the new RL(s), the UL Uu synchronisation detection algorithm defined in ref. [10] subclause 4.3 shall for each of the previously existing and newly established RL Set(s) use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set].

Response message:

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

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

8.3.2.3 Unsuccessful Operation



Figure 8: 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 compressed mode 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".]

Typical cause values are:

Radio Network Layer Causes:

- DL Radio Resources not Available;
- UL Radio Resources not Available;
- Combining Resources not Available;
- Combining not Supported

- Cell not Available;
- [FDD Requested Tx Diversity Mode not Supported];
- Power Level not Supported;
- CM not Supported;
- Reconfiguration CFN not Elapsed;
- Number of DL Codes not Supported;
- Number of UL codes not Supported;
- [FDD DPC mode change not Supported];
- Cell reserved for operator use.

Transport Layer Causes:

- Transport Resource Unavailable.

Miscellaneous Causes:

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

8.3.2.4 Abnormal Conditions

If the RADIO LINK ADDITION REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the Permanent NAS UE Identity is not available in the DRNC for the considered UE Context, the DRNC shall consider the procedure as failed for this particular Radio Link and send the RADIO LINK ADDITION FAILURE message.

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Transmission Gap Pattern Sequence Status* IEs in the *Active Pattern Sequence Information* IE and it does 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 establish a new RL without compressed mode when compressed mode is active for the existing RL(s) (as specified in subclause 8.3.2.2), but at least one new RL is to be established in a cell that has the same UARFCN (both UL and DL) as 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".]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Enhanced Primary CPICH Ec/No* IE, but not the *Primary CPICH Ec/No* IE, then the DRNC shall reject the procedure using the RADIO LINK ADDITION FAILURE message.]

9.1.3 RADIO LINK SETUP REQUEST

9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
			and reference	description		Criticality
Message Type	М		9.2.1.40		YES	reiect
Transaction ID	М		9.2.1.59		_	,
SRNC-Id	Μ		RNC-Id		YES	reject
			9.2.1.50			,
S-RNTI	Μ		9.2.1.53		YES	reject
D-RNTI	0		9.2.1.24		YES	reject
Allowed Queuing Time	0		9.2.1.2		YES	reject
UL DPCH Information		1			YES	reject
>UL Scrambling Code	Μ		9.2.2.53		—	
>Min UL Channelisation	Μ		9.2.2.25		-	
Code Length						
>Max Number of UL	C –		9.2.2.24		—	
DPDCHs	CodeLen					
>Puncture Limit	M		9.2.1.46	For the UL.	_	
>TFCS	M		TFCS for		-	
			the UL			
			9.2.1.63			
>UL DPCCH Slot Format	M		9.2.2.52		-	
>Uplink SIR Target	0				—	
Disconsitures de			9.2.1.69			
>Diversity mode	M		9.2.2.8		-	
>SSDT Cell Identity Length	0		9.2.2.41		-	
>S Field Length	0		9.2.2.36			
>DPC Mode	0	1	9.Z.Z.1ZA		IES VES	reject
	N/	1	TECS for		TES	reject
>1FC5	IVI		the DI		_	
			02163			
DI DPCH Slot Format	М		9.2.1.05			
>Number of DI	M		922264			
Channelisation Codes	101		0.2.2.20/1			
>TECI Signalling Mode	М		92246		_	
>TFCI Presence	C-		9.2.1.55		_	
	SlotFormat		0.200			
>Multiplexing Position	M		9.2.2.26		_	
>Power Offset Information		1			_	
>>PO1	Μ		Power	Power offset	_	
			Offset	for the TFCI		
			9.2.2.30	bits.		
>>PO2	Μ		Power	Power offset	-	
			Offset	for the TPC		
			9.2.2.30	bits.		
>>PO3	M		Power	Power offset	-	
			Offset	for the pilot		
			9.2.2.30	DItS.		
>FDD TPC Downlink Step	M		9.2.2.16		—	
Size	N.4		0.0.0.014			
>Limited Power Increase	IVI N4		9.2.2.21A		-	
>Inner Loop DL PC Status						raiact
	IVI				IES	reject
			0224A			
DSCH Information	0		9.2.2.4A		VES	reject
	5		FDD		163	iejeci
			Information			
			9.2.2.13A			
RL Information		1 <maxn< td=""><td></td><td></td><td>EACH</td><td>notify</td></maxn<>			EACH	notify
		oofRLs>			_	

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
			reference			
>RL ID	M		9.2.1.49		_	
>C-Id	Μ		9.2.1.6		_	
>First RLS Indicator	M		9.2.2.16A		-	
>Frame Offset	Μ		9.2.1.30		—	
>Chip Offset	Μ		9.2.2.1		_	
>Propagation Delay	0		9.2.2.33		_	
>Diversity Control Field	C –		9.2.1.20		_	
	NotFirstRL					
>Initial DL TX Power	0		DL Power		_	
			9.2.1.21A			
>Primary CPICH Ec/No	0		9.2.2.32		—	
>SSDT Cell Identity	0		9.2.2.40		-	
>Transmit Diversity Indicator	C –		9.2.2.48		_	
	Diversity					
	mode					
>SSDT Cell Identity for	C-		9.2.2.40A		YES	ignore
EDSCHPC	EDSCHPC					-
>Enhanced Primary CPICH	0		9.2.2.X		YES	ignore
Ec/No						
Transmission Gap Pattern	0		9.2.2.47A		YES	reject
Sequence Information						-
Active Pattern Sequence	0		9.2.2.A		YES	reject
Information						-
Permanent NAS UE Identity	0		9.2.1.73		YES	ignore

Condition	Explanation		
CodeLen	The IE shall be present if Min UL Channelisation Code length IE		
	equals to 4		
SlotFormat	The IE shall be present if the DL DPCH Slot Format IE is equal to		
	any of the values from 12 to 16.		
NotFirstRL	The IE shall be present if the RL is not the first one in the RL		
	Information IE.		
Diversity mode	The IE shall be present if Diversity Mode IE in UL DPCH Information		
	IE and is not equal to "none".		
EDSCHPC	This IE shall be present if Enhanced DSCH PC IE is present in the		
	DSCH Information IE.		

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

9.1.6 RADIO LINK ADDITION REQUEST

9.1.6.1 FDD Message

IE/Group Name	Presence	Range	IE type	Semantics description	Criticality	Assigned Criticality
			reference	description		Ontioanty
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	
Uplink SIR Target	М		Uplink SIR 9.2.1.69		YES	reject
RL Information		1 <maxn oofRLs- 1></maxn 			EACH	notify
>RL ID	М		9.2.1.49		-	
>C-Id	М		9.2.1.6		-	
>Frame Offset	Μ		9.2.1.30		_	
>Chip Offset	Μ		9.2.2.1		-	
>Diversity Control Field	М		9.2.1.20		_	
>Primary CPICH Ec/No	0		9.2.2.32		-	
>SSDT Cell Identity	0		9.2.2.40			
>Transmit Diversity Indicator	0		9.2.2.48		-	
>Enhanced Primary CPICH Ec/No	<u>0</u>		<u>9.2.2.X</u>		<u>YES</u>	ignore
Active Pattern Sequence Information	0		9.2.2A	Either all the already active Transmissio n Gap Sequence(s) are addressed (Transmissio n Gap Pattern sequence shall overlap with the existing one) or none of the transmission gap sequences is activated.	YES	reject
DPC Mode	0		9.2.2.12A		YES	reject
Permanent NAS UE Identity	0		9.2.1.73		YES	ignore

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

9.2.2.X Enhanced Primary CPICH Ec/No

Energy per PN chip divided by the total received power spectral density measured on the Primary CPICH by the UE.

IE/Group Name	Presence	<u>Range</u>	IE type and reference	Semantics description
Enhanced Primary CPICH Ec/No			<u>INTEGER</u> <u>(049)</u>	According to the mapping of the Primary CPICH Ec/lo UE measurement defined in ref. [23] and [24]

9.3.3 PDU Definitions

-- PDU definitions for RNSAP.

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

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

_ _

IMPORTS

Active-Pattern-Sequence-Information, AllocationRetentionPriority, AllowedQueuingTime, Allowed-Rate-Information, AlphaValue, BLER, SCTD-Indicator, BindingID, C-ID, C-RNTI, CCTrCH-ID, CFN, ClosedLoopModel-SupportIndicator, ClosedLoopMode2-SupportIndicator, Closedlooptimingadjustmentmode, CN-CS-DomainIdentifier, CN-PS-DomainIdentifier, CNDomainType, Cause, CellParameterID, ChipOffset, CommonMeasurementAccuracy, CommonMeasurementType, CommonMeasurementValue, CommonMeasurementValueInformation, CongestionCause, CriticalityDiagnostics, D-RNTI,

D-RNTI-ReleaseIndication, DCH-FDD-Information. DCH-ID. DCH-InformationResponse, DCH-TDD-Information, DL-DPCH-SlotFormat, DL-TimeslotISCP, DL-Power, DL-ScramblingCode, DL-Timeslot-Information, DL-TimeslotLCR-Information, DL-TimeSlot-ISCP-Info, DL-TimeSlot-ISCP-LCR-Information, DPC-Mode, DPC-Mode-Change-SupportIndicator, DPCH-ID, DRACControl, DRXCycleLengthCoefficient, DedicatedMeasurementType, DedicatedMeasurementValue, DedicatedMeasurementValueInformation, DiversityControlField, DiversityMode, DSCH-FDD-Information, DSCH-FDD-InformationResponse, DSCH-FlowControlInformation, DSCH-FlowControlItem, DSCH-TDD-Information, DSCH-ID, SchedulingPriorityIndicator, EnhancedDSCHPC, EnhancedDSCHPCCounter, EnhancedDSCHPCIndicator, EnhancedDSCHPCWnd, EnhancedDSCHPowerOffset, Enhanced-PrimaryCPICH-EcNo, FACH-FlowControlInformation, FDD-DCHs-to-Modify, FDD-DL-ChannelisationCodeNumber, FDD-DL-CodeInformation, FDD-S-CCPCH-Offset, FDD-TPC-DownlinkStepSize, FirstRLS-Indicator, FNReportingIndicator, FrameHandlingPriority, FrameOffset, GA-AccessPointPosition, GA-Cell, GA-CellAdditionalShapes, IMSI, InformationExchangeID,

InformationType, InnerLoopDLPCStatus, L3-Information. LimitedPowerIncrease, MaximumAllowedULTxPower, MaxNrDLPhysicalchannels, MaxNrOfUL-DPCHs, MaxNrTimeslots, MaxNrULPhysicalchannels, MeasurementFilterCoefficient, MeasurementID, MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftLCR, MinimumSpreadingFactor, MinUL-ChannelisationCodeLength, MultiplexingPosition, NeighbouringFDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation, Neighbouring-GSM-CellInformation, Neighbouring-UMTS-CellInformation, NrOfDLchannelisationcodes, PagingCause, PagingRecordType, PDSCHCodeMapping, PayloadCRC-PresenceIndicator, PCCPCH-Power, PC-Preamble, Permanent-NAS-UE-Identity, PowerAdjustmentType, PowerOffset, PrimaryCCPCH-RSCP, PrimaryCPICH-EcNo, PrimaryCPICH-Power, PrimaryScramblingCode, PropagationDelay, PunctureLimit, OE-Selector, RANAP-RelocationInformation, RB-Info, RL-ID, RL-Set-ID, RNC-ID, RepetitionLength, RepetitionPeriod, ReportCharacteristics, Received-total-wide-band-power, RequestedDataValue, RequestedDataValueInformation, RxTimingDeviationForTA, S-FieldLength, S-RNTI, SCH-TimeSlot,
SAI, SFN. Secondary-CCPCH-Info, Secondary-CCPCH-Info-TDD, Secondary-LCR-CCPCH-Info-TDD, SpecialBurstScheduling, SSDT-CellID, SSDT-CellID-Length, SSDT-Indication, SSDT-SupportIndicator, STTD-Indicator, STTD-SupportIndicator, AdjustmentPeriod, ScaledAdjustmentRatio, MaxAdjustmentStep, SecondaryCCPCH-SlotFormat, SRB-Delay, SyncCase, SynchronisationConfiguration, TDD-ChannelisationCode, TDD-DCHs-to-Modify, TDD-DL-Code-Information, TDD-DPCHOffset, TDD-PhysicalChannelOffset, TDD-TPC-DownlinkStepSize, TDD-ChannelisationCodeLCR, TDD-DL-Code-LCR-Information, TDD-UL-Code-Information, TDD-UL-Code-LCR-Information, TFCI-Coding, TFCI-Presence, TFCI-SignallingMode, TimeSlot, TimeSlotLCR, TimingAdvanceApplied, TOAWE, TOAWS, TransmitDiversityIndicator, TransportBearerID, TransportBearerRequestIndicator, TFCS, Transmission-Gap-Pattern-Sequence-Information, TransportFormatManagement, TransportFormatSet, TransportLayerAddress, TrCH-SrcStatisticsDescr, TSTD-Indicator, TSTD-Support-Indicator, UARFCN, UC-ID, UL-DPCCH-SlotFormat, UL-SIR, UL-FP-Mode,

UL-PhysCH-SF-Variation, UL-ScramblingCode, UL-Timeslot-Information, UL-TimeslotLCR-Information, UL-TimeSlot-ISCP-Info, UL-TimeSlot-ISCP-LCR-Info, URA-ID, URA-Information, USCH-ID, USCH-Information FROM RNSAP-IEs PrivateIE-Container{}, ProtocolExtensionContainer{}, ProtocolIE-ContainerList{}, ProtocolIE-ContainerPair{}, ProtocolIE-ContainerPairList{}, ProtocollE-Container{}, ProtocolIE-Single-Container{}, RNSAP-PRIVATE-IES, RNSAP-PROTOCOL-EXTENSION, RNSAP-PROTOCOL-IES, RNSAP-PROTOCOL-IES-PAIR FROM RNSAP-Containers maxNoOfDSCHs, maxNoOfUSCHs, maxNrOfCCTrCHs, maxNrOfDCHs, maxNrOfTS, maxNrOfDPCHs. maxNrOfRLs, maxNrOfRLSets, maxNrOfRLs-1, maxNrOfRLs-2, maxNrOfULTs, maxNrOfDLTs, maxNoOfDSCHsLCR, maxNoOfUSCHsLCR, maxNrOfCCTrCHsLCR, maxNrOfTsLCR, maxNrOfDLTsLCR, maxNrOfULTsLCR, maxNrOfDPCHsLCR, maxNrOfLCRTDDNeighboursPerRNC, maxNrOfMeasNCell, id-Active-Pattern-Sequence-Information, id-AdjustmentRatio, id-AllowedQueuingTime, id-BindingID, id-C-ID,

id-C-RNTI,

id-CFN, id-CFNReportingIndicator, id-CN-CS-DomainIdentifier. id-CN-PS-DomainIdentifier. id-Cause. id-CauseLevel-RL-AdditionFailureFDD, id-CauseLevel-RL-AdditionFailureTDD, id-CauseLevel-RL-ReconfFailure, id-CauseLevel-RL-SetupFailureFDD, id-CauseLevel-RL-SetupFailureTDD, id-CCTrCH-InformationItem-RL-FailureInd, id-CCTrCH-InformationItem-RL-RestoreInd. id-ClosedLoopModel-SupportIndicator, id-ClosedLoopMode2-SupportIndicator, id-CNOriginatedPage-PagingRgst, id-CommonMeasurementAccuracy, id-CommonMeasurementObjectType-CM-Rprt, id-CommonMeasurementObjectType-CM-Rgst, id-CommonMeasurementObjectType-CM-Rsp, id-CommonMeasurementType, id-CongestionCause, id-CriticalityDiagnostics, id-D-RNTI, id-D-RNTI-ReleaseIndication. id-DCHs-to-Add-FDD. id-DCHs-to-Add-TDD. id-DCH-DeleteList-RL-ReconfPrepFDD, id-DCH-DeleteList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfRqstFDD, id-DCH-DeleteList-RL-ReconfRgstTDD, id-DCH-FDD-Information, id-DCH-TDD-Information, id-FDD-DCHs-to-Modify, id-TDD-DCHs-to-Modify, id-DCH-InformationResponse, id-DCH-Rate-InformationItem-RL-CongestInd, 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-ReconfRgstTDD, 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-SetupRgstTDD, id-FDD-DL-CodeInformation,

id-DL-DPCH-Information-RL-ReconfPrepFDD, id-DL-DPCH-Information-RL-SetupRgstFDD, id-DL-DPCH-Information-RL-ReconfRqstFDD. id-DL-DPCH-InformationItem-PhyChReconfRgstTDD, id-DL-DPCH-InformationItem-RL-AdditionRspTDD, id-DL-DPCH-InformationItem-RL-SetupRspTDD, id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD, id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD, id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD, id-DL-Physical-Channel-Information-RL-SetupRqstTDD, id-DLReferencePower, id-DLReferencePowerList-DL-PC-Rqst, id-DL-ReferencePowerInformation-DL-PC-Rost. id-DRXCycleLengthCoefficient, id-DedicatedMeasurementObjectType-DM-Rprt, id-DedicatedMeasurementObjectType-DM-Rgst, id-DedicatedMeasurementObjectType-DM-Rsp, id-DedicatedMeasurementType, id-DPC-Mode, id-DPC-Mode-Change-SupportIndicator, id-DSCHs-to-Add-FDD, id-DSCHs-to-Add-TDD, id-DSCH-DeleteList-RL-ReconfPrepTDD, id-DSCH-Delete-RL-ReconfPrepFDD, id-DSCH-FDD-Information, id-DSCH-InformationListIE-RL-AdditionRspTDD, id-DSCH-InformationListIEs-RL-SetupRspTDD, id-DSCH-TDD-Information, id-DSCH-FDD-InformationResponse, id-DSCH-ModifyList-RL-ReconfPrepTDD, id-DSCH-Modify-RL-ReconfPrepFDD, id-DSCHsToBeAddedOrModified-FDD, id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD, id-EnhancedDSCHPC, id-EnhancedDSCHPCIndicator, id-Enhanced-PrimaryCPICH-EcNo, id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD, id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD, id-GA-Cell, id-GA-CellAdditionalShapes, id-IMSI, id-InformationExchangeID, id-InformationExchangeObjectType-InfEx-Rprt, id-InformationExchangeObjectType-InfEx-Rqst, id-InformationExchangeObjectType-InfEx-Rsp. id-InformationReportCharacteristics, id-InformationType, id-InnerLoopDLPCStatus, id-L3-Information, id-AdjustmentPeriod, id-MaxAdjustmentStep, id-MeasurementFilterCoefficient, id-MeasurementID,

id-PagingArea-PagingRgst, id-Permanent-NAS-UE-Identity, id-FACH-FlowControlInformation. id-PowerAdjustmentType, id-PropagationDelay, id-RANAP-RelocationInformation, id-RL-Information-PhyChReconfRqstFDD, id-RL-Information-PhyChReconfRgstTDD, id-RL-Information-RL-AdditionRqstFDD, id-RL-Information-RL-AdditionRqstTDD, id-RL-Information-RL-DeletionRgst, 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-RL-CongestInd, id-RL-InformationItem-DM-Rprt, id-RL-InformationItem-DM-Rgst, id-RL-InformationItem-DM-Rsp, id-RL-InformationItem-RL-PreemptRequiredInd, id-RL-InformationItem-RL-SetupRqstFDD, id-RL-InformationList-RL-CongestInd, id-RL-InformationList-RL-AdditionRgstFDD, id-RL-InformationList-RL-DeletionRgst, id-RL-InformationList-RL-PreemptRequiredInd, id-RL-InformationList-RL-ReconfPrepFDD, id-RL-InformationResponse-RL-AdditionRspTDD, id-RL-InformationResponse-RL-ReconfReadyTDD, id-RL-InformationResponse-RL-ReconfRspTDD, id-RL-InformationResponse-RL-SetupRspTDD, id-RL-InformationResponseItem-RL-AdditionRspFDD, id-RL-InformationResponseItem-RL-ReconfReadyFDD, id-RL-InformationResponseItem-RL-ReconfRspFDD, id-RL-InformationResponseItem-RL-SetupRspFDD, id-RL-InformationResponseList-RL-AdditionRspFDD, id-RL-InformationResponseList-RL-ReconfReadyFDD, id-RL-InformationResponseList-RL-ReconfRspFDD, id-RL-InformationResponseList-RL-SetupRspFDD, id-RL-ReconfigurationFailure-RL-ReconfFail, id-RL-Set-InformationItem-DM-Rprt, id-RL-Set-InformationItem-DM-Rgst, id-RL-Set-InformationItem-DM-Rsp, id-RL-Set-Information-RL-FailureInd, id-RL-Set-Information-RL-RestoreInd, id-ReportCharacteristics, id-Reporting-Object-RL-FailureInd, id-Reporing-Object-RL-RestoreInd, id-RxTimingDeviationForTA, id-S-RNTI, id-SAI, id-SFN, id-SFNReportingIndicator,

id-SRNC-ID. id-SSDT-CellIDforEDSCHPC. id-STTD-SupportIndicator. id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD, id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-timeSlot-ISCP, id-TransportBearerID, id-TransportBearerRequestIndicator, id-TransportLaverAddress, 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-PhyChReconfRgstTDD. id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD, id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD, id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-Information-RL-ReconfPrepFDD, id-UL-DPCH-Information-RL-ReconfRgstFDD, id-UL-DPCH-Information-RL-SetupRqstFDD, id-UL-DPCH-InformationItem-PhvChReconfRgstTDD, id-UL-DPCH-InformationItem-RL-AdditionRspTDD, id-UL-DPCH-InformationItem-RL-SetupRspTDD, id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD, id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD, id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD, id-UL-Physical-Channel-Information-RL-SetupRqstTDD, id-UL-SIRTarget, id-URA-Information, id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD, id-USCHs-to-Add, id-USCH-DeleteList-RL-ReconfPrepTDD, id-USCH-InformationListIE-RL-AdditionRspTDD, id-USCH-InformationListIEs-RL-SetupRspTDD, id-USCH-Information, id-USCH-ModifyList-RL-ReconfPrepTDD, id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRqstTDD, id-RL-LCR-InformationResponse-RL-SetupRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD,

id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD, id-USCH-LCR-InformationListIEs-RL-SetupRspTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRgstTDD, id-RL-LCR-InformationResponse-RL-AdditionRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD, id-DL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD, id-timeSlot-ISCP-LCR-List-DL-PC-Rqst-TDD, id-TSTD-Support-Indicator-RL-SetupRqstTDD FROM RNSAP-Constants; -- RADIO LINK SETUP REQUEST FDD RadioLinkSetupRequestFDD ::= SEOUENCE { {{RadioLinkSetupRequestFDD-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupRequestFDD-Extensions}} OPTIONAL. . . . RadioLinkSetupRequestFDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-SRNC-ID CRITICALITY reject TYPE RNC-ID PRESENCE mandatory } ID id-S-RNTI PRESENCE mandatory } CRITICALITY reject TYPE S-RNTI ID id-D-RNTI CRITICALITY reject TYPE D-RNTI PRESENCE optional ID id-AllowedOueuingTime 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-FDD-Information CRITICALITY reject TYPE DCH-FDD-Information PRESENCE mandatory } ID id-DSCH-FDD-Information CRITICALITY reject TYPE DSCH-FDD-Information PRESENCE optional } ID id-RL-Information-RL-SetupRqstFDD CRITICALITY notify TYPE RL-InformationList-RL-SetupRqstFDD PRESENCE mandatory }| CRITICALITY reject TYPE Transmission-Gap-Pattern-Sequence-Information ID id-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 {

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```
ul-ScramblingCode
                                     UL-ScramblingCode,
    minUL-ChannelisationCodeLength
                                            MinUL-ChannelisationCodeLength,
    maxNrOfUL-DPCHs
                                     MaxNrOfUL-DPCHs
                                                             OPTIONAL
    -- This IE shall be present 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,
    sSDT-CellIdLength
                                     SSDT-CellID-Length
                                                             OPTIONAL,
    s-FieldLength
                                    S-FieldLength
                                                             OPTIONAL,
                                     ProtocolExtensionContainer { {UL-DPCH-Information-RL-SetupRgstFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UL-DPCH-Information-RL-SetupRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DPC-Mode
                                    CRITICALITY reject
                                                             EXTENSION DPC-Mode PRESENCE optional },
    . . .
}
DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    + FCS
                                    TFCS,
    dl-DPCH-SlotFormat
                                    DL-DPCH-SlotFormat,
    nrOfDLchannelisationcodes
                                    NrOfDLchannelisationcodes,
    tFCI-SignallingMode
                                    TFCI-SignallingMode,
    t.FCI-Presence
                                    TFCI-Presence
                                                             OPTIONAL
    -- This IE shall be present if DL DPCH Slot Format IE is equal to any of the values from 12 to 16 --,
    multiplexingPosition
                                        MultiplexingPosition,
    powerOffsetInformation
                                        PowerOffsetInformation-RL-SetupRqstFDD,
    fdd-dl-TPC-DownlinkStepSize
                                     FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease
                                    LimitedPowerIncrease,
    innerLoopDLPCStatus
                                    InnerLoopDLPCStatus,
    iE-Extensions
                                     ProtocolExtensionContainer { {DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    . . .
DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
PowerOffsetInformation-RL-SetupRqstFDD ::= SEQUENCE {
        pol-ForTFCI-Bits
                                        PowerOffset,
       po2-ForTPC-Bits
                                        PowerOffset,
                                        PowerOffset,
       po3-ForPilotBits
                                        ProtocolExtensionContainer { { PowerOffsetInformation-RL-SetupRgstFDD-ExtIEs } } OPTIONAL,
        iE-Extensions
        . . .
PowerOffsetInformation-RL-SetupRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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```
RL-InformationList-RL-SetupRqstFDD
                                            ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF Protocolle-Single-Container { {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-TD
                                    RL-ID,
    C-TD
                                    C-ID,
    firstRLS-indicator
                                    FirstRLS-Indicator,
    frameOffset
                                    FrameOffset,
    chipOffset
                                    ChipOffset,
    propagationDelay
                                    PropagationDelay
                                                            OPTIONAL.
    diversityControlField
                                    DiversityControlField
                                                                OPTIONAL
    -- This IE shall be present if the RL is not the first one in the RL-InformationList-RL-SetupRgstFDD --,
    dl-InitialTX-Power
                                    DL-Power
                                                        OPTIONAL,
    primaryCPICH-EcNo
                                    PrimaryCPICH-EcNo
                                                                OPTIONAL,
    sSDT-CellID
                                    SSDT-CellID
                                                        OPTIONAL,
    transmitDiversityIndicator
                                    TransmitDiversityIndicator
                                                                    OPTIONAL,
    -- This IE shall be present unless Diversity Mode IE in UL DPCH Information group is "none"
                                    ProtocolExtensionContainer { {RL-InformationItem-RL-SetupRqstFDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
RL-InformationItem-RL-SetupRqstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-SSDT-CellIDforEDSCHPC CRITICALITY ignore EXTENSION SSDT-CellID
                                                                                     PRESENCE conditional },
    -- This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Information IE.
   { ID id-Enhanced-PrimaryCPICH-EcNo
                                                    CRITICALITY ignore
                                                                                                                          PRESENCE optional },
                                                                                 EXTENSION Enhanced-PrimaryCPICH-EcNo
    . . .
RadioLinkSetupRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::=
    { ID id-Permanent-NAS-UE-Identity
                                                    CRITICALITY ignore
                                                                                 EXTENSION Permanent-NAS-UE-Identity
                                                                                                                       PRESENCE optional },
    . . .
}
```

UNCHANGED TEXT IS OMITTED

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```
_ _
-- RADIO LINK ADDITION REQUEST FDD
_ _
    RadioLinkAdditionRequestFDD ::= SEQUENCE {
   protocolIEs
                                ProtocolIE-Container
                                                          {{RadioLinkAdditionRequestFDD-IEs}},
   protocolExtensions
                                ProtocolExtensionContainer {{RadioLinkAdditionRequestFDD-Extensions}}
                                                                                                                  OPTIONAL,
}
RadioLinkAdditionRequestFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-UL-SIRTarget
                                    CRITICALITY reject TYPE UL-SIR
                                                                                PRESENCE mandatory }
     ID id-RL-InformationList-RL-AdditionRgstFDD CRITICALITY notify TYPE RL-InformationList-RL-AdditionRgstFDD PRESENCE mandatory }
    { ID id-Active-Pattern-Sequence-Information CRITICALITY reject TYPE Active-Pattern-Sequence-Information PRESENCE optional },
   . . .
RL-InformationList-RL-AdditionRqstFDD
                                         ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocollE-Single-Container { {RL-Information-RL-
AdditionRqstFDD-IEs } }
RL-Information-RL-AdditionRqstFDD-IEs RNSAP-PROTOCOL-IES ::= {
   { ID id-RL-Information-RL-AdditionRgstFDD CRITICALITY notify TYPE RL-Information-RL-AdditionRgstFDD PRESENCE mandatory
RL-Information-RL-AdditionRgstFDD ::= SEQUENCE {
   rL-ID
                                 RL-ID,
   c-ID
                                C-ID,
   frameOffset
                                FrameOffset,
   chipOffset
                                 ChipOffset,
   diversityControlField
                                DiversityControlField,
   primaryCPICH-EcNo
                                PrimaryCPICH-EcNo
                                                       OPTIONAL,
   sSDT-CellID
                                 SSDT-CellID
                                                   OPTIONAL,
   transmitDiversityIndicator
                                TransmitDiversitvIndicator
                                                              OPTIONAL,
                                ProtocolExtensionContainer { {RL-Information-RL-AdditionRqstFDD-ExtIEs} } OPTIONAL,
   iE-Extensions
   . . .
RL-Information-RL-AdditionRgstFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
   { ID id-Enhanced-PrimaryCPICH-EcNo
                                               CRITICALITY ignore
                                                                         EXTENSION Enhanced-PrimaryCPICH-EcNo
                                                                                                               PRESENCE optional },
   . . .
RadioLinkAdditionRequestFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-DPC-Mode
                         CRITICALITY reject EXTENSION DPC-Mode
                                                                                PRESENCE optional }|
    { ID id-Permanent-NAS-UE-Identity
                                               CRITICALITY ignore
                                                                         EXTENSION Permanent-NAS-UE-Identity PRESENCE optional },
   . . .
```

UNCHANGED TEXT IS OMITTED

9.3.4 Information Element Definitions

-- Information Element Definitions

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

UNCHANGED TEXT IS OMITTED

-- E

UNCHANGED TEXT IS OMITTED

EnhancedDSCHPowerOffset ::= INTEGER (-15..0)

Enhanced-PrimaryCPICH-EcNo ::= INTEGER (0..49)

UNCHANGED TEXT IS OMITTED

9.3.6 **Constant Definitions** -- Constant definitions ****** RNSAP-Constants { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-Constants (4) DEFINITIONS AUTOMATIC TAGS ::= BEGIN IMPORTS ProcedureCode, ProtocolIE-ID FROM RNSAP-CommonDataTypes; ___ -- Elementary Procedures ProcedureCode ::= 0 id-commonTransportChannelResourcesInitialisation id-commonTransportChannelResourcesRelease ProcedureCode ::= 1ProcedureCode ::= 2 id-compressedModeCommand id-downlinkPowerControl ProcedureCode ::= 3 id-downlinkPowerTimeslotControl ProcedureCode ::= 4id-downlinkSignallingTransfer ProcedureCode ::= 5 id-errorIndication ProcedureCode ::= 6id-dedicatedMeasurementFailure ProcedureCode ::= 7 id-dedicatedMeasurementInitiation ProcedureCode ::= 8 id-dedicatedMeasurementReporting ProcedureCode ::= 9id-dedicatedMeasurementTermination ProcedureCode ::= 10 ProcedureCode ::= 11 id-paging id-physicalChannelReconfiguration ProcedureCode ::= 12 id-privateMessage ProcedureCode ::= 13 id-radioLinkAddition ProcedureCode ::= 14 id-radioLinkCongestion ProcedureCode ::= 34 id-radioLinkDeletion ProcedureCode ::= 15 id-radioLinkFailure ProcedureCode ::= 16 ProcedureCode ::= 17 id-radioLinkPreemption id-radioLinkRestoration ProcedureCode ::= 18 id-radioLinkSetup ProcedureCode ::= 19id-relocationCommit ProcedureCode ::= 20 id-synchronisedRadioLinkReconfigurationCancellation ProcedureCode ::= 21 id-synchronisedRadioLinkReconfigurationCommit ProcedureCode ::= 22 id-synchronisedRadioLinkReconfigurationPreparation ProcedureCode ::= 23

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id-unSynchronisedRadioLinkReconfiguration id-uplinkSignallingTransfer id-commonMeasurementFailure id-commonMeasurementInitiation id-commonMeasurementReporting id-commonMeasurementTermination id-informationExchangeFailure id-informationExchangeInitiation id-informationReporting id-informationExchangeTermination	on ProcedureCode ::= 24 ProcedureCode ::= 25 ProcedureCode ::= 26 ProcedureCode ::= 27 ProcedureCode ::= 27 ProcedureCode ::= 28 ProcedureCode ::= 30 ProcedureCode ::= 31 ProcedureCode ::= 32 ProcedureCode ::= 33
************************************	* * * * * * * * * * * * * * * * * * * *
Lists	
************************************	* * * * * * * * * * * * * * * * * * * *
maxCodeNumComp-1	INTEGER ::= 255
maxRateMatching	INTEGER ::= 256
maxNoCodeGroups	INTEGER ::= 256
maxNoOfDSCHs	INTEGER ::= 10
maxNoOfDSCHsLCR	INTEGER ::= 10
maxNoOfRB	INTEGER ::= 32
maxNoOfUSCHs	INTEGER ::= 10
maxNoOfUSCHsLCR	INTEGER ::= 10
maxNoTFCIGroups	INTEGER ::= 256
maxNrOfTFCs	INTEGER ::= 1024
maxNrOfTFs	INTEGER ::= 32
maxNrOfCCTrCHs	INTEGER ::= 16
maxNrOfCCTrCHsLCR	INTEGER ::= 16
maxNrOfDCHs	INTEGER := 128
maxNrOfDL-Codes	INTEGER ::= 8
maxNrOfDPCHs	INTEGER ::= 240
maxNrOfDPCHsLCR	INTEGER ::= 240
maxNrOfErrors	INTEGER ::= 256
maxNrOfMACcshSDU-Length	INTEGER ::= 16
maxNrOfPoints	INTEGER := 15
maxNrOfRLs	INTEGER ::= 16
maxNrOfRLSets	INTEGER ::= maxNrOfRLs
maxNrOfRLs-1	INTEGER ::= 15 maxNrOfRLs - 1
maxNrOfRLs-2	INTEGER ::= 14 maxNrOfRLs - 2
maxNrOfULTs	INTEGER ::= 15
maxNrOfULTsLCR	INTEGER ::= 6
maxNrOiDLTs	INTEGER ::= 15
maxNrOfDLTsLCR	INTEGER ::= 6
maxRNCinURA-1	INTEGER ::= 15
maxTTI-count	INTEGER ::= 4
maxCTFC	INTEGER ::= 16/7/215
maxNrOINelgnbouringRNCs	INIEGER := IU
maxNrOIFDDNeighboursPerKNC	INTEGER ::= 256
maxNrOLGSMNelgnDoursPerkNC	INIEGER ··= 250
maxNIOLIDDNEIGIDOULSPELKNC	INIEGER ··= 200
MAANIULFACHS	TNIEGER ··= 0

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maxNrOfLCRTDDNeighboursPerRNC maxFACHCountPlus1 maxIBSEG maxNrOfSCCPCHs	INTEGER ::= 256 INTEGER ::= 10 INTEGER ::= 16 INTEGER ::= 8			
maxTFCI1Combs	INTEGER ::= 512			
maxTFCI2Combs	INTEGER ::= 1024			
maxTFCI2Combs-1	INTEGER ::= 1023			
maxTGPS	INTEGER ::= 6			
maxNrOfTS	INTEGER ::= 15			
maxNrOfLevels	INTEGER ::= 256			
maxNrOfTsLCR	INTEGER ::= 6			
maxNoSat	INTEGER ::= 16			
maxNoGPSTypes	INTEGER ::= 8			
maxNrOfMeasNCell	INTEGER ::= 96			
maxNrOfMeasNCell-1	INTEGER ::= 95 maxNrOfMeasNCell	- 1		
***********************************	******			
id-AllowedQueuingTime		ProtocollE-ID	::=	4
id-Allowed-Rate-Information		ProtocollE-ID	::=	42
id-BindingID		ProtocollE-ID	::=	5
		ProtocollE-ID	::=	6
Id-C-RNTI		ProtocollE-ID	=	/
Id-CFN id CN CC Demointdentifier		ProtocollE-ID	=	8
id CN-CS-DomainIdentiller		ProtocoliE-ID	••=	9
id-CN-PS-Domainidentiller		ProtocollE-ID	::=	10
1d-Cause		ProtocollE-ID	=	11
id-CriticalityDiagnostics		ProtocollE-ID	=	20
10-D-RNTI		ProtocollE-ID	::=	21
1d-D-RNTI-ReleaseIndication		ProtocollE-ID	::=	22
		ProtocoliE-ID	••=	20
10-DCHS-TO-A00-TDD		ProtocollE-ID	::=	27
id DCH-DeleteList-RL-ReconfPrepFDD		ProtocollE-ID	=	30
id DCH-DeleteList-RL-RecomPrepidd		ProtocollE-ID	=	31 22
id DCH-DeleteList-RL-RecontrastFDD		ProtocollE-ID	=	3∠ 22
id DCH-DeleteList-RL-Recontrastion		ProtocollE-ID	=	33
id DCH-FDD-INIOrMation		ProtocollE-ID	=	34
id-DCH-TDD-Information		ProtocollE-ID	::=	35
Id-FDD-DCHS-to-Modily		ProtocollE-ID	::=	39
1d-TDD-DCHS-to-Modily		ProtocollE-ID	::=	40
id-DCH-InformationResponse		ProtocollE-ID	::=	43
id DL Commention Item-RL-Congesti		ProtocollE-ID	=	38
id DL COIFCH-InformationAdditem-RL-Reco		ProtocollE-ID	••=	44
id DL COTTON InformationDeletation DL	LREAUYIDD	ProtocollE-ID	. : =	45 46
id_DI_CCTrCH_InformationIton DI_Cotum	econirgsciuu at TDD	ProtocollE-ID	=	40 17
id_DI_CCTTCH-INFORmationLightE_DbyChDog		ProtocollE ID	=	4/ /0
id_DL_CCTrCH_InformationListIE_PHyCHRec		ProtocoliE-ID	=	±0 ⊿0
id_DI_CCTICH_INFORMATIONISCIE_RU-AQQIC	עמשמים מסקראפיזוויסד	Protocolite-ID	=	ユブ
IN-DR-COILCH-INFOLWACTOUPTSCIR-KP-Secub	rahinn	FIOLOCOTTR-ID	••=	50

id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD id-DL-CCTrCH-InformationList-RL-SetupRgstTDD id-FDD-DL-CodeInformation id-DL-DPCH-Information-RL-ReconfPrepFDD id-DL-DPCH-Information-RL-SetupRgstFDD id-DL-DPCH-Information-RL-ReconfRqstFDD id-DL-DPCH-InformationItem-PhvChReconfRgstTDD id-DL-DPCH-InformationItem-RL-AdditionRspTDD id-DL-DPCH-InformationItem-RL-SetupRspTDD id-DLReferencePower id-DLReferencePowerList-DL-PC-Rqst id-DL-ReferencePowerInformation-DL-PC-Rost id-DPC-Mode id-DRXCycleLengthCoefficient id-DedicatedMeasurementObjectType-DM-Rprt id-DedicatedMeasurementObjectType-DM-Rqst id-DedicatedMeasurementObjectType-DM-Rsp id-DedicatedMeasurementType id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD id-Guaranteed-Rate-Information id-IMSI id-L3-Information id-AdjustmentPeriod id-MaxAdjustmentStep id-MeasurementFilterCoefficient id-MessageStructure id-MeasurementID id-Neighbouring-GSM-CellInformation id-Neighbouring-UMTS-CellInformationItem id-PagingArea-PagingRqst id-FACH-FlowControlInformation id-Permanent-NAS-UE-Identity id-PowerAdjustmentType id-RANAP-RelocationInformation id-RL-Information-PhyChReconfRqstFDD id-RL-Information-PhyChReconfRqstTDD id-RL-Information-RL-AdditionRgstFDD id-RL-Information-RL-AdditionRgstTDD 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-RL-CongestInd id-RL-InformationItem-DM-Rprt id-RL-InformationItem-DM-Rgst id-RL-InformationItem-DM-Rsp id-RL-InformationItem-RL-PreemptRequiredInd id-RL-InformationItem-RL-SetupRqstFDD id-RL-InformationList-RL-CongestInd

ProtocolIE-ID ::= 51 ProtocolIE-ID ::= 52 ProtocolIE-ID ::= 53 ProtocolIE-ID ::= 54 ProtocolIE-ID ::= 59 ProtocolIE-ID ::= 60 ProtocolIE-ID ::= 61 ProtocolIE-ID ::= 62 ProtocolIE-ID ::= 63 ProtocolIE-ID ::= 64 ProtocolIE-ID ::= 67 ProtocolIE-ID ::= 68 ProtocolIE-ID ::= 69 ProtocolIE-ID ::= 12 ProtocolIE-ID ::= 70 ProtocolIE-ID ::= 71 ProtocolIE-ID ::= 72 ProtocolIE-ID ::= 73 ProtocolIE-ID ::= 74 ProtocolIE-ID ::= 82 ProtocolIE-ID ::= 83 ProtocolIE-ID ::= 41 ProtocolIE-ID ::= 84 ProtocolIE-ID ::= 85 ProtocolIE-ID ::= 90 ProtocolIE-ID ::= 91 ProtocolIE-ID ::= 92 ProtocolIE-ID ::= 57 ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 95 ProtocolIE-ID ::= 102 ProtocolIE-ID ::= 103 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 109 ProtocolIE-ID ::= 110 ProtocolIE-ID ::= 111 ProtocolIE-ID ::= 112 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 114 ProtocolTE-TD ::= 115ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 118 ProtocolIE-ID ::= 119 ProtocolIE-ID ::= 55 ProtocolIE-ID ::= 120 ProtocolIE-ID ::= 121 ProtocolIE-ID ::= 122 ProtocolIE-ID ::= 2 ProtocolIE-ID ::= 123 ProtocolIE-ID ::= 56

id-RL-InformationList-RL-AdditionRqstFDD id-RL-InformationList-RL-DeletionRgst id-RL-InformationList-RL-PreemptRequiredInd id-RL-InformationList-RL-ReconfPrepFDD id-RL-InformationResponse-RL-AdditionRspTDD id-RL-InformationResponse-RL-ReconfReadvTDD id-RL-InformationResponse-RL-SetupRspTDD id-RL-InformationResponseItem-RL-AdditionRspFDD id-RL-InformationResponseItem-RL-ReconfReadyFDD id-RL-InformationResponseItem-RL-ReconfRspFDD id-RL-InformationResponseItem-RL-SetupRspFDD id-RL-InformationResponseList-RL-AdditionRspFDD id-RL-InformationResponseList-RL-ReconfReadyFDD id-RL-InformationResponseList-RL-ReconfRspFDD id-RL-InformationResponse-RL-ReconfRspTDD id-RL-InformationResponseList-RL-SetupRspFDD id-RL-ReconfigurationFailure-RL-ReconfFail id-RL-Set-InformationItem-DM-Rprt id-RL-Set-InformationItem-DM-Rgst id-RL-Set-InformationItem-DM-Rsp id-RL-Set-Information-RL-FailureInd id-RL-Set-Information-RL-RestoreInd id-ReportCharacteristics id-Reporting-Object-RL-FailureInd id-Reporting-Object-RL-RestoreInd id-S-RNTI id-SAI id-SRNC-ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD id-TransportBearerID id-TransportBearerRequestIndicator id-TransportLaverAddress id-TypeOfError id-UC-ID id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD id-UL-CCTrCH-InformationList-RL-SetupRgstTDD id-UL-CCTrCH-InformationListIE-PhyChReconfRgstTDD id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD id-UL-CCTrCH-InformationListIE-RL-ReconfReadvTDD id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD id-UL-DPCH-Information-RL-ReconfPrepFDD id-UL-DPCH-Information-RL-ReconfRgstFDD id-UL-DPCH-Information-RL-SetupRqstFDD id-UL-DPCH-InformationItem-PhyChReconfRgstTDD id-UL-DPCH-InformationItem-RL-AdditionRspTDD id-UL-DPCH-InformationItem-RL-SetupRspTDD id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD id-UL-SIRTarget id-URA-Information id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD ProtocolIE-ID ::= 124 ProtocolIE-ID ::= 125 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 126 ProtocolIE-ID ::= 127 ProtocolIE-ID ::= 128 ProtocolIE-ID ::= 129 ProtocolIE-ID ::= 130 ProtocolIE-ID ::= 131 ProtocolIE-ID ::= 132 ProtocolIE-ID ::= 133 ProtocolIE-ID ::= 134 ProtocolIE-ID ::= 135 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 28 ProtocolIE-ID ::= 137 ProtocolIE-ID ::= 141 ProtocolIE-ID ::= 143 ProtocolIE-ID ::= 144 ProtocolIE-ID ::= 145 ProtocolIE-ID ::= 146 ProtocolIE-ID ::= 147 ProtocolIE-ID ::= 152 ProtocolIE-ID ::= 153 ProtocolIE-ID ::= 154 ProtocolIE-ID ::= 155 ProtocolIE-ID ::= 156 ProtocolIE-ID ::= 157 ProtocolIE-ID ::= 159 ProtocolIE-ID ::= 160 ProtocolIE-ID ::= 163 ProtocolIE-ID ::= 164 ProtocolIE-ID ::= 165 ProtocolIE-ID ::= 140 ProtocolIE-ID ::= 166 ProtocolIE-ID ::= 167 ProtocolIE-ID ::= 169 ProtocolIE-ID ::= 171 ProtocolIE-ID ::= 172 ProtocolIE-ID ::= 173 ProtocolIE-ID ::= 174 ProtocolTE-TD ::= 175ProtocolIE-ID ::= 176 ProtocolIE-ID ::= 177 ProtocolIE-ID ::= 178 ProtocolIE-ID ::= 179 ProtocolIE-ID ::= 180 ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 182 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 188

id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD id-Active-Pattern-Sequence-Information id-AdjustmentRatio id-CauseLevel-RL-AdditionFailureFDD id-CauseLevel-RL-AdditionFailureTDD id-CauseLevel-RL-ReconfFailure id-CauseLevel-RL-SetupFailureFDD id-CauseLevel-RL-SetupFailureTDD id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadvTDD id-DL-DPCH-InformationModifvListIE-RL-ReconfReadvTDD id-DSCHs-to-Add-TDD id-DSCHs-to-Add-FDD id-DSCH-DeleteList-RL-ReconfPrepTDD id-DSCH-Delete-RL-ReconfPrepFDD id-DSCH-FDD-Information id-DSCH-InformationListIE-RL-AdditionRspTDD id-DSCH-InformationListIEs-RL-SetupRspTDD id-DSCH-TDD-Information id-DSCH-FDD-InformationResponse id-DSCH-Information-RL-SetupRgstFDD id-DSCH-ModifyList-RL-ReconfPrepTDD id-DSCH-Modify-RL-ReconfPrepFDD id-DSCHsToBeAddedOrModified-FDD id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD id-EnhancedDSCHPC id-EnhancedDSCHPCIndicator id-GA-Cell id-GA-CellAdditionalShapes id-SSDT-CellIDforEDSCHPC id-Transmission-Gap-Pattern-Sequence-Information id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD id-USCHs-to-Add id-USCH-DeleteList-RL-ReconfPrepTDD id-USCH-InformationListIE-RL-AdditionRspTDD id-USCH-InformationListIEs-RL-SetupRspTDD

ProtocolIE-ID ::= 189 ProtocolIE-ID ::= 190 ProtocolIE-ID ::= 193 ProtocolIE-ID ::= 194 ProtocolIE-ID ::= 197 ProtocolIE-ID ::= 198 ProtocolIE-ID ::= 199 ProtocolIE-ID ::= 200 ProtocolIE-ID ::= 201 ProtocolIE-ID ::= 205 ProtocolIE-ID ::= 206 ProtocolIE-ID ::= 207 ProtocolIE-ID ::= 208 ProtocolIE-ID ::= 209 ProtocolIE-ID ::= 210 ProtocolIE-ID ::= 212 ProtocolIE-ID ::= 213 ProtocolIE-ID ::= 214 ProtocolIE-ID ::= 215 ProtocolIE-ID ::= 216 ProtocolIE-ID ::= 217 ProtocolIE-ID ::= 218 ProtocolIE-ID ::= 219 ProtocolIE-ID ::= 220 ProtocolIE-ID ::= 221 ProtocolIE-ID ::= 222 ProtocolIE-ID ::= 223 ProtocolIE-ID ::= 226 ProtocolIE-ID ::= 227 ProtocolIE-ID ::= 228 ProtocolIE-ID ::= 229 ProtocolIE-ID ::= 230 ProtocolIE-ID ::= 29 ProtocolIE-ID ::= 34 ProtocolIE-ID ::= 232 ProtocolIE-ID ::= 3 ProtocolIE-ID ::= 35 ProtocolIE-ID ::= 255 ProtocolIE-ID ::= 256 ProtocolIE-ID ::= 257 ProtocolIE-ID ::= 258 ProtocolTE-TD := 259ProtocolIE-ID ::= 260 ProtocolIE-ID ::= 261 ProtocolIE-ID ::= 262 ProtocolIE-ID ::= 263 ProtocolIE-ID ::= 264 ProtocolIE-ID ::= 265 ProtocolIE-ID ::= 266 ProtocolIE-ID ::= 267 ProtocolIE-ID ::= 268 ProtocolIE-ID ::= 269 ProtocolIE-ID ::= 270

id-USCH-Information id-USCH-ModifyList-RL-ReconfPrepTDD id-USCHToBeAddedOrModifiedList-RL-ReconfReadvTDD id-DL-Physical-Channel-Information-RL-SetupRqstTDD id-UL-Physical-Channel-Information-RL-SetupRgstTDD id-ClosedLoopModel-SupportIndicator id-ClosedLoopMode2-SupportIndicator id-STTD-SupportIndicator id-CFNReportingIndicator id-CNOriginatedPage-PagingRqst id-InnerLoopDLPCStatus id-PropagationDelay id-RxTimingDeviationForTA id-timeSlot-ISCP id-CCTrCH-InformationItem-RL-FailureInd id-CCTrCH-InformationItem-RL-RestoreInd id-CommonMeasurementAccuracy id-CommonMeasurementObjectType-CM-Rprt id-CommonMeasurementObjectType-CM-Rgst id-CommonMeasurementObjectType-CM-Rsp id-CommonMeasurementType id-CongestionCause id-SFN id-SFNReportingIndicator id-InformationExchangeID id-InformationExchangeObjectType-InfEx-Rprt id-InformationExchangeObjectType-InfEx-Rgst id-InformationExchangeObjectType-InfEx-Rsp id-InformationReportCharacteristics id-InformationType id-neighbouring-LCR-TDD-CellInformation id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRqstTDD id-RL-LCR-InformationResponse-RL-SetupRspTDD id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD id-USCH-LCR-InformationListIEs-RL-SetupRspTDD id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRqstTDD id-RL-LCR-InformationResponse-RL-AdditionRspTDD id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD id-UL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD id-DL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD

ProtocolIE-ID ::= 271 ProtocolIE-ID ::= 272 ProtocolIE-ID ::= 273 ProtocolIE-ID ::= 274 ProtocolIE-ID ::= 275 ProtocolIE-ID ::= 276 ProtocolIE-ID ::= 277 ProtocolIE-ID ::= 279 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24 ProtocolIE-ID ::= 25 ProtocolIE-ID ::= 36 ProtocolIE-ID ::= 37 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 280 ProtocolIE-ID ::= 281 ProtocolIE-ID ::= 282 ProtocolIE-ID ::= 283 ProtocolIE-ID ::= 284 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 285 ProtocolIE-ID ::= 286 ProtocolIE-ID ::= 287 ProtocolIE-ID ::= 288 ProtocolIE-ID ::= 289 ProtocolIE-ID ::= 290 ProtocolIE-ID ::= 291 ProtocolIE-ID ::= 292 ProtocolIE-ID ::= 58 ProtocolIE-ID ::= 65 ProtocolIE-ID ::= 66 ProtocolIE-ID ::= 75 ProtocolIE-ID ::= 76 ProtocolIE-ID ::= 77 ProtocolIE-ID ::= 78 ProtocolIE-ID ::= 79 ProtocolIE-ID ::= 80 ProtocolIE-ID ::= 81 ProtocolIE-ID ::= 86 ProtocolIE-ID ::= 87 ProtocolIE-ID ::= 88 ProtocolIE-ID ::= 89 ProtocolIE-ID ::= 94 ProtocolIE-ID ::= 96 ProtocolIE-ID ::= 97 ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 101 ProtocolIE-ID ::= 104 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 106

id-timeSlot-ISCP-LCR-List-DL-PC-Rqst-TDD	ProtocolIE-ID ::= 138
id-TSTD-Support-Indicator-RL-SetupRqstTDD	ProtocolIE-ID ::= 139
id-RestrictionStateIndicator	ProtocolIE-ID ::= 142
id-Load-Value	ProtocolIE-ID ::= 233
id-Load-Value-IncrDecrThres	ProtocolIE-ID ::= 234
id-OnModification	ProtocolIE-ID ::= 235
id-Received-Total-Wideband-Power-Value	ProtocolIE-ID ::= 236
id-Received-Total-Wideband-Power-Value-IncrDecrThres	ProtocolIE-ID ::= 237
id-SFNSFNMeasurementThresholdInformation	ProtocolIE-ID ::= 238
id-Transmitted-Carrier-Power-Value	ProtocolIE-ID ::= 239
id-Transmitted-Carrier-Power-Value-IncrDecrThres	ProtocolIE-ID ::= 240
id-TUTRANGPSMeasurementThresholdInformation	ProtocolIE-ID ::= 241
id-UL-Timeslot-ISCP-Value	ProtocolIE-ID ::= 242
id-UL-Timeslot-ISCP-Value-IncrDecrThres	ProtocolIE-ID ::= 243
id-Rx-Timing-Deviation-Value-LCR	ProtocolIE-ID ::= 293
id-DPC-Mode-Change-SupportIndicator	ProtocolIE-ID ::= 19
id-Enhanced-PrimaryCPICH-EcNo	ProtocolIE-ID ::= 224

TSG-RAN WG 3 meeting #27 Orlando, USA, 18th – 22th February 2002

TSGR3#27(02)0408

Orlando, USA, 1	8" – 22" February 2002
	CR-Form-v4
ж	25.423 CR 558 # rev - # Current version: 4.3.0 #
For <u>HELP</u> on u	sing this form, see bottom of this page or look at the pop-up text over the \Re symbols.
Proposed change a	affects: # (U)SIM ME/UE Radio Access Network X Core Network
Title: #	RNSAP Reset procedure
Source: ೫	R-WG3
Work item code: ¥	TEI Date: # February 2002
Category: ₩	BRelease: %Rel-5Use one of the following categories:Use one of the following releases:F (correction)2A (corresponds to a correction in an earlier release)R96B (addition of feature),R97C (functional modification of feature)R98D (editorial modification)R99D (editorial modification)R99D tailed explanations of the above categories canREL-4be found in 3GPP TR 21.900.REL-5
Deecon for chonge	Changes compared to the CD presented at DAN2#26 (In principle agreed)
Reason for change	ProtocollE-lds allocated.
	Changes compared to the CR presented at RAN3#24:
	- References made to Annex X.2 DRNC actions at UE context termination.
	- The criticality of the CHOICE <i>Reset Indicator</i> is changed to "reject".
	RAN3#24:
	In some abnormal situation, there is a need to remove one or more UE contexts in the SRNC or DRNC. This CR proposes a Reset procedure to be introduced in RNSAP. For further reasoning, please see the Tdoc R3-012814.
Summary of chang	e: # This CR introduces the Reset procedure.

Impact analysis:

Impact assessment towards the previous version of the specification (same release): No previous version.

Compatibility Analysis towards previous release:

No impact.

Consequences if#In order to recover from failure situation, large scale recovery actions may benot approved:needed that may affected many other UEs which were not affected by the failure.

Clauses affected:	4.1 , 7, 8.1, 8.5.x, 9.1.xx, 9.1.xx, 9.2.1.40, 9.3.2, 9.3.3 and 9.3.6
Other specs affected:	% Other core specifications % Test specifications 0&M Specifications
Other comments:	¥

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G_Specs/CRs.htm</u>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

4.1 Procedure Specification Principles

The principle for specifying the procedure logic is to specify the functional behaviour of the DRNC/CRNC exactly and completely. The SRNC functional behaviour is left unspecified. The Physical Channel Reconfiguration procedure <u>and</u> <u>Reset procedure areis</u> an exception from this principle.

The following specification principles have been applied for the procedure text in subclause 8:

- The procedure text discriminates between:

1) Functionality which "shall" be executed

The procedure text indicates that the receiving node "shall" perform a certain function Y under a certain condition. If the receiving node supports procedure X but cannot perform functionality Y requested in the REQUEST message of a Class 1 EP, the receiving node shall respond with the message used to report unsuccessful outcome for this procedure, containing an appropriate cause value.

2) Functionality which "shall, if supported" be executed

The procedure text indicates that the receiving node "shall, if supported," perform a certain function Y under a certain condition. If the receiving node supports procedure X, but does not support functionality Y, the receiving node shall proceed with the execution of the EP, possibly informing the requesting node about the not supported functionality.

- Any required inclusion of an optional IE in a response message is explicitly indicated in the procedure text. If the procedure text does not explicitly indicate that an optional IE shall be included in a response message, the optional IE shall not be included.

7 Functions of RNSAP

The RNSAP protocol provides the following functions:

- Radio Link Management. This function allows the SRNC to manage radio links using dedicated resources in a DRNS;
- Physical Channel Reconfiguration. This function allows the DRNC to reallocate the physical channel resources for a Radio Link;
- Radio Link Supervision. This function allows the DRNC to report failures and restorations of a Radio Link;
- Compressed Mode Control [FDD]. This function allows the SRNC to control the usage of compressed mode within a DRNS;
- Measurements on Dedicated Resources. This function allows the SRNC to initiate measurements on dedicated resources in the DRNS. The function also allows the DRNC to report the result of the measurements;
- DL Power Drifting Correction [FDD]. This function allows the SRNC to adjust the DL power level of one or more Radio Links in order to avoid DL power drifting between the Radio Links;
- DCH Rate Control. This function allows the DRNC to limit the rate of each DCH configured for the Radio Link(s) of a UE in order to avoid congestion situations in a cell;
- CCCH Signalling Transfer. This function allows the SRNC and DRNC to pass information between the UE and the SRNC on a CCCH controlled by the DRNS;
- Paging. This function allows the SRNC to page a UE in a URA or a cell in the DRNS;
- Common Transport Channel Resources Management. This function allows the SRNC to utilise Common Transport Channel Resources within the DRNS (excluding DSCH resources for FDD);
- Relocation Execution. This function allows the SRNC to finalise a Relocation previously prepared via other interfaces;
- Reporting of General Error Situations. This function allows reporting of general error situations, for which function specific error messages have not been defined.
- DL Power Timeslot Correction [TDD]. This function enables the DRNS to apply an individual offset to the transmission power in each timeslot according to the downlink interference level at the UE.
- Measurements on Common Resources. This function allows an RNC to request from another RNC to initiate measurements on Common Resources. The function also allows the requested RNC to report the result of the measurements.
- Information Exchange. This function allows an RNC to request from another RNC the transfer of information. The function also allows the requested RNC to report the requested information.
- Resetting the Iur. This function is used to completely or partly reset the Iur interface.

The mapping between the above functions and RNSAP elementary procedures is shown in the Table 1.

Function	Elementary Procedure(s)
Radio Link Management	a) Radio Link Setup
	b) Radio Link Addition
	c) Radio Link Deletion
	d) Unsynchronised Radio Link Reconfiguration
	e) Synchronised Radio Link Reconfiguration
	Preparation
	f) Synchronised Radio Link Reconfiguration
	Commit
	g) Synchronised Radio Link Reconfiguration
	Cancellation
	h) Radio Link Pre-emption
Physical Channel Reconfiguration	Physical Channel Reconfiguration
Radio Link Supervision	a) Radio Link Failure
	b) Radio Link Restoration
Compressed Mode Control [FDD]	a) Radio Link Setup
	b) Radio Link Addition
	d) Uneventioned Dedic Link Decention
	a) Synchronised Radio Link Reconfiguration
	Propagation
	f Synchronised Padio Link Reconfiguration
	Commit
	d) Synchronised Radio Link Reconfiguration
	Cancellation
Measurements on Dedicated Resources	a) Dedicated Measurement Initiation
	b) Dedicated Measurement Reporting
	c) Dedicated Measurement Termination
	d) Dedicated Measurement Failure
DL Power Drifting Correction [FDD]	Downlink Power Control
DCH Rate Control	a) Radio Link Setup
	b) Radio Link Addition
	c) Unsynchronised Radio Link Reconfiguration
	d) Synchronised Radio Link Reconfiguration
	Preparation
	e) Radio Link Congestion
CCCH Signalling Transfer	a) Uplink Signalling Transfer
	b) Downlink Signalling Transfer
Paging	Paging
Common Transport Channel Resources	a) Common Transport Channel Resources
Management	Initiation
	b) Common Transport Channel Resources
	Release
Relocation Execution	Relocation Commit
Reporting of General Error Situations	
weasurements on Common Resources	a) Common Measurement Initiation
	b) Common Measurement Reporting
	c) Common Measurement Termination
Information Evolution	a) Lonimon Measurement Failure
momation Exchange	a) information Exchange Initiation
	b) Information Evoluting
	d) Information Exchange Feilure
DL Power Timeslot Correction (TDD)	Downlink Power Timeslet Control
INCOST INCOST	INCOCI

Table 1: Mapping between functions and RNSAP elementary procedures

8.1 Elementary Procedures

In the following tables, all EPs are divided into Class 1 and Class 2 EPs.

Elementary	Initiating Message	Successful Outcome	Unsuccessful Outcome
Procedure		Response message	Response message
Radio Link Setup	RADIO LINK SETUP	RADIO LINK SETUP	RADIO LINK SETUP
	REQUEST	RESPONSE	FAILURE
Radio Link	RADIO LINK	RADIO LINK	RADIO LINK ADDITION
Addition	ADDITION REQUEST	ADDITION	FAILURE
6		RESPONSE	
Radio Link			
Deletion	DELETION REQUEST		
Synchronised			
Radio Link	RECONFIGURATION	RECONFIGURATION	RECONFIGURATION
Reconfiguration	PREPARE	READY	FAILURE
Preparation			
Unsynchronised	RADIO LINK	RADIO LINK	RADIO LINK
Radio Link	RECONFIGURATION	RECONFIGURATION	RECONFIGURATION
Reconfiguration	REQUEST	RESPONSE	FAILURE
Physical Channel	PHYSICAL CHANNEL	PHYSICAL CHANNEL	PHYSICAL CHANNEL
Reconfiguration	RECONFIGURATION	RECONFIGURATION	RECONFIGURATION
	REQUEST	COMMAND	FAILURE
Dedicated			
Initiation			
milialion	INITIATION REQUEST	RESPONSE	INITIATION FAILURE
Common	COMMON	COMMON	COMMON TRANSPORT
Transport	TRANSPORT	TRANSPORT	CHANNEL RESOURCES
Channel	CHANNEL	CHANNEL	FAILURE
Resources	RESOURCES	RESOURCES	
Initialisation	REQUEST	RESPONSE	
Common	COMMON	COMMON	COMMON
Measurement	MEASUREMENT	MEASUREMENT	MEASUREMENT
Initiation	INITIATION REQUEST	INITIATION	INITIATION FAILURE
		RESPONSE	
Information			
Exchange Initiation			
muation		RESPONSE	
Reset	RESET REQUEST	RESET RESPONSE	

Table 2: Class 1 Elementary Procedures

Elementary Procedure	Initiating Message
Uplink Signalling Transfer	UPLINK SIGNALLING TRANSFER
1 0 0	INDICATION
Downlink Signalling Transfer	DOWNLINK SIGNALLING
5 5	TRANSFER REQUEST
Relocation Commit	RELOCATION COMMIT
Paging	PAGING REQUEST
Synchronised Radio Link	RADIO LINK RECONFIGURATION
Reconfiguration Commit	COMMIT
Synchronised Radio Link	RADIO LINK RECONFIGURATION
Reconfiguration Cancellation	CANCEL
Radio Link Failure	RADIO LINK FAILURE INDICATION
Radio Link Restoration	RADIO LINK RESTORE INDICATION
Dedicated Measurement Reporting	DEDICATED MEASUREMENT
	REPORT
Dedicated Measurement	DEDICATED MEASUREMENT
Termination	TERMINATION REQUEST
Dedicated Measurement Failure	DEDICATED MEASUREMENT
	FAILURE INDICATION
Downlink Power Control [FDD]	DL POWER CONTROL REQUEST
Compressed Mode Command	COMPRESSED MODE COMMAND
Common Transport Channel	COMMON TRANSPORT CHANNEL
	RESOURCES RELEASE REQUEST
Error Indication	
Downlink Power Timeslot Control	
[IDD] Dedie Lieb Des seentier	
Radio Link Pre-emption	
Dedie Link Connection	
Radio Link Congestion	
Common Macouromont Departing	
Common Measurement Reporting	
Common Moosuromont	
Termination	
Common Moosuromont Eailuro	
	FAILURE INDICATION
Information Reporting	INFORMATION REPORT
Information Exchange Termination	INFORMATION EXCHANGE
	TERMINATION REQUEST
Information Exchange Failure	INFORMATION EXCHANGE
	FAILURE INDICATION

Table 3: Class 2 Elementary Procedures

8

8.5.x. Reset

8.5.x.1 General

The purpose of the reset procedure is to align the resources in RNC_1 and RNC_2 in the event of an abnormal failure.

The procedure uses connectionless signalling.

8.5.x.2 Successful Operation



Figure xx Reset procedure, Successful Operation

The procedure is initiated with a RESET REQUEST message sent from the RNC₁ to the RNC₂.

If the Reset Indicator IE is set to 'Context', then:

- For all indicated UE contexts identified by the *S-RNTI* IE, the RNC₂ in the role of DRNC, shall remove all the indicated UE Contexts and all the radio resources allocated for these UE Contexts. In addition, the RNC₂ shall take actions according to Annex D.2.
- <u>For all indicated UE contexts identified by the *D-RNTI* IE, the RNC₂ in the role of SRNC, shall remove the information related to the RNC₁ for all indicated UE Contexts and the radio resources allocated for these UE <u>Contexts</u>.</u>

The RNC₂ shall also initiate release of the dedicated or common user plane resources that were involved in these UE Contexts. After clearing all related resources, the RNC₂ shall return the RESET RESPONSE message to the RNC₁.

If the *Reset Indicator* IE is set to 'All Contexts', then the RNC₂ shall:

- In the role of DRNC, remove all the UE Contexts for which the RNC₁ is the SRNC and all the radio resources allocated for these UE Contexts. In addition, the RNC₂ shall take actions according to Annex D.2.
- In the role of SRNC, remove the information related to the RNC₁ for all the UE Contexts and all the radio resources allocated for these UE Contexts.

The RNC₂ shall also initiate release of the dedicated or common user plane resources that were involved in these UE Contexts. After clearing all related resources, the RNC₂ shall return the RESET RESPONSE message to the RNC₁.

8.5.x.3 Abnormal Conditions

If the RESET message is received, any other ongoing procedure (except another Reset procedure) on same Iur interface related to a context indicated explicitly or implicitly in the message shall be aborted.

9.1.xx RESET REQUEST

IE/Group Name	Presence	<u>Range</u>	IE type and	Semantic Descripti	Criticality	Assigned Criticality
			reference	on		
Message Type	M		<u>9.2.1.40</u>		<u>YES</u>	<u>reject</u>
Transaction ID	<u>M</u>		<u>9.2.1.59</u>		=	
RNC-Id	<u>M</u>		<u>9.2.1.50</u>	Identity of	<u>YES</u>	<u>reject</u>
				<u>the</u>		
				sending		
				<u>RNC</u>		
CHOICE Reset Indicator	<u>M</u>				<u>YES</u>	<u>reject</u>
<u>>Context</u>					=	
>>Context		<u>1<maxre< u=""></maxre<></u>			EACH	<u>reject</u>
Information		<u>setContext</u>				
		2				
>>>CHOICE Context	<u>M</u>				_	
<u> </u>						
>>>SRNTI					_	
>>>>S-RNTI	<u>M</u>		<u>9.2.1.53</u>		_	
<u>>>>>DRNTI</u>					_	
>>>>D-RNTI	M		<u>9.2.1.24</u>		_	
<u>>All Contexts</u>			<u>NULL</u>		=	

Range bound	Explanation
maxResetContext	Maximum number of contexts that can be reset by
	one RESET message.

9.1.xx RESET RESPONSE

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.40		<u>YES</u>	<u>reject</u>
Transaction ID	M		<u>9.2.1.59</u>		Ξ	
RNC-Id	M		<u>9.2.1.50</u>	Identity of the sending RNC	<u>YES</u>	<u>ignore</u>
Criticality Diagnostics	<u>0</u>		<u>9.2.1.13</u>		<u>YES</u>	<u>ignore</u>

9.2.1.40 Message Type

The Message Type uniquely identifies the message being sent.

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

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9.3.2	Elementary Procedure Definitions
**** 	***************************************
Elem	entary Procedure definitions
****	***************************************
RNSAP-P itu-t (umts-Ac	DU-Descriptions { 0) identified-organization (4) etsi (0) mobileDomain (0) cess (20) modules (3) rnsap (1) version1 (1) rnsap-PDU-Descriptions (0) }
DEFINIT	IONS AUTOMATIC TAGS ::=
BEGIN	
****	***************************************
IE p	arameter types from other modules.
****	***************************************
IMPORTS	
Cri	ticality,
Pro	cedureID,
Tra	nsactionID
FROM RN	SAP-CommonDataTypes
Com	monMeasurementFailureIndication,
Com	monMeasurementInitiationFailure,
Com	monMeasurementInitiationRequest,
Com	monMeasurementInitiationResponse,
Com	monMeasurementReport,
Com	monMeasurementTerminationRequest,
Com	monTransportChannelResourcesFailure,
Com	monTransportChannelResourcesRequest,
Com	monTransportChannelResourcesReleaseRequest,
Com	monTransportChannelResourcesResponseFDD,
Com	monTransportChannelResourcesResponseTDD,
Com	pressedModeCommand,
Ded	icatedMeasurementFailureIndication,
Ded	icatedMeasurementInitiationFailure,
Ded	icatedMeasurementInitiationRequest,
Ded	icatedMeasurementInitiationResponse,
Ded	icatedMeasurementReport,
Ded	icatedMeasurementTerminationRequest,
DL-	PowerControlRequest,
DL-	PowerTimeslotControlRequest,
Dow	nlinkSignallingTransferRequest,
Err	orIndication,

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InformationExchangeFailureIndication, InformationExchangeInitiationFailure, InformationExchangeInitiationReguest, InformationExchangeInitiationResponse, InformationExchangeTerminationReguest, InformationReport, PagingRequest, PhysicalChannelReconfigurationCommand, PhysicalChannelReconfigurationFailure, PhysicalChannelReconfigurationRequestFDD, PhysicalChannelReconfigurationReguestTDD, PrivateMessage, RadioLinkAdditionFailureFDD, RadioLinkAdditionFailureTDD. RadioLinkAdditionRequestFDD, RadioLinkAdditionRequestTDD, RadioLinkAdditionResponseFDD, RadioLinkAdditionResponseTDD, RadioLinkCongestionIndication, RadioLinkDeletionRequest, RadioLinkDeletionResponse, RadioLinkFailureIndication, RadioLinkPreemptionRequiredIndication, RadioLinkReconfigurationCancel, RadioLinkReconfigurationCommit, RadioLinkReconfigurationFailure, RadioLinkReconfigurationPrepareFDD, RadioLinkReconfigurationPrepareTDD, RadioLinkReconfigurationReadyFDD, RadioLinkReconfigurationReadyTDD, RadioLinkReconfigurationRequestFDD, RadioLinkReconfigurationRequestTDD, RadioLinkReconfigurationResponseFDD, RadioLinkReconfigurationResponseTDD, RadioLinkRestoreIndication, RadioLinkSetupFailureFDD, RadioLinkSetupFailureTDD, RadioLinkSetupRequestFDD, RadioLinkSetupRequestTDD, RadioLinkSetupResponseFDD, RadioLinkSetupResponseTDD, RelocationCommit, ResetRequest, ResetResponse, UplinkSignallingTransferIndicationFDD, UplinkSignallingTransferIndicationTDD

FROM RNSAP-PDU-Contents

id-commonMeasurementFailure, id-commonMeasurementInitiation, id-commonMeasurementReporting,

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id-commonMeasurementTermination, id-commonTransportChannelResourcesInitialisation, id-commonTransportChannelResourcesRelease, id-compressedModeCommand, id-downlinkPowerControl, id-downlinkSignallingTransfer, id-downlinkPowerTimeslotControl, id-errorIndication, id-informationExchangeFailure, id-informationExchangeInitiation, id-informationReporting, id-informationExchangeTermination, id-dedicatedMeasurementFailure, id-dedicatedMeasurementInitiation. id-dedicatedMeasurementReporting, id-dedicatedMeasurementTermination, id-paging, id-physicalChannelReconfiguration, id-privateMessage, id-radioLinkAddition, id-radioLinkCongestion, id-radioLinkDeletion, id-radioLinkFailure, id-radioLinkPreemption, id-radioLinkRestoration, id-radioLinkSetup, id-relocationCommit, id-reset, id-synchronisedRadioLinkReconfigurationCancellation, id-synchronisedRadioLinkReconfigurationCommit, id-synchronisedRadioLinkReconfigurationPreparation, id-unSynchronisedRadioLinkReconfiguration, id-uplinkSignallingTransfer FROM RNSAP-Constants; **** _ _ -- Interface Elementary Procedure Class _ _ RNSAP-ELEMENTARY-PROCEDURE ::= CLASS &InitiatingMessage &SuccessfulOutcome OPTIONAL, &UnsuccessfulOutcome OPTIONAL, &Outcome OPTIONAL, &procedureID ProcedureID UNIQUE, &criticality DEFAULT ignore Criticality WITH SYNTAX { INITIATING MESSAGE &InitiatingMessage

```
Release 4
                                        14
                                                                  3GPP TS 25.423 v4.3.0 (2001-12)
                          &SuccessfulOutcome]
   [SUCCESSFUL OUTCOME
   [UNSUCCESSFUL OUTCOME
                             &UnsuccessfulOutcome]
   [ OUTCOME
                      &Outcomel
   PROCEDURE ID
                         &procedureID
                         &criticality]
   [CRITICALITY
    Interface PDU Definition
_ _
    ************
RNSAP-PDU ::= CHOICE {
   initiatingMessage
                     InitiatingMessage,
   successfulOutcome SuccessfulOutcome,
   unsuccessfulOutcome UnsuccessfulOutcome,
   outcome
                  Outcome,
   . . .
InitiatingMessage ::= SEQUENCE {
                                                       ({RNSAP-ELEMENTARY-PROCEDURES}),
   procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID
   criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality
                                                       ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID}),
   transactionID TransactionID,
   value
              RNSAP-ELEMENTARY-PROCEDURE.&InitiatingMessage
                                                           ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID})
SuccessfulOutcome ::= SEOUENCE {
   procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID
                                                       ({RNSAP-ELEMENTARY-PROCEDURES}),
   criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality
                                                       ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID}),
   transactionID TransactionID,
   value
              RNSAP-ELEMENTARY-PROCEDURE.&SuccessfulOutcome
                                                           ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID})
}
UnsuccessfulOutcome ::= SEQUENCE {
   procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID
                                                       ({RNSAP-ELEMENTARY-PROCEDURES}),
                                                       ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID}),
   criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality
   transactionID TransactionID,
   value
              RNSAP-ELEMENTARY-PROCEDURE.&UnsuccessfulOutcome ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID})
ļ
Outcome ::= SEQUENCE {
                                                       ({RNSAP-ELEMENTARY-PROCEDURES}),
   procedureID RNSAP-ELEMENTARY-PROCEDURE.&procedureID
   criticality RNSAP-ELEMENTARY-PROCEDURE.&criticality
                                                       ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID}),
   transactionID TransactionID,
   value
              RNSAP-ELEMENTARY-PROCEDURE.&Outcome
                                                    ({RNSAP-ELEMENTARY-PROCEDURES}{@procedureID})
```

Rel	ease	4
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-- Interface Elementary Procedure List _ _ RNSAP-ELEMENTARY-PROCEDURES RNSAP-ELEMENTARY-PROCEDURE ::= { RNSAP-ELEMENTARY-PROCEDURES-CLASS-1 RNSAP-ELEMENTARY-PROCEDURES-CLASS-2 RNSAP-ELEMENTARY-PROCEDURES-CLASS-3 . . . RNSAP-ELEMENTARY-PROCEDURES-CLASS-1 RNSAP-ELEMENTARY-PROCEDURE ::= { radioLinkSetupFDD radioLinkSetupTDD radioLinkAdditionFDD radioLinkAdditionTDD radioLinkDeletion synchronisedRadioLinkReconfigurationPreparationFDD synchronisedRadioLinkReconfigurationPreparationTDD unSynchronisedRadioLinkReconfigurationFDD unSynchronisedRadioLinkReconfigurationTDD physicalChannelReconfigurationFDD physicalChannelReconfigurationTDD dedicatedMeasurementInitiation commonTransportChannelResourcesInitialisationFDD commonTransportChannelResourcesInitialisationTDD . . . , commonMeasurementInitiation informationExchangeInitiation reset RNSAP-ELEMENTARY-PROCEDURES-CLASS-2 RNSAP-ELEMENTARY-PROCEDURE ::= { uplinkSignallingTransferFDD uplinkSignallingTransferTDD downlinkSignallingTransfer relocationCommit paging synchronisedRadioLinkReconfigurationCommit synchronisedRadioLinkReconfigurationCancellation radioLinkFailure radioLinkPreemption radioLinkRestoration dedicatedMeasurementReporting dedicatedMeasurementTermination dedicatedMeasurementFailure downlinkPowerControlFDD downlinkPowerTimeslotControl compressedModeCommandFDD commonTransportChannelResourcesRelease errorIndication

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```
privateMessage
   . . . ,
   radioLinkCongestion
   commonMeasurementFailure
   commonMeasurementReporting
   commonMeasurementTermination
   informationExchangeFailure
   informationExchangeTermination
   informationReporting
RNSAP-ELEMENTARY-PROCEDURES-CLASS-3 RNSAP-ELEMENTARY-PROCEDURE ::= {
   . . .
           -- Interface Elementary Procedures
_ _
radioLinkSetupFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE RadioLinkSetupRequestFDD
   SUCCESSFUL OUTCOME RadioLinkSetupResponseFDD
   UNSUCCESSFUL OUTCOME
                         RadioLinkSetupFailureFDD
   PROCEDURE ID
                      { procedureCode id-radioLinkSetup, ddMode fdd }
   CRITICALITY
                  reject
radioLinkSetupTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE RadioLinkSetupRequestTDD
   SUCCESSFUL OUTCOME RadioLinkSetupResponseTDD
   UNSUCCESSFUL OUTCOME
                         RadioLinkSetupFailureTDD
                      { procedureCode id-radioLinkSetup, ddMode tdd }
   PROCEDURE ID
   CRITICALITY
                  reject
radioLinkAdditionFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE RadioLinkAdditionRequestFDD
   SUCCESSFUL OUTCOME RadioLinkAdditionResponseFDD
   UNSUCCESSFUL OUTCOME
                          RadioLinkAdditionFailureFDD
   PROCEDURE ID
                      { procedureCode id-radioLinkAddition , ddMode fdd }
   CRITICALITY
                  reject
}
radioLinkAdditionTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
   INITIATING MESSAGE RadioLinkAdditionRequestTDD
   SUCCESSFUL OUTCOME RadioLinkAdditionResponseTDD
   UNSUCCESSFUL OUTCOME
                         RadioLinkAdditionFailureTDD
   PROCEDURE ID
                      { procedureCode id-radioLinkAddition , ddMode tdd }
   CRITICALITY
                  reject
```

```
Release 4
```

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```
radioLinkDeletion RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkDeletionRequest
    SUCCESSFUL OUTCOME RadioLinkDeletionResponse
    PROCEDURE ID
                        { procedureCode id-radioLinkDeletion, ddMode common }
    CRITICALITY
                    reject
}
synchronisedRadioLinkReconfigurationPreparationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationPrepareFDD
    SUCCESSFUL OUTCOME RadioLinkReconfigurationReadyFDD
    UNSUCCESSFUL OUTCOME
                           RadioLinkReconfigurationFailure
    PROCEDURE ID
                        { procedureCode id-synchronisedRadioLinkReconfigurationPreparation, ddMode fdd }
                    reject
    CRITICALITY
synchronisedRadioLinkReconfigurationPreparationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationPrepareTDD
    SUCCESSFUL OUTCOME RadioLinkReconfigurationReadyTDD
    UNSUCCESSFUL OUTCOME
                           RadioLinkReconfigurationFailure
                        { procedureCode id-synchronisedRadioLinkReconfigurationPreparation, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                    reject
unSynchronisedRadioLinkReconfigurationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationReguestFDD
    SUCCESSFUL OUTCOME RadioLinkReconfigurationResponseFDD
                           RadioLinkReconfigurationFailure
    UNSUCCESSFUL OUTCOME
    PROCEDURE ID
                        { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode fdd }
    CRITICALITY
                    reject
unSynchronisedRadioLinkReconfigurationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationRequestTDD
    SUCCESSFUL OUTCOME RadioLinkReconfigurationResponseTDD
    UNSUCCESSFUL OUTCOME
                           RadioLinkReconfigurationFailure
                        { procedureCode id-unSynchronisedRadioLinkReconfiguration, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                    reject
physicalChannelReconfigurationFDD RNSAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE PhysicalChannelReconfigurationRequestFDD
    SUCCESSFUL OUTCOME PhysicalChannelReconfigurationCommand
                           PhysicalChannelReconfigurationFailure
    UNSUCCESSFUL OUTCOME
    PROCEDURE ID
                        { procedureCode id-physicalChannelReconfiguration, ddMode fdd }
    CRITICALITY
                    reject
physicalChannelReconfigurationTDD RNSAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE PhysicalChannelReconfigurationRequestTDD
```
```
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                                            18
                                                                        3GPP TS 25.423 v4.3.0 (2001-12)
    SUCCESSFUL OUTCOME PhysicalChannelReconfigurationCommand
    UNSUCCESSFUL OUTCOME
                           PhysicalChannelReconfigurationFailure
                        { procedureCode id-physicalChannelReconfiguration. ddMode tdd
    PROCEDURE ID
    CRITICALITY
                    reject
dedicatedMeasurementInitiation RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DedicatedMeasurementInitiationRequest
    SUCCESSFUL OUTCOME DedicatedMeasurementInitiationResponse
    UNSUCCESSFUL OUTCOME
                           DedicatedMeasurementInitiationFailure
    PROCEDURE ID
                        { procedureCode id-dedicatedMeasurementInitiation, ddMode common }
    CRITICALITY
                    reject
commonTransportChannelResourcesInitialisationFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonTransportChannelResourcesRequest
    SUCCESSFUL OUTCOME CommonTransportChannelResourcesResponseFDD
    UNSUCCESSFUL OUTCOME
                           CommonTransportChannelResourcesFailure
    PROCEDURE ID
                        { procedureCode id-commonTransportChannelResourcesInitialisation, ddMode fdd }
    CRITICALITY
                    reject
commonTransportChannelResourcesInitialisationTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonTransportChannelResourcesRequest
    SUCCESSFUL OUTCOME CommonTransportChannelResourcesResponseTDD
                            CommonTransportChannelResourcesFailure
    UNSUCCESSFUL OUTCOME
                        { procedureCode id-commonTransportChannelResourcesInitialisation, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                    reject
uplinkSignallingTransferFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE UplinkSignallingTransferIndicationFDD
    PROCEDURE ID
                        { procedureCode id-uplinkSignallingTransfer, ddMode fdd }
    CRITICALITY
                    ignore
uplinkSignallingTransferTDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                       UplinkSignallingTransferIndicationTDD
                        { procedureCode id-uplinkSignallingTransfer, ddMode tdd }
    PROCEDURE ID
    CRITICALITY
                    ignore
ļ
downlinkSignallingTransfer RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DownlinkSignallingTransferRequest
                        { procedureCode id-downlinkSignallingTransfer, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
}
relocationCommit RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RelocationCommit
    PROCEDURE ID
                        { procedureCode id-relocationCommit, ddMode common }
```

```
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```

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```
CRITICALITY
                    ignore
ļ
paging RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE PagingRequest
    PROCEDURE ID
                        { procedureCode id-paging, ddMode common }
    CRITICALITY
                    ignore
}
synchronisedRadioLinkReconfigurationCommit RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationCommit
                        { procedureCode id-synchronisedRadioLinkReconfigurationCommit, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
synchronisedRadioLinkReconfigurationCancellation RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkReconfigurationCancel
    PROCEDURE ID
                        { procedureCode id-synchronisedRadioLinkReconfigurationCancellation, ddMode common }
    CRITICALITY
                    ignore
}
radioLinkFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkFailureIndication
    PROCEDURE ID
                        { procedureCode id-radioLinkFailure, ddMode common }
    CRITICALITY
                    ignore
}
radioLinkPreemption RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkPreemptionRequiredIndication
    PROCEDURE ID
                        { procedureCode id-radioLinkPreemption, ddMode common }
    CRITICALITY
                    ignore
radioLinkRestoration RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkRestoreIndication
                        { procedureCode id-radioLinkRestoration, ddMode common
    PROCEDURE ID
    CRITICALITY
                    ignore
dedicatedMeasurementReporting RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DedicatedMeasurementReport
    PROCEDURE ID
                        { procedureCode id-dedicatedMeasurementReporting, ddMode common }
    CRITICALITY
                    ignore
}
dedicatedMeasurementTermination RNSAP-ELEMENTARY-PROCEDURE ::=
    INITIATING MESSAGE DedicatedMeasurementTerminationRequest
                        { procedureCode id-dedicatedMeasurementTermination, ddMode common }
    PROCEDURE ID
    CRITICALITY
                    ignore
```

```
dedicatedMeasurementFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DedicatedMeasurementFailureIndication
    PROCEDURE ID
                        { procedureCode id-dedicatedMeasurementFailure, ddMode common
    CRITICALITY
                    ignore
}
radioLinkCongestion RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE RadioLinkCongestionIndication
    PROCEDURE ID
                        { procedureCode id-radioLinkCongestion, ddMode common }
    CRITICALITY
                    reiect
downlinkPowerControlFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DL-PowerControlRequest
                        { procedureCode id-downlinkPowerControl, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                    ignore
downlinkPowerTimeslotControl RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE DL-PowerTimeslotControlRequest
    PROCEDURE ID
                        { procedureCode id-downlinkPowerTimeslotControl, ddMode tdd }
    CRITICALITY
                    ignore
}
compressedModeCommandFDD RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CompressedModeCommand
                        { procedureCode id-compressedModeCommand, ddMode fdd }
    PROCEDURE ID
    CRITICALITY
                    ignore
commonTransportChannelResourcesRelease RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonTransportChannelResourcesReleaseRequest
    PROCEDURE ID
                        { procedureCode id-commonTransportChannelResourcesRelease, ddMode common }
    CRITICALITY
                    ignore
errorIndication RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE ErrorIndication
    PROCEDURE ID
                        { procedureCode id-errorIndication, ddMode common }
    CRITICALITY
                    ignore
commonMeasurementInitiation RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            CommonMeasurementInitiationRequest
    SUCCESSFUL OUTCOME
                            CommonMeasurementInitiationResponse
    UNSUCCESSFUL OUTCOME
                           CommonMeasurementInitiationFailure
                            { procedureCode id-commonMeasurementInitiation, ddMode common }
```

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```
commonMeasurementReporting RNSAP-ELEMENTARY-PROCEDURE ::= {
```

reject

PROCEDURE ID

CRITICALITY

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```
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                                                                         3GPP TS 25.423 v4.3.0 (2001-12)
    INITIATING MESSAGE
                        CommonMeasurementReport
    PROCEDURE ID
                         { procedureCode id-commonMeasurementReporting, ddMode common }
    CRITICALITY
                        ignore
commonMeasurementTermination RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonMeasurementTerminationRequest
    PROCEDURE ID
                        { procedureCode id-commonMeasurementTermination, ddMode common }
    CRITICALITY
                    ignore
commonMeasurementFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE CommonMeasurementFailureIndication
    PROCEDURE ID
                        { procedureCode id-commonMeasurementFailure, ddMode common }
    CRITICALITY
                    ignore
ļ
informationExchangeInitiation RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            InformationExchangeInitiationRequest
    SUCCESSFUL OUTCOME
                            InformationExchangeInitiationResponse
    UNSUCCESSFUL OUTCOME
                            InformationExchangeInitiationFailure
                            { procedureCode id-informationExchangeInitiation, ddMode common }
    PROCEDURE ID
    CRITICALITY
                            reject
informationReporting RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            InformationReport
    PROCEDURE ID
                             { procedureCode id-informationReporting, ddMode common }
    CRITICALITY
                            ignore
}
informationExchangeTermination RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            InformationExchangeTerminationRequest
    PROCEDURE ID
                            { procedureCode id-informationExchangeTermination, ddMode common }
    CRITICALITY
                            ignore
informationExchangeFailure RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            InformationExchangeFailureIndication
    PROCEDURE ID
                            { procedureCode id-informationExchangeFailure, ddMode common }
    CRITICALITY
                            ignore
privateMessage RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE PrivateMessage
    PROCEDURE ID
                        { procedureCode id-privateMessage, ddMode common }
    CRITICALITY
                    ignore
reset RNSAP-ELEMENTARY-PROCEDURE ::= {
    INITIATING MESSAGE
                            ResetRequest
```

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	SUCCESSFUL OUTCOME	ResetResponse	
	PROCEDURE ID	<pre>{ procedureCode id-reset, ddMode common }</pre>	
	CRITICALITY	reject	
}			

END

9.3.3 PDU Definitions

PDU definitions for RNSAP.

RNSAP-PDU-Contents { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-PDU-Contents (1)
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

IE parameter types from other modules.

<pre>IMPORTS Active-Pattern-Sequence-Information, AllocationRetentionPriority, AllowedQueuingTime, Allowed-Rate-Information, AlphaValue, BLER, SCTD-Indicator, BindingID, C-ID, C-ID, C-RNTI, CCTrCH-ID, CFN, ClosedLoopModel-SupportIndicator, ClosedLoopMode2-SupportIndicator, ClosedLoopMode2-SupportIndicator, ClosedLoopMode2-SupportIndicator, ClosedLoopMode2-SupportIndicator, CN-CS-DomainIdentifier, CN-PS-DomainIdentifier, CNDomainType,</pre>

}

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Cause. CellParameterID, ChipOffset. CommonMeasurementAccuracy, CommonMeasurementType, CommonMeasurementValue, CommonMeasurementValueInformation, CongestionCause, CriticalityDiagnostics, D-RNTI, D-RNTI-ReleaseIndication, DCH-FDD-Information, DCH-ID. DCH-InformationResponse, DCH-TDD-Information, DL-DPCH-SlotFormat, DL-TimeslotISCP, DL-Power, DL-ScramblingCode, DL-Timeslot-Information, DL-TimeslotLCR-Information, DL-TimeSlot-ISCP-Info, DL-TimeSlot-ISCP-LCR-Information, DPC-Mode. DPC-Mode-Change-SupportIndicator, DPCH-ID, DRACControl, DRXCycleLengthCoefficient, DedicatedMeasurementType, DedicatedMeasurementValue, DedicatedMeasurementValueInformation, DiversityControlField, DiversityMode, DSCH-FDD-Information, DSCH-FDD-InformationResponse, DSCH-FlowControlInformation, DSCH-FlowControlItem, DSCH-TDD-Information, DSCH-ID, SchedulingPriorityIndicator, EnhancedDSCHPC, EnhancedDSCHPCCounter, EnhancedDSCHPCIndicator, EnhancedDSCHPCWnd, EnhancedDSCHPowerOffset, FACH-FlowControlInformation, FDD-DCHs-to-Modify, FDD-DL-ChannelisationCodeNumber, FDD-DL-CodeInformation, FDD-S-CCPCH-Offset, FDD-TPC-DownlinkStepSize,

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FirstRLS-Indicator, FNReportingIndicator, FrameHandlingPriority, FrameOffset, GA-AccessPointPosition, GA-Cell, GA-CellAdditionalShapes, IMSI, InformationExchangeID, InformationReportCharacteristics, InformationType, InnerLoopDLPCStatus, L3-Information. LimitedPowerIncrease, MaximumAllowedULTxPower, MaxNrDLPhysicalchannels, MaxNrOfUL-DPCHs, MaxNrTimeslots, MaxNrULPhysicalchannels, MeasurementFilterCoefficient, MeasurementID, MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftLCR, MinimumSpreadingFactor, MinUL-ChannelisationCodeLength, MultiplexingPosition, NeighbouringFDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation, Neighbouring-GSM-CellInformation, Neighbouring-UMTS-CellInformation, NrOfDLchannelisationcodes, PagingCause, PagingRecordType, PDSCHCodeMapping, PayloadCRC-PresenceIndicator, PCCPCH-Power, PC-Preamble, Permanent-NAS-UE-Identity, PowerAdjustmentType, PowerOffset, PrimaryCCPCH-RSCP, PrimaryCPICH-EcNo, PrimaryCPICH-Power, PrimaryScramblingCode, PropagationDelay, PunctureLimit, OE-Selector, RANAP-RelocationInformation, RB-Info, RL-ID,

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RL-Set-ID, RNC-ID, RepetitionLength, RepetitionPeriod, ReportCharacteristics, Received-total-wide-band-power, RequestedDataValue, RequestedDataValueInformation, RxTimingDeviationForTA, S-FieldLength, S-RNTI, SCH-TimeSlot, SAI, SFN. Secondary-CCPCH-Info, Secondary-CCPCH-Info-TDD, Secondary-LCR-CCPCH-Info-TDD, SpecialBurstScheduling, SSDT-CellID, SSDT-CellID-Length, SSDT-Indication, SSDT-SupportIndicator, STTD-Indicator, STTD-SupportIndicator, AdjustmentPeriod, ScaledAdjustmentRatio, MaxAdjustmentStep, SecondaryCCPCH-SlotFormat, SRB-Delay, SyncCase, SynchronisationConfiguration, TDD-ChannelisationCode, TDD-DCHs-to-Modify, TDD-DL-Code-Information, TDD-DPCHOffset, TDD-PhysicalChannelOffset, TDD-TPC-DownlinkStepSize, TDD-ChannelisationCodeLCR, TDD-DL-Code-LCR-Information, TDD-UL-Code-Information, TDD-UL-Code-LCR-Information, TFCI-Coding, TFCI-Presence, TFCI-SignallingMode, TimeSlot, TimeSlotLCR, TimingAdvanceApplied, TOAWE, TOAWS, TransmitDiversityIndicator, TransportBearerID,

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TransportBearerRequestIndicator, TFCS, Transmission-Gap-Pattern-Sequence-Information, TransportFormatManagement, TransportFormatSet, TransportLayerAddress, TrCH-SrcStatisticsDescr, TSTD-Indicator, TSTD-Support-Indicator, UARFCN, UC-ID, UL-DPCCH-SlotFormat. UL-SIR, UL-FP-Mode. UL-PhysCH-SF-Variation, UL-ScramblingCode, UL-Timeslot-Information, UL-TimeslotLCR-Information, UL-TimeSlot-ISCP-Info, UL-TimeSlot-ISCP-LCR-Info, URA-ID, URA-Information, USCH-ID, USCH-Information FROM RNSAP-IEs PrivateIE-Container{}, ProtocolExtensionContainer{}, ProtocolIE-ContainerList{}, ProtocolIE-ContainerPair{}, ProtocolIE-ContainerPairList{}, ProtocollE-Container{}, ProtocolIE-Single-Container{}, RNSAP-PRIVATE-IES, RNSAP-PROTOCOL-EXTENSION, RNSAP-PROTOCOL-IES, RNSAP-PROTOCOL-IES-PAIR FROM RNSAP-Containers maxNoOfDSCHs, maxNoOfUSCHs, maxNrOfCCTrCHs, maxNrOfDCHs, maxNrOfTS, maxNrOfDPCHs, maxNrOfRLs, maxNrOfRLSets, maxNrOfRLs-1, maxNrOfRLs-2, maxNrOfULTs, maxNrOfDLTs,

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maxResetContext, maxNoOfDSCHsLCR. maxNoOfUSCHsLCR. maxNrOfCCTrCHsLCR. maxNrOfTsLCR. maxNrOfDLTsLCR, maxNrOfULTsLCR, maxNrOfDPCHsLCR, maxNrOfLCRTDDNeighboursPerRNC, maxNrOfMeasNCell, id-Active-Pattern-Sequence-Information, id-AdjustmentRatio, id-AllowedOueuingTime, id-BindingID, id-C-ID, id-C-RNTI, id-CFN, id-CFNReportingIndicator, id-CN-CS-DomainIdentifier, id-CN-PS-DomainIdentifier, id-Cause, id-CauseLevel-RL-AdditionFailureFDD, id-CauseLevel-RL-AdditionFailureTDD. id-CauseLevel-RL-ReconfFailure, id-CauseLevel-RL-SetupFailureFDD, id-CauseLevel-RL-SetupFailureTDD, id-CCTrCH-InformationItem-RL-FailureInd, id-CCTrCH-InformationItem-RL-RestoreInd, id-ClosedLoopModel-SupportIndicator, id-ClosedLoopMode2-SupportIndicator, id-CNOriginatedPage-PagingRgst, id-CommonMeasurementAccuracy, id-CommonMeasurementObjectType-CM-Rprt, id-CommonMeasurementObjectType-CM-Rqst, id-CommonMeasurementObjectType-CM-Rsp, id-CommonMeasurementType, id-CongestionCause, id-CriticalityDiagnostics, id-D-RNTI, id-D-RNTI-ReleaseIndication, id-DCHs-to-Add-FDD. id-DCHs-to-Add-TDD, id-DCH-DeleteList-RL-ReconfPrepFDD, id-DCH-DeleteList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfRqstFDD, id-DCH-DeleteList-RL-ReconfRqstTDD, id-DCH-FDD-Information, id-DCH-TDD-Information, id-FDD-DCHs-to-Modify, id-TDD-DCHs-to-Modify,

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id-DCH-InformationResponse, id-DCH-Rate-InformationItem-RL-CongestInd. id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD. id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationModifvItem-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationListIE-RL-ReconfReadvTDD, id-DL-CCTrCH-InformationModifvItem-RL-ReconfRgstTDD, id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD, 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-ReconfRgstTDD, id-DL-CCTrCH-InformationList-RL-SetupRgstTDD, id-FDD-DL-CodeInformation, id-DL-DPCH-Information-RL-ReconfPrepFDD, id-DL-DPCH-Information-RL-SetupRqstFDD, id-DL-DPCH-Information-RL-ReconfRqstFDD, id-DL-DPCH-InformationItem-PhyChReconfRqstTDD, id-DL-DPCH-InformationItem-RL-AdditionRspTDD. id-DL-DPCH-InformationItem-RL-SetupRspTDD, id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD, id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD, id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD, id-DL-Physical-Channel-Information-RL-SetupRqstTDD, id-DLReferencePower, id-DLReferencePowerList-DL-PC-Rast, id-DL-ReferencePowerInformation-DL-PC-Rqst, id-DRXCycleLengthCoefficient, id-DedicatedMeasurementObjectType-DM-Rprt, id-DedicatedMeasurementObjectType-DM-Rgst, id-DedicatedMeasurementObjectType-DM-Rsp, id-DedicatedMeasurementType, id-DPC-Mode, id-DPC-Mode-Change-SupportIndicator, id-DSCHs-to-Add-FDD, id-DSCHs-to-Add-TDD, id-DSCH-DeleteList-RL-ReconfPrepTDD, id-DSCH-Delete-RL-ReconfPrepFDD, id-DSCH-FDD-Information, id-DSCH-InformationListIE-RL-AdditionRspTDD, id-DSCH-InformationListIEs-RL-SetupRspTDD, id-DSCH-TDD-Information. id-DSCH-FDD-InformationResponse, id-DSCH-ModifyList-RL-ReconfPrepTDD, id-DSCH-Modify-RL-ReconfPrepFDD, id-DSCHsToBeAddedOrModified-FDD,

id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD, id-EnhancedDSCHPC. id-EnhancedDSCHPCIndicator. id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD, id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD, id-GA-Cell, id-GA-CellAdditionalShapes, id-IMSI, id-InformationExchangeID, id-InformationExchangeObjectType-InfEx-Rprt, id-InformationExchangeObjectType-InfEx-Rgst, id-InformationExchangeObjectType-InfEx-Rsp, id-InformationReportCharacteristics, id-InformationType, id-InnerLoopDLPCStatus, id-L3-Information, id-AdjustmentPeriod, id-MaxAdjustmentStep, id-MeasurementFilterCoefficient, id-MeasurementID, id-PagingArea-PagingRgst, id-Permanent-NAS-UE-Identity, id-FACH-FlowControlInformation, id-PowerAdjustmentType, id-PropagationDelay, id-RANAP-RelocationInformation, id-ResetIndicator, id-RL-Information-PhyChReconfRqstFDD, id-RL-Information-PhyChReconfRgstTDD, id-RL-Information-RL-AdditionRqstFDD, id-RL-Information-RL-AdditionRgstTDD, 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-RL-CongestInd, id-RL-InformationItem-DM-Rprt, id-RL-InformationItem-DM-Rgst, id-RL-InformationItem-DM-Rsp, id-RL-InformationItem-RL-PreemptRequiredInd, id-RL-InformationItem-RL-SetupRqstFDD, id-RL-InformationList-RL-CongestInd, id-RL-InformationList-RL-AdditionRgstFDD, id-RL-InformationList-RL-DeletionRqst, id-RL-InformationList-RL-PreemptRequiredInd, id-RL-InformationList-RL-ReconfPrepFDD, id-RL-InformationResponse-RL-AdditionRspTDD, id-RL-InformationResponse-RL-ReconfReadyTDD, id-RL-InformationResponse-RL-ReconfRspTDD,

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id-RL-InformationResponse-RL-SetupRspTDD, id-RL-InformationResponseItem-RL-AdditionRspFDD, id-RL-InformationResponseItem-RL-ReconfReadvFDD. id-RL-InformationResponseItem-RL-ReconfRspFDD, id-RL-InformationResponseItem-RL-SetupRspFDD, id-RL-InformationResponseList-RL-AdditionRspFDD, id-RL-InformationResponseList-RL-ReconfReadyFDD, id-RL-InformationResponseList-RL-ReconfRspFDD, id-RL-InformationResponseList-RL-SetupRspFDD, id-RL-ReconfigurationFailure-RL-ReconfFail, id-RL-Set-InformationItem-DM-Rprt, id-RL-Set-InformationItem-DM-Rqst, id-RL-Set-InformationItem-DM-Rsp, id-RL-Set-Information-RL-FailureInd. id-RL-Set-Information-RL-RestoreInd, id-ReportCharacteristics, id-Reporting-Object-RL-FailureInd, id-Reporting-Object-RL-RestoreInd, id-RNC-ID. id-RxTimingDeviationForTA, id-S-RNTI, id-SAI, id-SFN, id-SFNReportingIndicator, id-SRNC-ID, id-SSDT-CellIDforEDSCHPC, id-STTD-SupportIndicator, id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD, id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-timeSlot-ISCP, id-TransportBearerID, id-TransportBearerRequestIndicator, id-TransportLayerAddress, id-UC-ID, id-ContextInfoItem-Reset, id-Transmission-Gap-Pattern-Sequence-Information,

id-Transmission-Gap-Pattern-Sequence-Information, id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD, id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD, id-UL-CCTrCH-InformationListE-PhyChReconfRqstTDD, id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD, id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD,

id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-Information-RL-ReconfPrepFDD, id-UL-DPCH-Information-RL-ReconfRostFDD. id-UL-DPCH-Information-RL-SetupRgstFDD, id-UL-DPCH-InformationItem-PhyChReconfRgstTDD, id-UL-DPCH-InformationItem-RL-AdditionRspTDD, id-UL-DPCH-InformationItem-RL-SetupRspTDD, id-UL-DPCH-InformationAddListIE-RL-ReconfReadvTDD, id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD, id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD, id-UL-Physical-Channel-Information-RL-SetupRqstTDD, id-UL-SIRTarget, id-URA-Information. id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD. id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD, id-USCHs-to-Add, id-USCH-DeleteList-RL-ReconfPrepTDD, id-USCH-InformationListIE-RL-AdditionRspTDD, id-USCH-InformationListIEs-RL-SetupRspTDD, id-USCH-Information, id-USCH-ModifyList-RL-ReconfPrepTDD, id-USCHToBeAddedOrModifiedList-RL-ReconfReadvTDD. id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRqstTDD, id-RL-LCR-InformationResponse-RL-SetupRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD, id-USCH-LCR-InformationListIEs-RL-SetupRspTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRqstTDD, id-RL-LCR-InformationResponse-RL-AdditionRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD, id-DL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD, id-timeSlot-ISCP-LCR-List-DL-PC-Rgst-TDD, id-TSTD-Support-Indicator-RL-SetupRqstTDD

FROM RNSAP-Constants;

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// Not affected parts	s are skipped//	
	<u> </u>	
RESET REQUEST		
************************************	*****	*****
ResetRequest ::= SEQUENCE {		
protocolIEs Pro	otocolIE-Container {{Res	<pre>setRequest-IEs}},</pre>
protocolExtensions Pro	<pre>>tocolExtensionContainer {</pre>	{{ResetRequest-Extensions}} OPTIONAL,
<u></u>		
1		
ResetRequest-IEs RNSAP-PROTOCOI	1-IES ::= {	
{ ID id-RNC-ID	CRITICALITY reject TYPE	RNC-ID PRESENCE mandatory }
[ID id-ResetIndicator	CRITICALITY reject 1	TYPE ResetIndicator PRESENCE mandatory},
<u></u>		
<u>}</u>		
ResetRequest-Extensions RNSAP-F	<u>PROTOCOL-EXTENSION</u> ::= {	
<u></u>		
Ţ		
ResetIndicator ::= CHOICE {		
context ContextList	-Reset,	
all-contexts NULL,		
<u> </u>		
7		
ContextList-Reset ::= SEQUENCE		
		ncionContainer //ContextItem_Peret_ExtIEs} ODTIONAL
	FIGLOCOTEXCEN	ISTORONULINCE [[CONCERCICEM RESEC EXCLES]] OFIIONAL,
}		
ContextItem-Reset-ExtIEs RNSAP-	-PROTOCOL-EXTENSION ::= {	
<u></u>		

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1			
ContextInfoList-Reset ::= SEQUEN	CE (SIZE (1 maxResetCon	text)) OF ProtocolIE-Single-Containe:	r {{ ContextInfoItemIE-Reset }}
ContextInfoItemIE-Reset RNSAP-PR	OTOCOL-IES ::= {		
<pre>{ID id-ContextInfoItem-Reset }</pre>	CRITICALITY rejec	t TYPE ContextInfoItem-Reset	PRESENCE mandatory}
ContextInfoItem-Reset ::= SEQUEN	CE {		
contextType-Reset	ContextType-Reset,		
iE-Extensions	ProtocolExtensionContaine	r { { ContextInfoItem-Reset-ExtIEs}	} OPTIONAL,
<u></u>			
<u>}</u>			
ContextInfoItem-Reset-ExtIEs RNS	AP-PROTOCOL-EXTENSION ::=	{	
<u> </u>			
}			
ContextType-Reset := CHOICE {			
<u>SRN11</u> S-RN11,			
$\frac{\cdots}{1}$			
⊥ ***********************************	****	* * * * * * *	
RESET RESPONSE			
****************************	*****	* * * * * * *	
ResetResponse ::= SEQUENCE {	ocolIE-Container {{Res	etResponse_IFs]}	
protocolExtensions Prot	ocolExtensionContainer {	{ResetResponse-Extensions}}	OPTIONAL,
····			
1			
ResetResponse-IEs RNSAP-PROTOCOL	-IES ::= {		
ID id-RNC-ID {ID id-CriticalityDiagnostic	s CRITICALITY IGNORE TYPE	<pre>gnore TYPE CriticalityDiagnos</pre>	stics PRESENCE optional},
}_			
ResetResponse-Extensions RNSAP-F	ROTOCOL-EXTENSION ::= {		

}

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9.3.6 Constant Definitions

___ -- Constant definitions ---RNSAP-Constants { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-Constants (4) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN IMPORTS ProcedureCode, ProtocolIE-ID FROM RNSAP-CommonDataTypes; ___ -- Elementary Procedures --id-commonTransportChannelResourcesInitialisation ProcedureCode ::= 0 id-commonTransportChannelResourcesRelease ProcedureCode ::= 1 id-compressedModeCommand ProcedureCode ::= 2 id-downlinkPowerControl ProcedureCode ::= 3 id-downlinkPowerTimeslotControl ProcedureCode ::= 4 id-downlinkSignallingTransfer ProcedureCode ::= 5 id-errorIndication ProcedureCode ::= 6 id-dedicatedMeasurementFailure ProcedureCode ::= 7 id-dedicatedMeasurementInitiation ProcedureCode ::= 8 id-dedicatedMeasurementReporting ProcedureCode ::= 9 ${\it id-dedicated} \\ Measurement \\ Termination$ ProcedureCode ::= 10 id-paging ProcedureCode ::= 11 id-physicalChannelReconfiguration ProcedureCode ::= 12 id-privateMessage ProcedureCode ::= 13 id-radioLinkAddition ProcedureCode ::= 14 id-radioLinkCongestion ProcedureCode ::= 34 ProcedureCode ::= 15 id-radioLinkDeletion id-radioLinkFailure ProcedureCode ::= 16

id-radioLinkPreemption		ProcedureCode ::= 17
id-radioLinkRestoration		ProcedureCode ::= 18
id-radioLinkSetup		ProcedureCode ::= 19
id-relocationCommit		ProcedureCode ::= 20
id-synchronisedRadioLinkReconfi	qurationCancellation	ProcedureCode ::= 21
id-synchronisedRadioLinkReconfi	gurationCommit	ProcedureCode ::= 22
id-synchronisedRadioLinkReconfi	gurationPreparation	ProcedureCode ::= 23
id-unSynchronisedRadioLinkRecon	figuration	ProcedureCode ::= 24
id-uplinkSignallingTransfer	-	ProcedureCode ::= 25
id-commonMeasurementFailure		ProcedureCode ::= 26
id-commonMeasurementInitiation		ProcedureCode ::= 27
id-commonMeasurementReporting		ProcedureCode ::= 28
id-commonMeasurementTermination		ProcedureCode ::= 29
id-informationExchangeFailure		ProcedureCode ::= 30
id-informationExchangeInitiatio	n	ProcedureCode ::= 31
id-informationReporting		ProcedureCode ::= 32
id-informationExchangeTerminati	on	ProcedureCode ::= 33
id-reset		ProcedureCode ::= 35
***********************************	***************************************	****
maxCodeNumComp-1	INTEGER ::= 255	
maxRateMatching	INTEGER ::= 256	
maxNoCodeGroups	INTEGER ::= 256	
maxNoOfDSCHs	INTEGER ::= 10	
maxNoOfDSCHsLCR	INTEGER ::= 10	
maxNoOfRB	INTEGER ::= 32	
maxNoOfUSCHs	INTEGER ::= 10	
maxNoOfUSCHsLCR	INTEGER ::= 10	
maxNoTFCIGroups	INTEGER ::= 256	
maxNrOfTFCs	INTEGER ::= 1024	
maxNrOITFS	INTEGER ::= 32	
	INIEGER ··= 16	
maxNrOfDCHg	INTEGER ··= 10	
maxNrOfDL_Codes	INIEGER ··- 120	
maxNrOfDDCHg	INTEGER ::= 240	
maxNrOfDPCHsLCR	INTEGER $::= 240$	
maxNrOfErrors	INTEGER $::= 256$	
maxNrOfMACcshSDU-Length	INTEGER $::= 16$	
maxNrOfPoints	INTEGER $::= 15$	
maxNrOfRLs	INTEGER ::= 16	
maxNrOfRLSets	INTEGER ::= maxN	rOfRLs
maxNrOfRLs-1	INTEGER ::= 15	maxNrOfRLs - 1
maxNrOfRLs-2	INTEGER ::= 14	maxNrOfRLs - 2
maxNrOfULTs	INTEGER ::= 15	
maxNrOfULTsLCR	INTEGER ::= 6	

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Release 4

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maxNrOfDLTs	INTEGER ::= 15	
maxNrOfDLTsLCR	INTEGER ::= 6	
maxRNCinURA-1	INTEGER ::= 15	
maxTTI-Count	INTEGER ::= 4	
maxCTFC	INTEGER ::= 16777215	
maxNrOfNeighbouringRNCs	INTEGER ::= 10	
maxNrOfFDDNeighboursPerRNC	INTEGER ::= 256	
maxNrOfGSMNeighboursPerRNC	INTEGER ::= 256	
maxNrOfTDDNeighboursPerRNC	INTEGER ::= 256	
maxNrOfFACHs	INTEGER ::= 8	
maxNrOfLCRTDDNeighboursPerRNC	INTEGER ::= 256	
maxFACHCountPlus1	INTEGER ::= 10	
maxIBSEG	INTEGER ::= 16	
maxNrOfSCCPCHs	INTEGER ::= 8	
maxTFCI1Combs	INTEGER ::= 512	
maxTFCI2Combs	INTEGER ::= 1024	
maxTFCI2Combs-1	INTEGER ::= 1023	
maxTGPS	INTEGER ::= 6	
maxNrOfTS	INTEGER ::= 15	
maxNrOfLevels	INTEGER ::= 256	
maxNrOfTsLCR	INTEGER ::= 6	
maxNoSat	INTEGER ::= 16	
maxNoGPSTypes	INTEGER ::= 8	
maxNrOfMeasNCell	INTEGER ::= 96	
maxNrOfMeasNCell-1	INTEGER ::= 95 maxNrC)fMeasNCell - 1
maxResetContext	INTEGER ::= 250	
************************************	*******	•
IEs		
************************************	***************************************	•
id-AllowedQueuingTime		ProtocolIE-ID ::= 4
id-Allowed-Rate-Information		ProtocolIE-ID ::= 42
id-BindingID		ProtocolIE-ID ::= 5
id-C-ID		ProtocolIE-ID ::= 6
id-C-RNTI		ProtocolIE-ID ::= 7
id-CFN		ProtocolIE-ID ::= 8
id-CN-CS-DomainIdentifier		ProtocolIE-ID ::= 9
id-CN-PS-DomainIdentifier		ProtocolIE-ID ::= 10
id-Cause		ProtocolIE-ID ::= 11
id-CriticalityDiagnostics		ProtocolIE-ID ::= 20
id-ContextInfoItem-Reset		ProtocolIE-ID ::= 211
id-D-RNTI		ProtocolIE-ID ::= 21
id-D-RNTI-ReleaseIndication		ProtocolIE-ID ::= 22
id-DCHs-to-Add-FDD		ProtocolIE-ID ::= 26

id-DCHs-to-Add-FDDProtocolIE-ID ::= 26id-DCHs-to-Add-TDDProtocolIE-ID ::= 27id-DCH-DeleteList-RL-ReconfPrepFDDProtocolIE-ID ::= 30id-DCH-DeleteList-RL-ReconfPrepTDDProtocolIE-ID ::= 31id-DCH-DeleteList-RL-ReconfRqstFDDProtocolIE-ID ::= 32

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id-DCH-DeleteList-RL-ReconfRqstTDD id-DCH-FDD-Information id-DCH-TDD-Information id-FDD-DCHs-to-Modify id-TDD-DCHs-to-Modify id-DCH-InformationResponse id-DCH-Rate-InformationItem-RL-CongestInd id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD id-DL-CCTrCH-InformationListIE-PhyChReconfRgstTDD id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD id-DL-CCTrCH-InformationList-RL-SetupRgstTDD id-FDD-DL-CodeInformation id-DL-DPCH-Information-RL-ReconfPrepFDD id-DL-DPCH-Information-RL-SetupRqstFDD id-DL-DPCH-Information-RL-ReconfRqstFDD id-DL-DPCH-InformationItem-PhyChReconfRqstTDD id-DL-DPCH-InformationItem-RL-AdditionRspTDD id-DL-DPCH-InformationItem-RL-SetupRspTDD id-DLReferencePower id-DLReferencePowerList-DL-PC-Rqst id-DL-ReferencePowerInformation-DL-PC-Rqst id-DPC-Mode id-DRXCycleLengthCoefficient id-DedicatedMeasurementObjectType-DM-Rprt id-DedicatedMeasurementObjectType-DM-Rgst id-DedicatedMeasurementObjectType-DM-Rsp id-DedicatedMeasurementType id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD id-Guaranteed-Rate-Information id-IMSI id-L3-Information id-AdjustmentPeriod id-MaxAdjustmentStep id-MeasurementFilterCoefficient id-MessageStructure id-MeasurementID id-Neighbouring-GSM-CellInformation id-Neighbouring-UMTS-CellInformationItem id-PagingArea-PagingRqst id-FACH-FlowControlInformation id-Permanent-NAS-UE-Identity id-PowerAdjustmentType id-RANAP-RelocationInformation id-RL-Information-PhyChReconfRqstFDD

ProtocolIE-ID ::= 33 ProtocolIE-ID ::= 34 ProtocolIE-ID ::= 35 ProtocolIE-ID ::= 39 ProtocolIE-ID ::= 40 ProtocolIE-ID ::= 43 ProtocolIE-ID ::= 38 ProtocolIE-ID ::= 44 ProtocolIE-ID ::= 45 ProtocolIE-ID ::= 46 ProtocolIE-ID ::= 47 ProtocolIE-ID ::= 48 ProtocolIE-ID ::= 49 ProtocolIE-ID ::= 50 ProtocolIE-ID ::= 51 ProtocolIE-ID ::= 52 ProtocolIE-ID ::= 53 ProtocolIE-ID ::= 54 ProtocolIE-ID ::= 59 ProtocolIE-ID ::= 60 ProtocolTE-TD := 61ProtocolIE-ID ::= 62 ProtocolIE-ID ::= 63 ProtocolIE-ID ::= 64 ProtocolIE-ID ::= 67 ProtocolIE-ID ::= 68 ProtocolIE-ID ::= 69 ProtocolIE-ID ::= 12 ProtocolIE-ID ::= 70 ProtocolIE-ID ::= 71 ProtocolIE-ID ::= 72 ProtocolIE-ID ::= 73 ProtocolIE-ID ::= 74 ProtocolIE-ID ::= 82 ProtocolIE-ID ::= 83 ProtocolIE-ID ::= 41 ProtocolIE-ID ::= 84 ProtocolIE-ID ::= 85 ProtocolIE-ID ::= 90 ProtocolIE-ID ::= 91 ProtocolIE-ID ::= 92 ProtocolTE-TD := 57ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 95 ProtocolIE-ID ::= 102 ProtocolIE-ID ::= 103 ProtocolIE-ID ::= 17 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 109 ProtocolIE-ID ::= 110

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id-RL-Information-PhyChReconfRqstTDD id-RL-Information-RL-AdditionRgstFDD id-RL-Information-RL-AdditionRgstTDD 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-RL-CongestInd id-RL-InformationItem-DM-Rprt id-RL-InformationItem-DM-Rgst id-RL-InformationItem-DM-Rsp id-RL-InformationItem-RL-PreemptRequiredInd id-RL-InformationItem-RL-SetupRqstFDD id-RL-InformationList-RL-CongestInd id-RL-InformationList-RL-AdditionRgstFDD id-RL-InformationList-RL-DeletionRgst id-RL-InformationList-RL-PreemptRequiredInd 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-ReconfRspFDD id-RL-InformationResponseItem-RL-SetupRspFDD id-RL-InformationResponseList-RL-AdditionRspFDD id-RL-InformationResponseList-RL-ReconfReadyFDD id-RL-InformationResponseList-RL-ReconfRspFDD id-RL-InformationResponse-RL-ReconfRspTDD id-RL-InformationResponseList-RL-SetupRspFDD id-RL-ReconfigurationFailure-RL-ReconfFail id-RL-Set-InformationItem-DM-Rprt id-RL-Set-InformationItem-DM-Rgst id-RL-Set-InformationItem-DM-Rsp id-RL-Set-Information-RL-FailureInd id-RL-Set-Information-RL-RestoreInd id-ReportCharacteristics id-Reporting-Object-RL-FailureInd id-Reporing-Object-RL-RestoreInd id-S-RNTT id-ResetIndicator id-RNC-ID id-SAI id-SRNC-ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD id-TransportBearerID id-TransportBearerRequestIndicator

id-TransportLayerAddress

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ProtocolIE-ID ::= 111 ProtocolIE-ID ::= 112 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 114 ProtocolIE-ID ::= 115 ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 118 ProtocolIE-ID ::= 119 ProtocolIE-ID ::= 55 ProtocolIE-ID ::= 120 ProtocolIE-ID ::= 121 ProtocolIE-ID ::= 122 ProtocolIE-ID ::= 2 ProtocolIE-ID ::= 123 ProtocolIE-ID ::= 56 ProtocolIE-ID ::= 124 ProtocolIE-ID ::= 125 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 126 ProtocolIE-ID ::= 127 ProtocolIE-ID ::= 128 ProtocolIE-ID ::= 129 ProtocolIE-ID ::= 130 ProtocolIE-ID ::= 131 ProtocolIE-ID ::= 132 ProtocolIE-ID ::= 133 ProtocolIE-ID ::= 134 ProtocolIE-ID ::= 135 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 28 ProtocolIE-ID ::= 137 ProtocolIE-ID ::= 141 ProtocolIE-ID ::= 143 ProtocolIE-ID ::= 144 ProtocolIE-ID ::= 145 ProtocolIE-ID ::= 146 ProtocolIE-ID ::= 147 ProtocolIE-ID ::= 152 ProtocolIE-ID ::= 153 ProtocolIE-ID ::= 154 ProtocolTE-TD ::= 155ProtocolIE-ID ::= 244 ProtocolIE-ID ::= 245 ProtocolIE-ID ::= 156 ProtocolIE-ID ::= 157 ProtocolIE-ID ::= 159 ProtocolIE-ID ::= 160 ProtocolIE-ID ::= 163 ProtocolIE-ID ::= 164 ProtocolIE-ID ::= 165

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id-TypeOfError id-UC-ID id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD id-UL-CCTrCH-InformationList-RL-SetupRgstTDD id-UL-CCTrCH-InformationListIE-PhyChReconfRgstTDD id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD id-UL-DPCH-Information-RL-ReconfPrepFDD id-UL-DPCH-Information-RL-ReconfRqstFDD id-UL-DPCH-Information-RL-SetupRqstFDD id-UL-DPCH-InformationItem-PhyChReconfRqstTDD id-UL-DPCH-InformationItem-RL-AdditionRspTDD id-UL-DPCH-InformationItem-RL-SetupRspTDD id-UL-DPCH-InformationAddListIE-RL-ReconfReadvTDD id-UL-SIRTarget id-URA-Information id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD id-Active-Pattern-Sequence-Information id-AdjustmentRatio id-CauseLevel-RL-AdditionFailureFDD id-CauseLevel-RL-AdditionFailureTDD id-CauseLevel-RL-ReconfFailure id-CauseLevel-RL-SetupFailureFDD id-CauseLevel-RL-SetupFailureTDD id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD id-DSCHs-to-Add-TDD id-DSCHs-to-Add-FDD id-DSCH-DeleteList-RL-ReconfPrepTDD id-DSCH-Delete-RL-ReconfPrepFDD id-DSCH-FDD-Information id-DSCH-InformationListIE-RL-AdditionRspTDD id-DSCH-InformationListIEs-RL-SetupRspTDD id-DSCH-TDD-Information id-DSCH-FDD-InformationResponse id-DSCH-Information-RL-SetupRqstFDD id-DSCH-ModifyList-RL-ReconfPrepTDD id-DSCH-Modify-RL-ReconfPrepFDD id-DSCHsToBeAddedOrModified-FDD

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ProtocolIE-ID ::= 140 ProtocolIE-ID ::= 166 ProtocolIE-ID ::= 167 ProtocolIE-ID ::= 169 ProtocolIE-ID ::= 171 ProtocolIE-ID ::= 172 ProtocolIE-ID ::= 173 ProtocolIE-ID ::= 174 ProtocolIE-ID ::= 175 ProtocolIE-ID ::= 176 ProtocolIE-ID ::= 177 ProtocolIE-ID ::= 178 ProtocolIE-ID ::= 179 ProtocolIE-ID ::= 180 ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 182 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 188 ProtocolIE-ID ::= 189 ProtocolIE-ID ::= 190 ProtocolIE-ID ::= 193 ProtocolIE-ID ::= 194 ProtocolIE-ID ::= 197 ProtocolIE-ID ::= 198 ProtocolIE-ID ::= 199 ProtocolIE-ID ::= 200 ProtocolIE-ID ::= 201 ProtocolIE-ID ::= 205 ProtocolIE-ID ::= 206 ProtocolIE-ID ::= 207 ProtocolIE-ID ::= 208 ProtocolIE-ID ::= 209 ProtocolIE-ID ::= 210 ProtocolIE-ID ::= 212 ProtocolIE-ID ::= 213 ProtocolIE-ID ::= 214 ProtocolIE-ID ::= 215 ProtocolIE-ID ::= 216 ProtocolIE-ID ::= 217 ProtocolTE-TD ::= 218ProtocolIE-ID ::= 219 ProtocolIE-ID ::= 220 ProtocolIE-ID ::= 221 ProtocolIE-ID ::= 222 ProtocolIE-ID ::= 223 ProtocolIE-ID ::= 226 ProtocolIE-ID ::= 227 ProtocolIE-ID ::= 228 ProtocolIE-ID ::= 229

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id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD id-EnhancedDSCHPC id-EnhancedDSCHPCIndicator id-GA-Cell id-GA-CellAdditionalShapes id-SSDT-CellIDforEDSCHPC id-Transmission-Gap-Pattern-Sequence-Information id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD id-UL-DPCH-InformationModifvListIE-RL-ReconfReadvTDD id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD id-USCHs-to-Add id-USCH-DeleteList-RL-ReconfPrepTDD id-USCH-InformationListIE-RL-AdditionRspTDD id-USCH-InformationListIEs-RL-SetupRspTDD id-USCH-Information id-USCH-ModifyList-RL-ReconfPrepTDD id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD id-DL-Physical-Channel-Information-RL-SetupRqstTDD id-UL-Physical-Channel-Information-RL-SetupRgstTDD id-ClosedLoopModel-SupportIndicator id-ClosedLoopMode2-SupportIndicator id-STTD-SupportIndicator id-CFNReportingIndicator id-CNOriginatedPage-PagingRgst id-InnerLoopDLPCStatus id-PropagationDelay id-RxTimingDeviationForTA id-timeSlot-ISCP id-CCTrCH-InformationItem-RL-FailureInd id-CCTrCH-InformationItem-RL-RestoreInd id-CommonMeasurementAccuracy id-CommonMeasurementObjectType-CM-Rprt id-CommonMeasurementObjectType-CM-Rqst id-CommonMeasurementObjectType-CM-Rsp id-CommonMeasurementType id-CongestionCause id-SFN id-SFNReportingIndicator id-InformationExchangeID id-InformationExchangeObjectType-InfEx-Rprt id-InformationExchangeObjectType-InfEx-Rgst id-InformationExchangeObjectType-InfEx-Rsp id-InformationReportCharacteristics

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ProtocolIE-ID ::= 230 ProtocolIE-ID ::= 29 ProtocolIE-ID ::= 34 ProtocolIE-ID ::= 232 ProtocolIE-ID ::= 3 ProtocolIE-ID ::= 35 ProtocolIE-ID ::= 255 ProtocolIE-ID ::= 256 ProtocolIE-ID ::= 257 ProtocolIE-ID ::= 258 ProtocolIE-ID ::= 259 ProtocolIE-ID ::= 260 ProtocolIE-ID ::= 261 ProtocolIE-ID ::= 262 ProtocolIE-ID ::= 263 ProtocolIE-ID ::= 264 ProtocolIE-ID ::= 265 ProtocolIE-ID ::= 266 ProtocolIE-ID ::= 267 ProtocolIE-ID ::= 268 ProtocolIE-ID ::= 269 ProtocolIE-ID ::= 270 ProtocolIE-ID ::= 271 ProtocolIE-ID ::= 272 ProtocolIE-ID ::= 273 ProtocolIE-ID ::= 274 ProtocolIE-ID ::= 275 ProtocolIE-ID ::= 276 ProtocolIE-ID ::= 277 ProtocolIE-ID ::= 279 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24 ProtocolIE-ID ::= 25 ProtocolIE-ID ::= 36 ProtocolIE-ID ::= 37 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 280 ProtocolIE-ID ::= 281 ProtocolIE-ID ::= 282 ProtocolTE-TD ::= 283ProtocolIE-ID ::= 284 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 285 ProtocolIE-ID ::= 286 ProtocolIE-ID ::= 287 ProtocolIE-ID ::= 288 ProtocolIE-ID ::= 289 ProtocolIE-ID ::= 290 ProtocolIE-ID ::= 291

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id-InformationType id-neighbouring-LCR-TDD-CellInformation id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRgstTDD id-RL-LCR-InformationResponse-RL-SetupRspTDD id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD id-USCH-LCR-InformationListIEs-RL-SetupRspTDD id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRqstTDD id-RL-LCR-InformationResponse-RL-AdditionRspTDD id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadvTDD id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD id-UL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD id-DL-Timeslot-LCR-InformationList-PhyChReconfRastTDD id-timeSlot-ISCP-LCR-List-DL-PC-Rgst-TDD id-TSTD-Support-Indicator-RL-SetupRqstTDD id-RestrictionStateIndicator id-Load-Value id-Load-Value-IncrDecrThres id-OnModification id-Received-Total-Wideband-Power-Value id-Received-Total-Wideband-Power-Value-IncrDecrThres id-SFNSFNMeasurementThresholdInformation id-Transmitted-Carrier-Power-Value id-Transmitted-Carrier-Power-Value-IncrDecrThres id-TUTRANGPSMeasurementThresholdInformation id-UL-Timeslot-ISCP-Value id-UL-Timeslot-ISCP-Value-IncrDecrThres id-Rx-Timing-Deviation-Value-LCR id-DPC-Mode-Change-SupportIndicator

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ProtocolIE-ID ::= 292 ProtocolIE-ID ::= 58 ProtocolIE-ID ::= 65 ProtocolIE-ID ::= 66 ProtocolIE-ID ::= 75 ProtocolIE-ID ::= 76 ProtocolIE-ID ::= 77 ProtocolIE-ID ::= 78 ProtocolIE-ID ::= 79 ProtocolIE-ID ::= 80 ProtocolIE-ID ::= 81 ProtocolIE-ID ::= 86 ProtocolIE-ID ::= 87 ProtocolIE-ID ::= 88 ProtocolIE-ID ::= 89 ProtocolIE-ID ::= 94 ProtocolIE-ID ::= 96 ProtocolIE-ID ::= 97 ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolTE-TD := 101ProtocolIE-ID ::= 104 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 106 ProtocolIE-ID ::= 138 ProtocolIE-ID ::= 139 ProtocolIE-ID ::= 142 ProtocolIE-ID ::= 233 ProtocolIE-ID ::= 234 ProtocolIE-ID ::= 235 ProtocolIE-ID ::= 236 ProtocolIE-ID ::= 237 ProtocolIE-ID ::= 238 ProtocolIE-ID ::= 239 ProtocolIE-ID ::= 240 ProtocolIE-ID ::= 241 ProtocolIE-ID ::= 242 ProtocolIE-ID ::= 243 ProtocolIE-ID ::= 293 ProtocolIE-ID ::= 19

END

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		CHAN	IGE R	EQ	UES	Т			CR-Form-v3
ж	<mark>25.423</mark>	CR <mark>569</mark>	ж	rev	<mark>1</mark> ^អ	Current vers	sion:	4.3.0	ж
For <u>HELP</u> on us	ing this for	m, see bottom	of this pa	ge or l	ook at i	the pop-up text	over	the ¥ syr	mbols.
Proposed change an	ffects: ೫	(U)SIM	ME/UE		Radio /	Access Networ	k <mark>X</mark>	Core Ne	etwork
Title: ដ <mark>៤</mark>	Uplink SIR	Target in RL S	Setup Res	ponse	TDD				
Source: ೫	Siemens	<u>R-WG3</u>							
Work item code: %	TEI					Date: ೫	Feb	oruary 200)2
Category: ೫	C					Release: ೫	REI	L-5	
Reason for change: Summary of change	Use <u>one</u> of t F (esse A (corr B (Add C (Fun D (Edit Detailed exp be found in 3 3 Uplink the SR DRNC value p 2 : 3 A list of DCHs, i TDD. Pr and the Rev.1: P	he following cate ential correction, responds to a co- lition of feature), actional modification lanations of the 3GPP TR 21.900 Power Control NC should reco- to rather than jue per Radio Link UL SIR Targer s added as an rocedure text is existing IE at 1 rocedure text reco-	egories:) prrection in tion of feat n) above cate 0. I for TDD ceive a list ist one val to the SR t CCTrCH optional p s added w Radio Linl worded.	an earl ure) egories is done of ind ue. Ho NC. value: c level.	ier relea can e for ea ividual owever s, one f eter into xplains	Use <u>one</u> of 2 nse) R96 R97 R98 R99 REL-4 REL-5 ch UL CCTrCH initial UL SIR ta currently the D for each UL CC the RL Setup the interaction	the fol (GSM (Relea (Re	llowing rele 1 Phase 2) ase 1996) ase 1997) ase 1998) ase 1999) ase 4) ase 5) ridually. T values fro provides that carri onse mes een the n	herefore om the just one ies ssage ew IE
Consequences if not approved:	lf this (values the Ou	CR is not appro for individual I ter Loop powe	oved, it is UL CCTrC e <mark>r control.</mark>	not po CHs in	ssible t TDD, w	o apply differen hich is an unn	nt initia ecessa	al UL SIR ary restric	Target ction of
Clauses affected:	8 <mark>8.3.1.2,</mark>	9.1.4.2, 9.3.3,	9.3.6						
Other specs affected:	الا Te O	her core speci est specification &M Specification	fications ns ons	ж					
Other comments:	9								

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G_Specs/CRs.htm</u>. Below is a brief summary:

1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.

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

3

8.3.1 Radio Link Setup

8.3.1.1 General

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

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

8.3.1.2 Successful Operation



Figure 5: Radio Link Setup procedure: Successful Operation

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

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

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

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

Transport Channels Handling:

DCH(s):

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

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

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

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

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

The *Frame Handling Priority* IE defines the priority level that should be used by the DRNS to prioritise between different frames of the data frames of the DCHs in the downlink on the radio interface in congestion situations once the new RL(s) have been activated.

If the *DCH Specific Info* IE in the *DCH Information* IE includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:

- If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.
- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the downlink of the DCH.

DSCH(s):

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

[TDD - USCH(s)]:

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

Physical Channels Handling:

[FDD - Compressed Mode]:

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the DRNS shall use the information to activate the indicated Transmission Gap Pattern Sequences(s) in the new RL. The received *CM Configuration Change CFN* IE refers to latest passed CFN with that value. The DRNS shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the DRNS shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the DRNS shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]

- [FDD - For all other Transmission Gap Pattern Sequences included in the *Active Pattern Sequence Information* IE, the DRNS shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE for the Transmission Gap Pattern Sequence.] [FDD- If the *Downlink Compressed Mode Method* IE in one or more Transmission Gap Pattern Sequence is set to 'SF/2' in the RADIO LINK SETUP REQUEST message, the DRNS shall include the *Transmission Gap Pattern Sequence Scrambling Code Information* IE in the RADIO LINK SETUP RESPONSE message indicating for each DL Channelisation Code whether the alternative scrambling code shall be used or not.]

[FDD - DL Code Information]:

[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*".]

General:

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

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

Radio Link Handling:

Diversity Combination Control:

[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 *Diversity Control Field* IE is set to "Must not", the DRNS shall not combine the RL with any other existing RL.]

[FDD - In the case of combining one or more RLs the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message with the *Diversity Indication* IE that the RL is combined with another RL RL for all RLs but the first 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 not be included for the first of the combined RLs, for which the *Transport Layer Address* IE and the *Binding ID* IE shall be included.]

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

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

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

[FDD-Transmit Diversity]:

[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.]

[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 Indicator* IE].

DL Power Control:

[FDD - If both the *Initial DL TX Power* IE and *Uplink SIR Target* IE are included 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 constrains 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. The DRNS shall not transmit with a higher power than indicated by the *Maximum DL TX Power IE* or lower than indicated by the *Minimum DL TX Power IE* on any DL DPCH of the RL except during compressed mode, when the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

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

[TDD – The DRNC shall use the *Uplink SIR Target CCTrCH* IEs in the RADIO LINK SETUP RESPONSE message to indicate for any UL CCTrCH an Uplink SIR Target value in case this is deviating from the value included in the *Uplink SIR Target* IE specified for the Radio Link. If in any [3.84Mcps TDD - *UL CCTrCH Information* IE] [1.28Mcps TDD - *UL CCTrCH Information LCR* IE] the *Uplink SIR Target CCTrCH* IE is not included, the value of the *Uplink SIR Target* IE shall apply to the respective UL CCTrCH.]

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

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

[FDD – 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 on the Uu interface for the concerning RLS or Power Balancing is activated. No inner loop 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) and the power control procedure (see 8.3.7).]

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

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

[FDD - If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the DRNC shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the life time of the RL. If the *DPC Mode* IE is not present in the RADIO LINK SETUP REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]

Neighbouring Cell Handling:

If there are UMTS neighbouring cell(s) to the cell in which a Radio Link was established then:

- The DRNC shall include the Neighbouring FDD Cell Information IE and/or Neighbouring TDD Cell Information IE in the Neighbouring UMTS Cell Information IE for each neighbouring FDD cell and/or TDD cell respectively. In addition, if the information is available, the DRNC shall include the Frame Offset IE, Primary CPICH Power IE, Cell Individual Offset IE, STTD Support Indicator IE, Closed Loop Mode1 Support Indicator IE and Closed Loop Mode2 Support Indicator IE in the Neighbouring FDD Cell Information IE, and the Frame Offset IE, Cell Individual Offset IE, DPCH Constant Value IE and the PCCPCH Power IE in the Neighbouring TDD Cell Information IE.
- If a UMTS neighbouring cell is not controlled by the same DRNC, the DRNC shall also include the *CN PS Domain Identifier* IE and/or *CN CS Domain Identifier* IE which are the identifiers of the CN nodes connected to the RNC controlling the UMTS neighbouring cell.
- [FDD The DRNC shall include the *DPC Mode Change Support Indicator* IE if the DRNC is aware that the neighbouring cell supports DPC mode change.]

For the UMTS neighbouring cells which are controlled by the DRNC, the DRNC shall report in the RADIO LINK SETUP RESPONSE message the restriction state of those cells, otherwise *Restriction state indicator* IE may be absent. The DRNC shall include the *Restriction state indicator* IE for the neighbouring cells which

are controlled by the DRNC in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.

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

General:

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity for EDSCHPC IE, the DRNS shall activate enhanced DSCH power control, if supported, using the SSDT Cell Identity for EDSCHPC IE and SSDT Cell Identity Length IE as well as Enhanced DSCH PC IE in accordance with ref. [10] subclause 5.2.2. If the RADIO LINK SETUP REQUEST message includes both SSDT Cell Identity IE and SSDT Cell Identity for EDSCHPC IE, then the DRNS shall ignore the SSDT Cell Identity for EDSCHPC IE.]

[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 DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link established in a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK SETUP RESPONSE message.]

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

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

[TDD – If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include the *UARFCN* IE, the *Cell Parameter ID* IE,[3.84Mcps TDD - the *Sync Case* IE, the *SCH Time Slot* IE,] the *SCTD Indicator* IE, and the *PCCPCH Power* IE in the RADIO LINK SETUP RESPONSE message.]

[TDD - The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response* IE or *USCH Information Response* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the [3.84Mcps TDD - *Secondary CCPCH Info TDD* IE] [1.28Mcps TDD – *Secondary CCPCH Info TDD LCR* IE] in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response* IE or *USCH Information Response* IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

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

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE and the UTRAN access point position for each of the established RLs in the RADIO LINK SETUP RESPONSE message.

If the DRNS need to limit the user rate in the uplink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed UL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK SETUP RESPONSE message for this Radio Link.

If the DRNS need to limit the user rate in the downlink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed DL Rate* IE of the *Allowed Rate Information* IE in the *DCH*

Information Response IE for this DCH in the RADIO LINK SETUP RESPONSE message for this Radio Link.

If the *Permanent NAS UE Identity* IE is included in the RADIO LINK SETUP REQUEST message, the DRNS shall store the information for the considered UE Context for the life-time of the UE Context.

If the RADIO LINK SETUP REQUEST message includes the *Permanent NAS UE Identity* IE and a *C-ID* IE corresponding to a cell reserved for operator use, the DRNC shall use this information to determine whether it can set up a Radio Link on this cell or not for the considered UE Context.

[FDD - Radio Link Set Handling]:

[FDD - The *First RLS Indicator* IE indicates if the concerning RL shall be considered part of the first RLS established towards this UE. The *First RLS Indicator* IE shall be used by the DRNS to determine the initial TPC pattern in the DL of the concerning RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.

[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 –The UL Uu synchronisation detection algorithm defined in ref. [10] subclause 4.3 shall for each of the established RL Set(s) use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set].

Response Message:

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 established.

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

/* partly omitted */

9.1.4 RADIO LINK SETUP RESPONSE

9.1.4.1 FDD Message

9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
			and	description		Criticality
			reference			
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		_	
D-RNTI	0		9.2.1.24		YES	ignore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
RL Information Response		01		Mandatory	YES	ignore
				For		
				3.84Mcps		
				TDD only		
>RL ID	М		9.2.1.49		—	
>URA Information	0		9.2.1.70B		_	
>SAI	Μ		9.2.1.52		—	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point	0		9.2.1.70A		-	
Position						
>UL Time Slot ISCP Info	Μ		9.2.3.13D		_	
>Maximum Uplink SIR	Μ		Uplink SIR		-	
			9.2.1.69			
>Minimum Uplink SIR	Μ		Uplink SIR		_	
			9.2.1.69			
>Maximum Allowed UL Tx	Μ		9.2.1.35		_	
Power						
>Maximum DL TX Power	Μ		DL Power		_	
			9.2.1.21A			
>Minimum DL TX Power	Μ		DL Power		_	
			9.2.1.21A			
>UARFCN	0		UARFCN	Corresponds	_	
			9.2.1.66	to Nt in ref.		
				[7]		
>Cell Parameter ID	0		9.2.1.8		_	
>Sync Case	0		9.2.1.54		_	
>SCH Time Slot	C-Case2		9.2.1.51		_	
>Block STTD Indicator	0		9.2.3.A		_	
>PCCPCH Power	М		9.2.1.43		_	
>Timing Advance Applied	Μ		9.2.3.12A		_	
>Alpha Value	М		9.2.3.a		_	
>UL PhysCH SF Variation	М		9.2.3.13B		_	
>Synchronisation	M		9.2.3.7E		_	
Configuration						
>Secondary CCPCH Info	0		9.2.3.7B		_	
TDD	-					
>UL CCTrCH Information		0 <maxno< td=""><td></td><td>For DCH</td><td>GLOBAL</td><td>ignore</td></maxno<>		For DCH	GLOBAL	ignore
		ofCCTrCH				5
		S>				
>>CCTrCH ID	М		9.2.3.2		_	
>>UL DPCH Information		01			YES	ignore
>>>Repetition Period	М		9.2.3.7		_	J
>>>Repetition Length	Μ		9.2.3.6		_	
>>>TDD DPCH Offset	M		9.2.3.8A		_	
>>>UL Timeslot	M		9.2.3.13C		_	
Information			0.2.01100			
>>Uplink SIR Target	0	1	Uplink SIR		YES	ignore
CCTrCH	-		9.2.1.69		<u> </u>	<u></u>
>DL CCTrCH Information	1	0 <maxno< td=""><td></td><td>For DCH</td><td>GLOBAL</td><td>ignore</td></maxno<>		For DCH	GLOBAL	ignore
		ofCCTrCH				
		s>				

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>CCTrCH ID	М	0.4	9.2.3.2		-	·
>>DL DPCH Information	NA	01	0.2.2.7		TES	Ignore
>>>Repetition Length	M		9.2.3.7			
	M		9.2.3.0			
	M		92320			
Information			0.2.0.20			
>DCH Information Response	0	0	9.2.1.16A		YES	ignore
>DSCH Information Response		0 <maxnoof DSCHs></maxnoof 			GLOBAL	ignore
>>DSCH ID	М		9.2.1.26A		—	
>DSCH Flow Control Information	Μ		9.2.1.26B		-	
>>Binding ID	0		9.2.1.3		_	
>>Transport Layer Address	0		9.2.1.62		_	
>>Transport Format Management	М		9.2.3.13		-	
>USCH Information		0			GLOBAL	ignore
Response		<maxnoof USCHs></maxnoof 				9
>>USCH ID	М		9.2.3.14		_	
>>Binding ID	0		9.2.1.3		_	
>>Transport Layer Address	0		9.2.1.62		_	
>>Transport Format Management	М		9.2.3.13		_	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		_	
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
RL Information Response LCR		01		Mandatory For 1.28Mcps	YES	ignore
>BL ID	M		92149	TEE Only	_	
>URA Information	M		92170B		_	
>SAI	M		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point Position	0		9.2.1.70A		_	
>UL Time Slot ISCP Info	М		9.2.3.13H		-	
>Maximum Uplink SIR	М		Uplink SIR		-	
>Minimum Uplink SIR	М		Uplink SIR		-	
>Maximum Allowed UL Tx	М		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		-	
>Minimum DL TX Power	М		DL Power		-	
>UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nt in ref. [7]	-	
>Cell Parameter ID	0		9.2.1.8	• •	_	
>Block STTD Indicator	0		9.2.3.A		_	
>PCCPCH Power	M		9.2.1.43		-	
SIII PhysCH SE Variation	M		3.2.3.d			
>Synchronisation Configuration	M		9.2.3.7E		-	

IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
			and reference	description		Criticality
>Secondary CCPCH Info	0		9.2.3.7F		_	
>UL CCTrCH Information		0 <maxno< td=""><td></td><td>For DCH</td><td>GLOBAL</td><td>ignore</td></maxno<>		For DCH	GLOBAL	ignore
LCR		ofCCTrCH sLCR>				
>>CCTrCH ID	М		9.2.3.2		_	
>>UL DPCH Information LCR		01			YES	ignore
>>>Repetition Period	M		9.2.3.7		-	
>>>Repetition Length	M		9.2.3.6		_	
>>>IDD DPCH Offset	M		9.2.3.8A		-	
>>>UL Timeslot Information LCR	M		9.2.3.13G		-	
>>Uplink SIR Target CCTrCH	<u>0</u>		<u>Uplink SIR</u> 9.2.1.69		<u>YES</u>	ignore
>DL CCTrCH Information LCR		0 <maxno ofCCTrCH sLCR></maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		_	
>>DL DPCH Information LCR		01			YES	ignore
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	М		9.2.3.6		-	
>>>TDD DPCH Offset	M		9.2.3.8A		-	
>>>DL Timeslot Information LCR	М		9.2.3.2E			
>>TSTD Indicator	M		9.2.3.13E		_	
>DCH Information Response	0		9.2.1.16A		YES	ignore
Response LCR		0 <maxnoof DSCHsLC R></maxnoof 			GLOBAL	ignore
>>DSCH ID	М		9.2.1.26A		_	
>>DSCH Flow Control Information	М		9.2.1.26B		_	
>>Binding ID	0		9.2.1.3		-	
>>Transport Layer Address	0		9.2.1.62		_	
>>Transport Format Management	M		9.2.3.13		-	
>USCH Information		0			GLOBAL	ignore
Response LCR		<maxnoof USCHsLC</maxnoof 				0
>>USCH ID	М	~~	92314		_	
>>Binding ID	0		9.2.1.3		_	
>>Transport Laver	0		9.2.1.62		-	
Address						
>>Transport Format Management	М		9.2.3.13		_	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
Uplink SIR Target	М		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
Case2	The IE shall be present if Sync Case IE is equal to "Case2".
Range bound	Explanation
-------------------	---
MaxnoofDSCHs	Maximum number of DSCHs for one UE for 3.84Mcps TDD.
MaxnoofUSCHs	Maximum number of USCHs for one UE for 3.84Mcps TDD.
MaxnoofCCTrCHs	Maximum number of CCTrCH for one UE for 3.84Mcps TDD.
MaxnoofDSCHsLCR	Maximum number of DSCHs for one UE for 1.28Mcps TDD.
MaxnoofUSCHsLCR	Maximum number of USCHs for one UE for 1.28Mcps TDD.
MaxnoofCCTrCHsLCR	Maximum number of CCTrCH for one UE for 1.28Mcps TDD.

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9.3.3 PDU Definitions

/* partly omitted */

id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-Information-RL-ReconfPrepFDD, id-UL-DPCH-Information-RL-ReconfRqstFDD, id-UL-DPCH-Information-RL-SetupRgstFDD, id-UL-DPCH-InformationItem-PhyChReconfRqstTDD, id-UL-DPCH-InformationItem-RL-AdditionRspTDD, id-UL-DPCH-InformationItem-RL-SetupRspTDD, id-UL-DPCH-InformationAddListIE-RL-ReconfReadvTDD, id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadvTDD, id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD, id-UL-Physical-Channel-Information-RL-SetupRqstTDD, id-UL-SIRTarget, id-URA-Information, id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD. id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD, id-USCHs-to-Add, id-USCH-DeleteList-RL-ReconfPrepTDD, id-USCH-InformationListIE-RL-AdditionRspTDD, id-USCH-InformationListIEs-RL-SetupRspTDD, id-USCH-Information, id-USCH-ModifyList-RL-ReconfPrepTDD, id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRgstTDD, id-RL-LCR-InformationResponse-RL-SetupRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD, id-USCH-LCR-InformationListIEs-RL-SetupRspTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRgstTDD, id-RL-LCR-InformationResponse-RL-AdditionRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD, id-DL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD, id-TSTD-Support-Indicator-RL-SetupRqstTDD,

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id-UL-SIR-Target-CCTrCH-InformationItem-RL-SetupRspTDD, id-UL-SIR-Target-CCTrCH-LCR-InformationItem-RL-SetupRspTDD

FROM RNSAP-Constants;

/* partly omitted */

-- RADIO LINK SETUP RESPONSE TDD _ _ RadioLinkSetupResponseTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupResponseTDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupResponseTDD-Extensions}} OPTIONAL, . . . ļ 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 optional } --Mandatory for 3.84Mcps TDD only CRITICALITY ignore TYPE UL-SIR mandatory } { ID id-UL-SIRTarget PRESENCE { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE { rL-ID RL-ID, uRA-Information URA-Information OPTIONAL, sAI SAI, qA-Cell GA-Cell OPTIONAL, gA-AccessPointPosition GA-AccessPointPosition OPTIONAL, ul-TimeSlot-ISCP-Info UL-TimeSlot-ISCP-Info, maxUL-SIR UL-SIR, minUL-STR UL-SIR, MaximumAllowedULTxPower, maximumAllowedULTxPower maximumDLTxPower DL-Power, minimumDLTxPower DL-Power, uARFCNforNt OPTIONAL, UARFCN cellParameterID CellParameterID OPTIONAL, syncCase SyncCase OPTIONAL,

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                                                                       3GPP TS 25.423 v.4.3.0 (2001-12)
    sCH-TimeSlot
                                SCH-TimeSlot
                                                     OPTIONAL.
    -- This IE shall be present if Sync Case IE is Case2. --
    block-STTD-Indicator
                                Block-STTD-Indicator
                                                        OPTIONAL,
    pCCPCH-Power
                                PCCPCH-Power,
    timingAdvanceApplied
                                TimingAdvanceApplied,
    alphaValue
                                AlphaValue,
    ul-PhysCH-SF-Variation
                                UL-PhysCH-SF-Variation,
    synchronisationConfiguration
                                        SynchronisationConfiguration,
    secondary-CCPCH-Info-TDD
                                        Secondary-CCPCH-Info-TDD
                                                                    OPTIONAL,
    ul-CCTrCHInformation
                                        UL-CCTrCHInformationList-RL-SetupRspTDD
                                                                                     OPTIONAL.
    dl-CCTrCHInformation
                                        DL-CCTrCHInformationList-RL-SetupRspTDD
                                                                                     OPTIONAL,
    dCH-InformationResponse
                                        DCH-InformationResponseList-RL-SetupRspTDD
                                                                                    OPTIONAL,
    dsch-InformationResponse
                                        DSCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    usch-InformationResponse
                                        USCH-InformationResponse-RL-SetupRspTDD OPTIONAL,
    neighbouring-UMTS-CellInformation
                                                Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
                                                Neighbouring-GSM-CellInformation OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD-ExtIEs } } OPTIONAL.
    . . .
RL-InformationResponse-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-GA-CellAdditionalShapes
                                            CRITICALITY ignore EXTENSION
                                                                            GA-CellAdditionalShapes
                                                                                                         PRESENCE optional },
    . . .
UL-CCTrCHInformationList-RL-SetupRspTDD ::= Protocolle-Single-Container {{UL-CCTrCHInformationListles-RL-SetupRspTDD}}
UL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-SetupRspTDD
                                                                                                                                 PRESENCE mandatory }
UL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-SetupRspTDD
UL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    ul-DPCH-Information
                                    UL-DPCH-InformationList-RL-SetupRspTDD
                                                                                 OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    . . .
UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    {ID id-UL-SIR-Target-CCTrCH-InformationItem-RL-SetupRspTDD
                                                                     CRITICALITY ignore
                                                                                             EXTENSION UL-SIR
                                                                                                                  PRESENCE optional },
UL-DPCH-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {UL-DPCH-InformationListIEs-RL-SetupRspTDD } }
UL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationItem-RL-SetupRspTDD
                                                         CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-SetupRspTDD PRESENCE mandatory }
UL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
```

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

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    { ID id-DCH-InformationResponse CRITICALITY ignore
                                                            TYPE DCH-InformationResponse PRESENCE mandatory }
DSCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DSCH-InformationList-RL-SetupRspTDD}}
DSCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationListIEs-RL-SetupRspTDD
                                                        CRITICALITY ignore TYPE DSCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory }
ļ
DSCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-SetupRspTDD
DSCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dsch-ID
                            DSCH-ID.
    dSCH-FlowControlInformation
                                    DSCH-FlowControlInformation.
    bindingID
                            BindingID OPTIONAL,
                           TransportLayerAddress
                                                   OPTIONAL,
    transportLayerAddress
    transportFormatManagement TransportFormatManagement,
    iE-Extensions
                            ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    . . .
DSCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
USCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{USCH-InformationList-RL-SetupRspTDD}}
USCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationListIEs-RL-SetupRspTDD
                                                        CRITICALITY ignore TYPE USCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory }
USCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-SetupRspTDD
USCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    usch-ID
                                USCH-ID,
    bindingID
                                BindingID OPTIONAL,
                                TransportLayerAddress
                                                        OPTIONAL,
    transportLayerAddress
    transportFormatManagement
                                TransportFormatManagement,
    iE-Extensions
                                ProtocolExtensionContainer { {USCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    . . .
USCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkSetupResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-RL-LCR-InformationResponse-RL-SetupRspTDD CRITICALITY ignore EXTENSION RL-LCR-InformationResponse-RL-SetupRspTDD
                                                                                                                                      PRESENCE
mandatory },
    --Mandatory for 1.28Mcps TDD only
    . . .
```

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RL-LCR-InformationResponse-RL-	SetupRspTDD ::= SEQUE	SNCE {		
rL-ID	RL-ID,			
uRA-Information	URA-Information,			
SAI	SAI,			
gA-Cell	GA-Cell OPTIONA	AL,		
gA-AccessPointPosition	GA-AccessPointPosit	tion OPTIONAL,		
ul-TimeSlot-ISCP-LCR-Info	UL-TimeSlot-ISCP-LC	CR-Info,		
maxUL-SIR	UL-SIR,			
minUL-SIR	UL-SIR,			
maximumAllowedULTxPower	MaximumAllowedULTxF	Power,		
maximumDLTxPower	DL-Power,			
minimumDLTxPower	DL-Power,			
uARFCNforNt	UARFCN	OPTIONAL,		
cellParameterID	CellParameterID	OPTIONAL,		
block-STTD-Indicator	Block-STTD-Indicatc	or OPTIONAL,		
pCCPCH-Power	PCCPCH-Power,			
alphaValue	AlphaValue,			
ul-PhysCH-SF-Variation	UL-PhysCH-SF-Variat	zion,		
synchronisationConfigurati	on Synchro	onisationConfiguration,		
secondary-LCR-CCPCH-Info-T	DD Seconda	ary-LCR-CCPCH-Info-TDD	OPTIONAL,	
ul-LCR-CCTrCHInformation	UL-LCR-	-CCTrCHInformationList-RL-SetupRspTDI	O OPTIONAL,	
dl-LCR-CCTrCHInformation	DL-LCR-	-CCTrCHInformationList-RL-SetupRspTDI	O OPTIONAL,	
dCH-InformationResponse	DCH-Inf	formationResponseList-RL-SetupRspTDD	OPTIONAL,	
dsch-LCR-InformationRespon	se DSCH-LC	CR-InformationResponse-RL-SetupRspTDI	O OPTIONAL,	
usch-LCR-InformationRespon	se USCH-LC	CR-InformationResponse-RL-SetupRspTDI	O OPTIONAL,	
neighbouring-UMTS-CellInfo	rmation Neighbo	ouring-UMTS-CellInformation	OPTIONAL,	
neighbouring-GSM-CellInfor	mation Neighbo	ouring-GSM-CellInformation	OPTIONAL,	
iE-Extensions	Protocc	olExtensionContainer { { RL-LCR-Info	<pre>rmationResponseList-RL-SetupRspTDD-ExtIEs} }</pre>	OPTIONAL,
			, ,	
}				
RL-LCR-InformationResponseList	-RL-SetupRspTDD-ExtIE	<pre>Ls RNSAP-PROTOCOL-EXTENSION ::= {</pre>		
•••				
}				
UL-LCR-CCTrCHInformationList-R	L-SetupRspTDD ::= Prc	otocolIE-Single-Container {{UL-LCR-CC	CTrCHInformationListIEs-RL-SetupRspTDD}}	
			,,	
UL-LCR-CCTrCHInformationListIE	s-RL-SetupRspTDD RNSA	AP-PROTOCOL-IES ::= {		
{ ID id-UL-CCTrCH-LCR-Info	ormationListIE-RL-Setu	upRspTDD CRITICALITY ignore TYPE U	L-LCR-CCTrCHInformationListIE-RL-SetupRspTDD	PRESENCE
mandatory }				
}				
,				
UL-LCR-CCTrCHInformationListIE	-RL-SetupRspTDD ::= S	SEQUENCE (SIZE (1maxNrOfCCTrCHsLCR))) OF UL-LCR-CCTrCHInformationItem-RL-SetupRsp:	ſDD
UL-LCR-CCTrCHInformationItem-R	L-SetupRspTDD ::= SEC	OUENCE {		
cCTrCH-ID	CCTrCH-ID,			
ul-DPCH-LCR-Information	UL-DPCH-LCR-Informa	ationList-RL-SetupRspTDD OPTION/	AL,	
iE-Extensions	ProtocolExtensionCc	ontainer { {UL-LCR-CCTrCHInformation	Item-RL-SetupRspTDD-ExtIEs} } OPTIONAL,	
• • •			· · · · · · · · · · · · · · · · · · ·	
}				
,				
UL-LCR-CCTrCHInformationItem-R	L-SetupRspTDD-ExtIEs	RNSAP-PROTOCOL-EXTENSION ::= {		
{ID id-UL-SIR-Target-CCTrCH-LC	R-InformationItem-RL-	-SetupRspTDD CRITICALITY ignore	EXTENSION UL-SIR PRESENCE optional },	

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

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                                    DL-TimeslotLCR-Information,
    dL-Timeslot-LCR-Information
    tSTD-Indicator
                                    TSTD-Indicator,
                                    ProtocolExtensionContainer { {DL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DSCH-LCR-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DSCH-LCR-InformationList-RL-SetupRspTDD}}
DSCH-LCR-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD
                                                            CRITICALITY ignore TYPE DSCH-LCR-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory }
ļ
DSCH-LCR-InformationListIEs-RL-SetupRspTDD ::= SEOUENCE (SIZE(0..maxNoOfDSCHsLCR)) OF DSCH-LCR-InformationItem-RL-SetupRspTDD
DSCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dsch-ID
                            DSCH-ID,
    dSCH-FlowControlInformation
                                    DSCH-FlowControlInformation,
    bindingID
                            BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress
                                                   OPTIONAL,
    transportFormatManagement TransportFormatManagement,
                            ProtocolExtensionContainer { {DSCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DSCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
USCH-LCR-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{USCH-LCR-InformationList-RL-SetupRspTDD}}
USCH-LCR-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-LCR-InformationListIEs-RL-SetupRspTDD
                                                            CRITICALITY ignore TYPE USCH-LCR-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory
USCH-LCR-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHsLCR)) OF USCH-LCR-InformationItem-RL-SetupRspTDD
USCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    usch-ID
                                USCH-ID,
    bindingID
                                BindingID OPTIONAL,
    transportLayerAddress
                                TransportLayerAddress OPTIONAL,
    transportFormatManagement
                               TransportFormatManagement,
                                ProtocolExtensionContainer { {USCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
USCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
3GPP
```

END

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/* partly omitted */

Constant Definitions 9.3.6 -- Constant definitions ___ ___ RNSAP-Constants { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-Constants (4) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN IMPORTS ProcedureCode, ProtocolIE-ID FROM RNSAP-CommonDataTypes; _ _ -- Elementary Procedures _ _ ***** id-commonTransportChannelResourcesInitialisation ProcedureCode ::= 0 id-commonTransportChannelResourcesRelease ProcedureCode ::= 1 id-compressedModeCommand ProcedureCode ::= 2id-downlinkPowerControl ProcedureCode ::= 3 id-downlinkPowerTimeslotControl ProcedureCode ::= 4id-downlinkSignallingTransfer ProcedureCode ::= 5 id-errorIndication ProcedureCode ::= 6 id-dedicatedMeasurementFailure ProcedureCode ::= 7 id-dedicatedMeasurementInitiation ProcedureCode ::= 8 ProcedureCode ::= 9 id-dedicatedMeasurementReporting id-dedicatedMeasurementTermination ProcedureCode ::= 10 id-paging ProcedureCode ::= 11 id-physicalChannelReconfiguration ProcedureCode ::= 12 id-privateMessage ProcedureCode ::= 13 id-radioLinkAddition ProcedureCode ::= 14 id-radioLinkCongestion ProcedureCode ::= 34 id-radioLinkDeletion ProcedureCode ::= 15 id-radioLinkFailure ProcedureCode ::= 16 id-radioLinkPreemption ProcedureCode ::= 17 id-radioLinkRestoration ProcedureCode ::= 18 id-radioLinkSetup ProcedureCode ::= 19 id-relocationCommit ProcedureCode ::= 20 id-synchronisedRadioLinkReconfigurationCancellation ProcedureCode ::= 21 id-synchronisedRadioLinkReconfigurationCommit ProcedureCode ::= 22 3GPP

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<pre>id-synchronisedRadioLinkReconfigurationI id-unSynchronisedRadioLinkReconfiguratio id-uplinkSignallingTransfer id-commonMeasurementFailure id-commonMeasurementInitiation id-commonMeasurementReporting id-commonMeasurementTermination id-informationExchangeFailure id-informationExchangeInitiation id-informationReporting id-informationExchangeTermination</pre>	Preparation ProcedureCode ::= 23 ProcedureCode ::= 24 ProcedureCode ::= 25 ProcedureCode ::= 25 ProcedureCode ::= 26 ProcedureCode ::= 27 ProcedureCode ::= 28 ProcedureCode ::= 29 ProcedureCode ::= 30 ProcedureCode ::= 31 ProcedureCode ::= 32 ProcedureCode ::= 33
************************************	* * * * * * * * * * * * * * * * * * * *
Lista	
************************************	* * * * * * * * * * * * * * * * * * * *
maxCodeNumComp-1	INTEGER ::= 255
maxRateMatching	INTEGER ::= 256
maxNoCodeGroups	INTEGER ::= 256
maxNoOfDSCHs	INTEGER ::= 10
maxNoOfDSCHsLCR	INTEGER ::= 10
maxNoOfRB	INTEGER ::= 32
maxNoOfUSCHs	INTEGER ::= 10
maxNoOfUSCHsLCR	INTEGER ::= 10
maxNoTFCIGroups	INTEGER ::= 256
maxNrOfTFCs	INTEGER ::= 1024
maxNrOfTFs	INTEGER ::= 32
maxNrOfCCTrCHs	INTEGER ::= 16
maxNrOfCCTrCHsLCR	INTEGER ::= 16
maxNrOfDCHs	INTEGER ::= 128
maxNrOfDL-Codes	INTEGER ::= 8
maxNrOfDPCHs	INTEGER ::= 240
maxNrOfDPCHsLCR	INTEGER ::= 240
maxNrOfErrors	INTEGER ::= 256
maxNrOfMACcshSDU-Length	INTEGER ::= 16
maxNrOfPoints	INTEGER ::= 15
maxNrOfRLs	INTEGER ::= 16
maxNrOfRLSets	INTEGER ::= maxNrOfRLs
maxNrOfRLs-1	INTEGER ::= 15 maxNrOfRLs - 1
maxNrOfRLs-2	INTEGER ::= 14 maxNrOfRLs - 2
maxNrOfULTs	INTEGER ::= 15
maxNrOfULTsLCR	INTEGER ::= 6
maxNrOfDLTs	INTEGER ::= 15
maxNrOfDLTsLCR	INTEGER ::= 6
maxRNCinURA-1	INTEGER ::= 15
maxTTI-Count	INTEGER ::= 4
maxCTFC	INTEGER ::= 16777215
maxNrOfNeighbouringRNCs	INTEGER ::= 10
maxNrOfFDDNeighboursPerRNC	INTEGER := 256
maxNrOfGSMNeighboursPerRNC	INTEGER ::= 256
maxNrOfTDDNeighbourgPerRNC	INTEGER ::= 256
"WATEL OF TODIC TAIDOUT DE CTIVINC	TUTTOTU ··- 200

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maxNrOfFACHs	INTEGER ::= 8	
maxNrOfLCRTDDNeighboursPerRNC	INTEGER ::= 25	6
maxFACHCountPlus1	INTEGER ::= 10	
maxIBSEG	INTEGER ::= 16	
maxNrOfSCCPCHs	INTEGER ::= 8	
maxTFCI1Combs	INTEGER ::= 51	2
maxTFCI2Combs	INTEGER ::= 10	24
maxTFCI2Combs-1	INTEGER ::= 10	23
maxTGPS	INTEGER ::= 6	
maxNrOfTS	INTEGER ::= 15	
maxNrOfLevels	INTEGER ::= 25	б
maxNrOfTsLCR	INTEGER ::= 6	
maxNoSat	INTEGER ::= 16	
maxNoGPSTypes	INTEGER ::= 8	
maxNrOfMeasNCell	INTEGER ::= 96	
maxNrOfMeasNCell-1	INTEGER ::= 95	maxNrOfMeasNCell - 1
************************************	* * * * * * * * * * * * * * * * * * *	* * * * * * * * *
IEs		
************************************	******	* * * * * * * * * *
id-AllowedOueuingTime		ProtocolIE-ID ::= 4
id-Allowed-Rate-Information		ProtocolIE-ID ::= 42
id-BindingID		ProtocolIE-ID ::= 5
id-C-ID		ProtocolIE-ID ::= 6
id-C-RNTI		ProtocolIE-ID ::= 7
id-CFN		ProtocolIE-ID ::= 8
id-CN-CS-DomainIdentifier		ProtocolIE-ID ::= 9
id-CN-PS-DomainIdentifier		ProtocolIE-ID ::= 10
id-Cause		ProtocolIE-ID ::= 11
id-CriticalityDiagnostics		ProtocolIE-ID ::= 20
id-D-RNTI		ProtocolIE-ID ::= 21
id-D-RNTI-ReleaseIndication		ProtocolIE-ID ::= 22
id-DCHs-to-Add-FDD		ProtocolIE-ID ::= 26
id-DCHs-to-Add-TDD		ProtocolIE-ID ::= 27
id-DCH-DeleteList-RL-ReconfPrepFDD		ProtocolIE-ID ::= 30
id-DCH-DeleteList-RL-ReconfPrepTDD		ProtocolIE-ID ::= 31
id-DCH-DeleteList-RL-ReconfRqstFDD		ProtocolIE-ID ::= 32
id-DCH-DeleteList-RL-ReconfRqstTDD		ProtocolIE-ID ::= 33
id-DCH-FDD-Information		ProtocolIE-ID ::= 34
id-DCH-TDD-Information		ProtocolIE-ID ::= 35
id-FDD-DCHs-to-Modify		ProtocolIE-ID ::= 39
id-TDD-DCHs-to-Modify		ProtocolIE-ID ::= 40
id-DCH-InformationResponse		ProtocolIE-ID ::= 43
id-DCH-Rate-InformationItem-RL-Congest	Ind	ProtocolIE-ID ::= 38
id-DL-CCTrCH-InformationAddItem-RL-Red	confPrepTDD	ProtocolIE-ID ::= 44
id-DL-CCTrCH-InformationListIE-RL-Reco	onfReadyTDD	ProtocolIE-ID ::= 45
id-DL-CCTrCH-InformationDeleteItem-RL-	-ReconfRqstTDD	ProtocolIE-ID ::= 46
id-DL-CCTrCH-InformationItem-RL-Setup	RqstTDD	ProtocolIE-ID ::= 47
id-DL-CCTrCH-InformationListIE-PhyChRe	econfRqstTDD	ProtocolIE-ID ::= 48
id-DL-CCTrCH-InformationListIE-RL-Add:	itionRspTDD	ProtocolIE-ID ::= 49

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id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD id-DL-CCTrCH-InformationList-RL-SetupRqstTDD id-FDD-DL-CodeInformation id-DL-DPCH-Information-RL-ReconfPrepFDD id-DL-DPCH-Information-RL-SetupRqstFDD id-DL-DPCH-Information-RL-ReconfRostFDD id-DL-DPCH-InformationItem-PhyChReconfRqstTDD id-DL-DPCH-InformationItem-RL-AdditionRspTDD id-DL-DPCH-InformationItem-RL-SetupRspTDD id-DLReferencePower id-DLReferencePowerList-DL-PC-Rqst id-DL-ReferencePowerInformation-DL-PC-Rost id-DPC-Mode id-DRXCvcleLengthCoefficient id-DedicatedMeasurementObjectType-DM-Rprt id-DedicatedMeasurementObjectType-DM-Rgst id-DedicatedMeasurementObjectType-DM-Rsp id-DedicatedMeasurementType id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD id-Guaranteed-Rate-Information id-IMSI id-L3-Information id-AdjustmentPeriod id-MaxAdjustmentStep id-MeasurementFilterCoefficient id-MessageStructure id-MeasurementID id-Neighbouring-GSM-CellInformation id-Neighbouring-UMTS-CellInformationItem id-PagingArea-PagingRgst id-FACH-FlowControlInformation id-PowerAdjustmentType id-RANAP-RelocationInformation id-RL-Information-PhyChReconfRqstFDD id-RL-Information-PhyChReconfRqstTDD id-RL-Information-RL-AdditionRgstFDD id-RL-Information-RL-AdditionRgstTDD id-RL-Information-RL-DeletionRgst id-RL-Information-RL-FailureInd id-RL-Information-RL-ReconfPrepFDD id-RL-Information-RL-RestoreInd id-RL-Information-RL-SetupRgstFDD id-RL-Information-RL-SetupRgstTDD id-RL-InformationItem-RL-CongestInd id-RL-InformationItem-DM-Rprt id-RL-InformationItem-DM-Rgst id-RL-InformationItem-DM-Rsp id-RL-InformationItem-RL-PreemptRequiredInd id-RL-InformationItem-RL-SetupRgstFDD id-RL-InformationList-RL-CongestInd

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ProtocolIE-ID ::= 50 ProtocolIE-ID ::= 51 ProtocolIE-ID ::= 52 ProtocolIE-ID ::= 53 ProtocolIE-ID ::= 54 ProtocolIE-ID ::= 59 ProtocolIE-ID ::= 60 ProtocolIE-ID ::= 61 ProtocolIE-ID ::= 62ProtocolIE-ID ::= 63 ProtocolIE-ID ::= 64 ProtocolIE-ID ::= 67 ProtocolIE-ID ::= 68 ProtocolIE-ID ::= 69 ProtocolIE-ID ::= 12 ProtocolIE-ID ::= 70 ProtocolIE-ID ::= 71 ProtocolIE-ID ::= 72 ProtocolIE-ID ::= 73 ProtocolIE-ID ::= 74 ProtocolIE-ID ::= 82 ProtocolIE-ID ::= 83 ProtocolIE-ID ::= 41 ProtocolIE-ID ::= 84 ProtocolIE-ID ::= 85 ProtocolIE-ID ::= 90 ProtocolIE-ID ::= 91 ProtocolIE-ID ::= 92 ProtocolIE-ID ::= 57 ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 13 ProtocolIE-ID ::= 95 ProtocolIE-ID ::= 102 ProtocolIE-ID ::= 103 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 109 ProtocolIE-ID ::= 110 ProtocolIE-ID ::= 111 ProtocolIE-ID ::= 112 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 114 ProtocolIE-ID ::= 115 ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 118 ProtocolIE-ID ::= 119 ProtocolIE-ID ::= 55 ProtocolIE-ID ::= 120 ProtocolIE-ID ::= 121 ProtocolIE-ID ::= 122 ProtocolIE-ID ::= 2 ProtocolIE-ID ::= 123 ProtocolIE-ID ::= 56

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id-RL-InformationList-RL-AdditionRqstFDD id-RL-InformationList-RL-DeletionRgst id-RL-InformationList-RL-PreemptRequiredInd id-RL-InformationList-RL-ReconfPrepFDD id-RL-InformationResponse-RL-AdditionRspTDD id-RL-InformationResponse-RL-ReconfReadvTDD id-RL-InformationResponse-RL-SetupRspTDD id-RL-InformationResponseItem-RL-AdditionRspFDD id-RL-InformationResponseItem-RL-ReconfReadyFDD id-RL-InformationResponseItem-RL-ReconfRspFDD id-RL-InformationResponseItem-RL-SetupRspFDD id-RL-InformationResponseList-RL-AdditionRspFDD id-RL-InformationResponseList-RL-ReconfReadyFDD id-RL-InformationResponseList-RL-ReconfRspFDD id-RL-InformationResponse-RL-ReconfRspTDD id-RL-InformationResponseList-RL-SetupRspFDD id-RL-ReconfigurationFailure-RL-ReconfFail id-RL-Set-InformationItem-DM-Rprt id-RL-Set-InformationItem-DM-Rgst id-RL-Set-InformationItem-DM-Rsp id-RL-Set-Information-RL-FailureInd id-RL-Set-Information-RL-RestoreInd id-ReportCharacteristics id-Reporting-Object-RL-FailureInd id-Reporting-Object-RL-RestoreInd id-S-RNTI id-SAI id-SRNC-ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD id-TransportBearerID id-TransportBearerRequestIndicator id-TransportLayerAddress id-TypeOfError id-UC-ID id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD id-UL-CCTrCH-InformationList-RL-SetupRgstTDD id-UL-CCTrCH-InformationListIE-PhvChReconfRgstTDD id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD id-UL-DPCH-Information-RL-ReconfPrepFDD id-UL-DPCH-Information-RL-ReconfRqstFDD id-UL-DPCH-Information-RL-SetupRqstFDD id-UL-DPCH-InformationItem-PhyChReconfRgstTDD id-UL-DPCH-InformationItem-RL-AdditionRspTDD id-UL-DPCH-InformationItem-RL-SetupRspTDD id-UL-DPCH-InformationAddListIE-RL-ReconfReadvTDD id-UL-SIRTarget id-URA-Information id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD

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ProtocolIE-ID ::= 124 ProtocolIE-ID ::= 125 ProtocolIE-ID ::= 1 ProtocolIE-ID ::= 126 ProtocolIE-ID ::= 127 ProtocolIE-ID ::= 128 ProtocolIE-ID ::= 129 ProtocolIE-ID ::= 130 ProtocolIE-ID ::= 131 ProtocolIE-ID ::= 132 ProtocolIE-ID ::= 133 ProtocolIE-ID ::= 134 ProtocolIE-ID ::= 135 ProtocolIE-ID ::= 136 ProtocolIE-ID ::= 28 ProtocolIE-ID ::= 137 ProtocolIE-ID ::= 141 ProtocolIE-ID ::= 143 ProtocolIE-ID ::= 144 ProtocolIE-ID ::= 145 ProtocolIE-ID ::= 146 ProtocolIE-ID ::= 147 ProtocolIE-ID ::= 152 ProtocolIE-ID ::= 153 ProtocolIE-ID ::= 154 ProtocolIE-ID ::= 155 ProtocolIE-ID ::= 156 ProtocolIE-ID ::= 157 ProtocolIE-ID ::= 159 ProtocolIE-ID ::= 160 ProtocolIE-ID ::= 163 ProtocolIE-ID ::= 164 ProtocolIE-ID ::= 165 ProtocolIE-ID ::= 140 ProtocolIE-ID ::= 166 ProtocolIE-ID ::= 167 ProtocolIE-ID ::= 169 ProtocolIE-ID ::= 171 ProtocolIE-ID ::= 172 ProtocolIE-ID ::= 173 ProtocolIE-ID ::= 174 ProtocolIE-ID ::= 175 ProtocolIE-ID ::= 176 ProtocolIE-ID ::= 177 ProtocolIE-ID ::= 178 ProtocolIE-ID ::= 179 ProtocolIE-ID ::= 180 ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 182 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 188

id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD id-Active-Pattern-Sequence-Information id-AdjustmentRatio id-CauseLevel-RL-AdditionFailureFDD id-CauseLevel-RL-AdditionFailureTDD id-CauseLevel-RL-ReconfFailure id-CauseLevel-RL-SetupFailureFDD id-CauseLevel-RL-SetupFailureTDD id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD id-DL-DPCH-InformationAddListIE-RL-ReconfReadvTDD id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadvTDD id-DL-DPCH-InformationModifvListIE-RL-ReconfReadvTDD id-DSCHs-to-Add-TDD id-DSCHs-to-Add-FDD id-DSCH-DeleteList-RL-ReconfPrepTDD id-DSCH-Delete-RL-ReconfPrepFDD id-DSCH-FDD-Information id-DSCH-InformationListIE-RL-AdditionRspTDD id-DSCH-InformationListIEs-RL-SetupRspTDD id-DSCH-TDD-Information id-DSCH-FDD-InformationResponse id-DSCH-Information-RL-SetupRgstFDD id-DSCH-ModifyList-RL-ReconfPrepTDD id-DSCH-Modify-RL-ReconfPrepFDD id-DSCHsToBeAddedOrModified-FDD id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD id-EnhancedDSCHPC id-EnhancedDSCHPCIndicator id-GA-Cell id-GA-CellAdditionalShapes id-SSDT-CellIDforEDSCHPC id-Transmission-Gap-Pattern-Sequence-Information id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD id-USCHs-to-Add id-USCH-DeleteList-RL-ReconfPrepTDD id-USCH-InformationListIE-RL-AdditionRspTDD id-USCH-InformationListIEs-RL-SetupRspTDD

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ProtocolIE-ID ::= 189 ProtocolIE-ID ::= 190 ProtocolIE-ID ::= 193 ProtocolIE-ID ::= 194 ProtocolIE-ID ::= 197 ProtocolIE-ID ::= 198 ProtocolIE-ID ::= 199 ProtocolIE-ID ::= 200 ProtocolIE-ID ::= 201 ProtocolIE-ID ::= 205 ProtocolIE-ID ::= 206 ProtocolIE-ID ::= 207 ProtocolIE-ID ::= 208 ProtocolIE-ID ::= 209 ProtocolIE-ID ::= 210 ProtocolIE-ID ::= 212 ProtocolIE-ID ::= 213 ProtocolIE-ID ::= 214 ProtocolIE-ID ::= 215 ProtocolIE-ID ::= 216 ProtocolIE-ID ::= 217 ProtocolIE-ID ::= 218 ProtocolIE-ID ::= 219 ProtocolIE-ID ::= 220 ProtocolIE-ID ::= 221 ProtocolIE-ID ::= 222 ProtocolIE-ID ::= 223 ProtocolIE-ID ::= 226 ProtocolIE-ID ::= 227 ProtocolIE-ID ::= 228 ProtocolIE-ID ::= 229 ProtocolIE-ID ::= 230 ProtocolIE-ID ::= 29 ProtocolIE-ID ::= 34 ProtocolIE-ID ::= 232 ProtocolIE-ID ::= 3 ProtocolIE-ID ::= 35 ProtocolIE-ID ::= 255 ProtocolIE-ID ::= 256 ProtocolIE-ID ::= 257 ProtocolIE-ID ::= 258 ProtocolIE-ID ::= 259 ProtocolIE-ID ::= 260 ProtocolIE-ID ::= 261 ProtocolIE-ID ::= 262 ProtocolIE-ID ::= 263 ProtocolIE-ID ::= 264 ProtocolIE-ID ::= 265 ProtocolIE-ID ::= 266 ProtocolIE-ID ::= 267 ProtocolIE-ID ::= 268 ProtocolIE-ID ::= 269 ProtocolIE-ID ::= 270

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id-USCH-Information id-USCH-ModifyList-RL-ReconfPrepTDD id-USCHToBeAddedOrModifiedList-RL-ReconfReadvTDD id-DL-Physical-Channel-Information-RL-SetupRqstTDD id-UL-Physical-Channel-Information-RL-SetupRgstTDD id-ClosedLoopModel-SupportIndicator id-ClosedLoopMode2-SupportIndicator id-STTD-SupportIndicator id-CFNReportingIndicator id-CNOriginatedPage-PagingRgst id-InnerLoopDLPCStatus id-PropagationDelay id-RxTimingDeviationForTA id-timeSlot-ISCP id-CCTrCH-InformationItem-RL-FailureInd id-CCTrCH-InformationItem-RL-RestoreInd id-CommonMeasurementAccuracy id-CommonMeasurementObjectType-CM-Rprt id-CommonMeasurementObjectType-CM-Rgst id-CommonMeasurementObjectType-CM-Rsp id-CommonMeasurementType id-SFN id-SFNReportingIndicator id-InformationExchangeID id-InformationExchangeObjectType-InfEx-Rprt id-InformationExchangeObjectType-InfEx-Rgst id-InformationExchangeObjectType-InfEx-Rsp id-InformationReportCharacteristics id-InformationType id-neighbouring-LCR-TDD-CellInformation id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRqstTDD id-RL-LCR-InformationResponse-RL-SetupRspTDD id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD id-USCH-LCR-InformationListIEs-RL-SetupRspTDD id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRgstTDD id-RL-LCR-InformationResponse-RL-AdditionRspTDD id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD id-UL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD id-DL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD id-TSTD-Support-Indicator-RL-SetupRqstTDD

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ProtocolIE-ID ::= 271 ProtocolIE-ID ::= 272 ProtocolIE-ID ::= 273 ProtocolIE-ID ::= 274 ProtocolIE-ID ::= 275 ProtocolIE-ID ::= 276 ProtocolIE-ID ::= 277 ProtocolIE-ID ::= 279 ProtocolIE-ID ::= 14 ProtocolIE-ID ::= 23 ProtocolIE-ID ::= 24 ProtocolIE-ID ::= 25 ProtocolIE-ID ::= 36 ProtocolIE-ID ::= 37 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 280 ProtocolIE-ID ::= 281 ProtocolIE-ID ::= 282 ProtocolIE-ID ::= 283 ProtocolIE-ID ::= 284 ProtocolIE-ID ::= 285 ProtocolIE-ID ::= 286 ProtocolIE-ID ::= 287 ProtocolIE-ID ::= 288 ProtocolIE-ID ::= 289 ProtocolIE-ID ::= 290 ProtocolIE-ID ::= 291 ProtocolIE-ID ::= 292 ProtocolIE-ID ::= 58 ProtocolIE-ID ::= 65 ProtocolIE-ID ::= 66 ProtocolIE-ID ::= 75 ProtocolIE-ID ::= 76 ProtocolIE-ID ::= 77 ProtocolIE-ID ::= 78 ProtocolIE-ID ::= 79 ProtocolIE-ID ::= 80 ProtocolIE-ID ::= 81 ProtocolIE-ID ::= 86 ProtocolIE-ID ::= 87 ProtocolIE-ID ::= 88 ProtocolIE-ID ::= 89 ProtocolIE-ID ::= 94 ProtocolIE-ID ::= 96 ProtocolIE-ID ::= 97 ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 101 ProtocolIE-ID ::= 104 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 106 ProtocolIE-ID ::= 139

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id-RestrictionStateIndicator		ProtocolIE-ID ::= 142
id-UL-SIR-Target-CCTrCH-Information	Item-RL-SetupRspTDD	ProtocolIE-ID ::= 150
id-UL-SIR-Target-CCTrCH-LCR-Informa	tionItem-RL-SetupRspTDD	ProtocolIE-ID ::= 151

END

			Cł	HANG	E REC	UES	Г			CR-Form-v5
ж	25	<mark>.423</mark>	CR	572	ж rev	2 [#]	Current vers	sion: <mark>4</mark> .	.3.0	ж
For <u>HELP</u> on	using	this for	m, see be	ottom of th	nis page or	look at tl	he pop-up text	over the	э Ж syn	nbols.
Proposed change	e affec	ts: ¥	(U)SIN	Л <mark> </mark> N	IE/UE	Radio A	ccess Networ	k <mark>X</mark> C	ore Ne	twork
Title:	<mark>₩</mark> Tra	<mark>ffic clas</mark>	<mark>s signallin</mark>	g for USCI	ł					
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		refer to the same IE "9.2.1.58A Traffic class".

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G_Specs/CRs.htm</u>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.3 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 5: Radio Link Setup procedure: Successful Operation

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

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

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

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

Transport Channels Handling:

DCH(s):

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

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

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

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

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

The *Frame Handling Priority* IE defines the priority level that should be used by the DRNS to prioritise between different frames of the data frames of the DCHs in the downlink on the radio interface in congestion situations once the new RL(s) have been activated.

If the *DCH Specific Info* IE in the *DCH Information* IE includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:

- If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.
- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the downlink of the DCH.

DSCH(s):

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

[TDD - USCH(s)]:

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

[TDD – If the USCH Information IE is included in the RADIO LINK SETUP REQUEST message, the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related USCHs.]

Physical Channels Handling:

[FDD - Compressed Mode]:

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the DRNS shall use the information to activate the indicated Transmission Gap Pattern Sequences(s) in the new RL. The received *CM Configuration Change CFN* IE refers to latest passed CFN with that value. The DRNS shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the DRNS shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the DRNS shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]

- [FDD - For all other Transmission Gap Pattern Sequences included in the *Active Pattern Sequence Information* IE, the DRNS shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE for the Transmission Gap Pattern Sequence.]

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

[FDD - DL Code Information]:

[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*".]

General:

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

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

Radio Link Handling:

Diversity Combination Control:

[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 *Diversity Control Field* IE is set to "Must not", the DRNS shall not combine the RL with any other existing RL.]

[FDD - In the case of combining one or more RLs the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message with the *Diversity Indication* IE that the RL is combined with another RL RL for all RLs but the first 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 not be included for the first of the combined RLs, for which the *Transport Layer Address* IE and the *Binding ID* IE shall be included.]

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

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

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

[FDD-Transmit Diversity]:

[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.]

[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 Indicator* IE].

DL Power Control:

[FDD - If both the *Initial DL TX Power* IE and *Uplink SIR Target* IE are included 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 constrains 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. The DRNS shall not transmit with a higher power than indicated by the *Maximum DL TX Power IE* or lower than indicated by the *Minimum DL TX Power IE* on any DL DPCH of the RL except during compressed mode, when the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

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

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

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

[FDD – 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 on the Uu interface for the concerning RLS or Power Balancing is activated. No inner loop 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) and the power control procedure (see 8.3.7).]

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

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

[FDD - If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the DRNC shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the life time of the RL. If the *DPC Mode* IE is not present in the RADIO LINK SETUP REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]

Neighbouring Cell Handling:

If there are UMTS neighbouring cell(s) to the cell in which a Radio Link was established then:

- The DRNC shall include the *Neighbouring FDD Cell Information* IE and/or *Neighbouring TDD Cell Information* IE in the *Neighbouring UMTS Cell Information* IE for each neighbouring FDD cell and/or TDD cell respectively. In addition, if the information is available, the DRNC shall include the *Frame Offset* IE, *Primary CPICH Power* IE, *Cell Individual Offset* IE, *STTD Support Indicator* IE, *Closed Loop Mode1 Support Indicator* IE and *Closed Loop Mode2 Support Indicator* IE in the *Neighbouring FDD Cell Information* IE, and the *Frame Offset* IE, *Cell Individual Offset* IE, *DPCH Constant Value* IE and the *PCCPCH Power* IE in the *Neighbouring TDD Cell Information* IE.
- If a UMTS neighbouring cell is not controlled by the same DRNC, the DRNC shall also include the CN PS Domain Identifier IE and/or CN CS Domain Identifier IE which are the identifiers of the CN nodes connected to the RNC controlling the UMTS neighbouring cell.
- FDD The DRNC shall include the *DPC Mode Change Support Indicator* IE if the DRNC is aware that the neighbouring cell supports DPC mode change.]

For the UMTS neighbouring cells which are controlled by the DRNC, the DRNC shall report in the RADIO LINK SETUP RESPONSE message the restriction state of those cells, otherwise *Restriction state indicator* IE may be absent. The DRNC shall include the *Restriction state indicator* IE for the neighbouring cells which are controlled by the DRNC in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information* LCR IE.

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

General:

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity for EDSCHPC IE, the DRNS shall activate enhanced DSCH power control, if supported, using the SSDT Cell Identity for EDSCHPC IE and SSDT Cell Identity Length IE as well as Enhanced DSCH PC IE in accordance with ref. [10] subclause 5.2.2. If the RADIO LINK SETUP REQUEST message includes both SSDT Cell Identity IE and SSDT Cell Identity for EDSCHPC IE, then the DRNS shall ignore the SSDT Cell Identity for EDSCHPC IE.]

[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 DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link established in a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK SETUP RESPONSE message.]

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

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

[TDD – If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include the *UARFCN* IE, the *Cell Parameter ID* IE,[3.84Mcps TDD - the *Sync Case* IE, the *SCH Time Slot* IE,] the *SCTD Indicator* IE, and the *PCCPCH Power* IE in the RADIO LINK SETUP RESPONSE message.]

[TDD - The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response* IE or *USCH Information Response* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the [3.84Mcps TDD - *Secondary CCPCH Info TDD* IE] [1.28Mcps TDD – *Secondary CCPCH Info TDD LCR* IE] in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response* IE or *USCH Information Response* IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

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

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE and the UTRAN access point position for each of the established RLs in the RADIO LINK SETUP RESPONSE message.

If the DRNS need to limit the user rate in the uplink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed UL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK SETUP RESPONSE message for this Radio Link.

If the DRNS need to limit the user rate in the downlink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed DL Rate* IE of the *Allowed Rate Information* IE in the *DCH*

Information Response IE for this DCH in the RADIO LINK SETUP RESPONSE message for this Radio Link.

If the *Permanent NAS UE Identity* IE is included in the RADIO LINK SETUP REQUEST message, the DRNS shall store the information for the considered UE Context for the life-time of the UE Context.

If the RADIO LINK SETUP REQUEST message includes the *Permanent NAS UE Identity* IE and a *C-ID* IE corresponding to a cell reserved for operator use, the DRNC shall use this information to determine whether it can set up a Radio Link on this cell or not for the considered UE Context.

[FDD - Radio Link Set Handling]:

[FDD - The *First RLS Indicator* IE indicates if the concerning RL shall be considered part of the first RLS established towards this UE. The *First RLS Indicator* IE shall be used by the DRNS to determine the initial TPC pattern in the DL of the concerning RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.

[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 –The UL Uu synchronisation detection algorithm defined in ref. [10] subclause 4.3 shall for each of the established RL Set(s) use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set].

Response Message:

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 established.

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

/* partly omitted */

8.3.4 Synchronised Radio Link Reconfiguration Preparation

8.3.4.1 General

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

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

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

8.3.4.2 Successful Operation



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

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

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

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

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

DCH Modification:

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

- If the *DCHs to Modify IE* includes 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 *DCHs to Modify IE* includes the *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be modified, the DRNS shall apply the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs to Modify IE* includes the *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWS in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCHs to Modify IE* includes the *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be modified, the DRNS shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- If the *DCH Specific Info* IE includes the *Frame Handling Priority* IE for a DCH to be modified, the DRNS should store this information for this DCH in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the DRNS once the new configuration has been activated.
- If the *DCH Specific Info* IE includes the *Transport Format Set* IE for the UL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Uplink of this DCH in the new configuration.
- If the *DCH Specific Info* IE includes the *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- [FDD If, in the DCH Specific Info IE, the DRAC Control IE is present and set to "requested" for at least one DCH and if the DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK RECONFIGURATION READY message the Secondary CCPCH Info IE for the FACH where the DRAC information is sent, for each Radio Link established in a cell where DRAC is active. If the DRNS does not support DRAC, DRNC shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]
- [TDD If the *DCH Specific Info* IE includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH.]

- [TDD If the *DCH Specific Info* IE includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH.]
- If the *DCH Specific Info* IE includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:
 - If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate in the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.
- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate in the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate.

DCH Addition:

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

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

message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link supported by a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK RECONFIGURATION READY message.]

- If the *DCH Specific Info* IE includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:
 - If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the uplink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE, the DRNS shall not limit the user rate of the downlink of the DCH.
- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS shall apply the new Guaranteed Rate in the downlink of this DCH in the new configuration. The DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time after activating the new configuration. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.

DCH Deletion:

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

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

Physical Channel Modification:

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

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

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

- [FDD If the *DL DPCH Information* IE includes *Number of DL Channelisation Codes IE*, the DRNS shall allocate given number of Downlink Channelisation Codes per Radio Link and apply the new Downlink Channelisation Code(s) to the new configuration. Each Downlink Channelisation Code allocated for the new configuration shall be included as a FDD DL Channelisation Code Number IE in the RADIO LINK RECONFIGURATION READY message when sent to the SRNC. If some Transmission Gap Pattern sequences using 'SF/2' method are already initialised in the DRNS, DRNC shall include the *Transmission Gap Pattern Sequence Scrambling Code Information IE* in the RADIO LINK RECONFIGURATION READY message in case the DRNS selects to change the Scrambling code change method for one or more DL Channelisation Code.]
- [FDD When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to [8]. When *p* number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "*PhCH number 1*", the second to "*PhCH number 2*", and so on until the *p*th to "*PhCH number p*".]
- [FDD If the *DL DPCH Information* IE includes the *TFCS* IE, the DRNS shall use the *TFCS* IE for the DL when reserving resources for the downlink of the new configuration. The DRNS shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *DL DPCH Slot Format* IE, the DRNS shall apply the new slot format used in DPCH in DL.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE, the DRNS shall apply the new signalling mode of the TFCI.]
- [FDD If the *DL DPCH Information* IE includes the *Multiplexing Position* IE, the DRNS shall apply the new parameter to define whether fixed or flexible positions of transport channels shall be used in the physical channel.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to 'Used', the DRNS shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the DRNS shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

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

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

[TDD - UL/DL CCTrCH Modification]

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

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

- [TDD The DRNC shall include in the RADIO LINK RECONFIGURATION READY message DPCH information to be modified and the IEs modified if any of *Repetition Period* IE, *Repetition Length* IE, *TDD DPCH Offset* IE or timeslot information was modified. The DRNC shall include timeslot information and the IEs modified if any of [3.84Mcps TDD Midamble Shift and Burst Type IE, Time Slot IE], [1.28Mcps TDD Midamble Shift LCR IE, Time Slot LCR IE], TFCI Presence IE or Code information was modified. The DRNC shall include code information if [3.84Mcps TDD TDD Channelisation Code IE] and/or [1.28Mcps TDD TDD Channelisation Code LCR IE] was modified.]
- [1.28Mcps TDD If the *UL CCTrCH to Modify* IE includes the *UL SIR Target* IE, the DRNS shall use the value for the UL inner loop power control according [12] and [22] when the new configuration is being used.]

[TDD – UL/DL CCTrCH Addition]

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

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

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes a *DL CCTrCH to Add* IE, the DRNS shall set the TPC step size of that CCTrCH to the same value as the lowest numbered DL CCTrCH in the current configuration.]

[1.28Mcps TDD – The DRNS shall use the *UL SIR Target* IE in the *UL CCTrCH to Add* IE as the UL SIR value for the inner loop power control for this CCTrCH according [12] and [22] in the new configuration.]

[TDD – UL/DL CCTrCH Deletion]

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

SSDT Activation/Deactivation:

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

DSCH Addition/Modification/Deletion:

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

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

[FDD - If the *DSCHs to Add* IE includes the *Enhanced DSCH PC* IE, the DRNS shall activate enhanced DSCH power control in accordance with ref. [10] subclause 5.2.2, if supported, using either:]

- [FDD the SSDT Cell Identity for EDSCHPC IE in the RL Information IE, if the SSDT Cell Identity IE is not included in the RL Information IE or]
- [FDD the SSDT Cell Identity IE in the RL Information IE, if both the SSDT Cell Identity IE and the SSDT Cell Identity for EDSCHPC are included in the RL Information IE.]

[FDD - together with the SSDT Cell Identity Length IE in UL DPCH Information IE, and Enhanced DSCH PC IE, in the new configuration.]

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

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

- [FDD If the *DSCH to Modify* IE includes the *PDSCH RL ID* IE, then the DRNS shall use it as the new DSCH RL identifier.]
- [FDD If the *DSCH to Modify* IE includes the *Transport Format Combination Set* IE, then the DRNS shall use it as the new Transport Format Combination Set associated with the DSCH.]
- [TDD If the *DSCHs to Modify* IE includes the *CCTrCH Id* IE, then the DRNS shall map the DSCH onto the referenced DL CCTrCH.]
- [TDD If the *DSCHs to Modify* IE includes any of the *Allocation/Retention Priority* IE, *Scheduling Priority Indicator* IE or *TrCH Source Statistics Descriptor* IE, the DNRS shall use them to update the set of DSCH Priority classes each of which is associated with a set of supported MAC-c/sh SDU lengths.]
- [TDD If the *DSCHs to Modify* IE includes any of the *Transport Format Set* IE or *BLER* IE, the DRNS shall apply the parameters to the new configuration.]
- [TDD The DRNC shall include the Secondary CCPCH Info TDD IE in the RADIO LINK RECONFIGURATION READY message if a DSCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the Secondary CCPCH Info TDD IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]
- [FDD If the *DSCHs to Modify* IE includes the *Enhanced DSCH PC Indicator* IE set to "Enhanced DSCH PC Active in the UE ", the DRNS shall activate enhanced DSCH power control in accordance with ref. [10] subclause 5.2.2, if supported, using either:]
 - [FDD the SSDT Cell Identity for EDSCHPC IE in RL Information IE, if the SSDT Cell Identity IE is not included in the RL Information IE or]
 - [FDD the SSDT Cell Identity IE in the RL Information IE, if both the SSDT Cell Identity IE and the SSDT Cell Identity for EDSCHPC are included in the RL Information IE.]

[FDD - together with the SSDT Cell Identity Length IE in UL DPCH Information IE, and Enhanced DSCH PC IE, in the new configuration.]

- [FDD - If the *DSCHs to Modify* IE includes the *Enhanced DSCH PC Indicator* IE set to "Enhanced DSCH PC not Active in the UE", the DRNS shall deactivate enhanced DSCH power control 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.

[TDD] USCH Addition/Modification/Deletion

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

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

If the RADIO LINK RECONFIGURATION PREPARE message includes any USCH to add IE, then the DRNS may use the *Traffic Class* IE to determine the transport bearer characteristics to apply between DRNC and Node B for the related USCHs.

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

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

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- If the USCHs to Modify IE includes the Traffic Class IE, the DRNS may use this information to determine the transport bearer characteristics to apply between DRNC and Node B for the related USCHs.
- [TDD The DRNC shall include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if a USCH is added and at least one DCH exists in the new configuration. The DRNC shall also include the *Secondary CCPCH Info TDD* IE in the RADIO LINK RECONFIGURATION READY message if the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

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

General

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

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

Any allowed rate for the uplink of a DCH provided for the old configuration will not be valid for the new configuration. If the DRNS need to limit the user rate in the uplink of a DCH in the new configuration for a Radio Link, the DRNC shall include the *Allowed UL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK RECONFIGURATION READY message for this Radio Link.

Any allowed rate for the downlink of a DCH provided for the old configuration will not be valid for the new configuration. If the DRNS need to limit the user rate in the downlink of a DCH in the new configuration for a Radio Link, the DRNC shall include the *Allowed DL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK RECONFIGURATION READY message for this Radio Link.

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

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

If the DL TX power upper or lower limit has been re-configured the DRNC shall return this in the *Maximum DL TX Power* IE and *Minimum DL TX Power* IE respectively in the RADIO LINK RECONFIGURATION RESPONSE message. The DRNS shall not transmit with a higher power than indicated by the *Maximum DL TX Power IE* or lower than indicated by the *Minimum DL TX Power IE* on any DL DPCH of the RL [FDD – except during compressed mode, when the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]



Figure 30H: Information Reporting procedure, Successful Operation

If the requested information reporting criteria are met, the RNC_2 shall initiate an Information Reporting procedure. Unless specified below, the meaning of the parameters are given in other specifications.

The *Information Exchange ID* IE shall be set to the Information Exchange ID provided by the RNC_1 when initiating the information exchange with the Information Exchange Initiation procedure.

The Requested Data Value IE shall include at least one IE containing the data to be reported.

/* partly omitted */

9.1.11 RADIO LINK RECONFIGURATION PREPARE

9.1.11.1 FDD Message

/* partly omitted */

9.1.11.2 TDD Message

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and	Description		Criticality
Maraana			Reference		VEO	
Message Type	M		9.2.1.40		YES	reject
I ransaction ID	M		9.2.1.59			roiget
	0	0	9.2.1.2	For DCH and		reject
OL COTTON TO Add		ofCCTrCH			EACH	noury
		s>		03011		
>CCTrCH ID	М		9.2.3.2		_	
>TFCS	M		9.2.1.63	For the UL.	_	
>TFCI Coding	М		9.2.3.11		_	
>Puncture Limit	М		9.2.1.40		-	
> UL SIR Target	0		Uplink SIR	Mandatory	YES	reject
, i i i i i i i i i i i i i i i i i i i			9.2.1.69	for 1.28Mcps		-
				TDD; not		
				applicable		
				for 3.84Mcps		
		0		TDD	FAOL	
UL COTICH to Modify		0 <maxno< td=""><td></td><td></td><td>EACH</td><td>notify</td></maxno<>			EACH	notify
		OICCIICH				
	M	32	0232			
STECS	0		92163	For the LII	_	
>TECL Coding	0		92311		_	
>Puncture Limit	0		92146		_	
> UI SIR Target	0		Unlink SIR	For	YES	reject
	Ŭ		92169	1 28Mcps	TEO	TOJOOL
			0.2.1.00	TDD only		
UL CCTrCH toDdelete		0 <maxno< td=""><td></td><td></td><td>EACH</td><td>notify</td></maxno<>			EACH	notify
		ofCCTrCH				-
		S>				
>CCTrCH ID	M		9.2.3.2		-	
DL CCTrCH to Add		0 <maxno< td=""><td></td><td>For DCH and</td><td>EACH</td><td>notify</td></maxno<>		For DCH and	EACH	notify
		ofCCTrCH		DSCH		
	N.4	\$>	0.2.2.2			
	M		9.2.3.2	For the DI		
>TECL Coding	M		92311	TOT THE DE.		
	M		92146			
STPC CCTrCH List		0 to	3.2.1.40	List of unlink		
		<maxnoc< td=""><td></td><td>CCTrCH</td><td></td><td></td></maxnoc<>		CCTrCH		
		CTrCH>		which		
		00		provide TPC		
>>TPC CCTrCH ID	М		CCTrCH		_	
			ID			
			9.2.3.2			
DL CCTrCH to Modify		0 <maxno< td=""><td></td><td></td><td>EACH</td><td>notify</td></maxno<>			EACH	notify
		ofCCTrCH				
		S>				
	M		9.2.3.2		_	
>TFC5	0		9.2.1.03	FOI THE DL.		
>TFCI Coding	0		9.2.3.11			
	0	0 to	9.2.1.40	List of uplials	_	
>TPC CCTTCH LISt					—	
				which		
				provide TPC		
>>TPC CCTrCH ID	М	1	CCTrCH		_	
			ID			
			9.2.3.2			
DL CCTrCH to Delete		0 <maxno< td=""><td></td><td> </td><td>EACH</td><td>notify</td></maxno<>			EACH	notify
		ofCCTrCH				
		S>				

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
>CCTrCH ID	М		9.2.3.2		_	
DCHs to Modify	0		TDD DCHs to Modify 9.2.3.8B		YES	reject
DCHs to Add	0		DCH TDD Information 9.2.3.2A		YES	reject
DCHs to Delete		0 <maxno ofDCHs></maxno 			GLOBAL	reject
>DCH ID	М		9.2.1.16		_	
DSCHs to Modify		0 <maxno ofDSCHs></maxno 			GLOBAL	reject
>DSCH ID	М		9.2.1.26A		_	
>CCTrCH Id	0		9.2.3.2	DL CCTrCH in which the DSCH is mapped.	_	
>TrCh Source Statistics Descriptor	0		9.2.1.65		-	
>Transport Format Set	0		9.2.1.64		_	
>Allocation/Retention Priority	0		9.2.1.1		_	
>Scheduling Priority Indicator	0		9.2.1.51A		-	
>BLER	0		9.2.1.4		-	
>Transport Bearer Request Indicator	М		9.2.1.61		-	
DSCHs to Add	0		DSCH TDD Information 9.2.3.3a		YES	reject
DSCHs to Delete		0 <maxno ofDSCHs></maxno 			GLOBAL	reject
>DSCH ID	М		9.2.1.26A		_	
USCHs to Modify		0 <maxno ofUSCHs></maxno 			GLOBAL	reject
>USCH ID	М		9.2.3.14		_	
>CCTrCH Id	0		9.2.3.2	UL CCTrCH in which the USCH is mapped.	_	
>TrCh Source Statistics Descriptor	0		9.2.1.65		-	
>Transport Format Set	0		9.2.1.64		_	
>Allocation/Retention Priority	0		9.2.1.1		-	
>Scheduling Priority Indicator	0		9.2.1.51A		-	
>BLER	0		9.2.1.4		_	
 >Transport Bearer Request Indicator 	М		9.2.1.61		_	
>RB Info		0 to <maxnoof RB></maxnoof 		All Radio Bearers using this USCH	-	
>>RB Identity	M		9.2.3.5B		-	
> I rattic class			<u>9.2.1.58A</u>		YES	ignore
USCHS to Add	0		USCH Information 9.2.3.15		YES	reject
USCHs to Delete		0 <maxno ofUSCHs></maxno 			GLOBAL	reject
>USCH ID	М	1	9.2.3.14	1	-	1
Range bound	Explanation					
----------------	-------------------------------------					
MaxnoofDCHs	Maximum number of DCHs for a UE.					
MaxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.					
MaxnoofDSCHs	Maximum number of DSCHs for one UE.					
MaxnoofUSCHs	Maximum number of USCHs for one UE.					

/* partly omitted */

9.2.3.15 USCH Information

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
USCH Information		1 to <maxnoof USCHs></maxnoof 			-	
>USCH ID	Μ		9.2.3.14		-	
>CCTrCH ID	М		9.2.3.2	UL CCTrCH in which the USCH is mapped	-	
>TrCh Source Statistics Descriptor	Μ		9.2.1.65		_	
>Transport Format Set	М		9.2.1.64	For USCH	_	
>Allocation/Retention Priority	Μ		9.2.1.1		-	
>Scheduling Priority Indicator	Μ		9.2.1.51A		_	
>BLER	М		9.2.1.4			
>RB Info		1 to <maxnoof RB></maxnoof 		All Radio Bearers using this USCH	-	
>>RB Identity	М		9.2.3.5B		_	
>Traffic class	M		9.2.1.58A		YES	ignore

The USCH Information IE provides information for USCHs to be established.

Range bound	Explanation
MaxnoofUSCHs	Maximum number of USCHs for one UE.
MaxnoofRBs	Maximum number of Radio Bearers for one UE.

/* partly omitted */

9.3.3 PDU Definitions

/* partly omitted */

IMPORTS

/* partly omitted */

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

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

maxNrOfDLTsLCR, maxNrOfULTsLCR. maxNrOfDPCHsLCR. maxNrOfLCRTDDNeighboursPerRNC, maxNrOfMeasNCell, id-Active-Pattern-Sequence-Information, id-AdjustmentRatio, id-AllowedQueuingTime, id-BindingID, id-C-ID, id-C-RNTI, id-CFN. id-CFNReportingIndicator, id-CN-CS-DomainIdentifier, id-CN-PS-DomainIdentifier. id-Cause, id-CauseLevel-RL-AdditionFailureFDD, id-CauseLevel-RL-AdditionFailureTDD, id-CauseLevel-RL-ReconfFailure, id-CauseLevel-RL-SetupFailureFDD, id-CauseLevel-RL-SetupFailureTDD, id-CCTrCH-InformationItem-RL-FailureInd, id-CCTrCH-InformationItem-RL-RestoreInd. id-ClosedLoopModel-SupportIndicator, id-ClosedLoopMode2-SupportIndicator, id-CNOriginatedPage-PagingRgst, id-CommonMeasurementAccuracy, id-CommonMeasurementObjectType-CM-Rprt, id-CommonMeasurementObjectType-CM-Rqst, id-CommonMeasurementObjectType-CM-Rsp, id-CommonMeasurementType, id-CongestionCause, id-CriticalityDiagnostics, id-D-RNTI. id-D-RNTI-ReleaseIndication, id-DCHs-to-Add-FDD. id-DCHs-to-Add-TDD, id-DCH-DeleteList-RL-ReconfPrepFDD, id-DCH-DeleteList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfRqstFDD, id-DCH-DeleteList-RL-ReconfRqstTDD, id-DCH-FDD-Information, id-DCH-TDD-Information, id-FDD-DCHs-to-Modify, id-TDD-DCHs-to-Modify, id-DCH-InformationResponse, id-DCH-Rate-InformationItem-RL-CongestInd, 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-ReconfRgstTDD, id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD. id-DL-CCTrCH-InformationItem-RL-SetupRgstTDD, id-DL-CCTrCH-InformationListIE-PhyChReconfRgstTDD, 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-ReconfRgstTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationList-RL-SetupRgstTDD. id-FDD-DL-CodeInformation. id-DL-DPCH-Information-RL-ReconfPrepFDD, id-DL-DPCH-Information-RL-SetupRgstFDD, id-DL-DPCH-Information-RL-ReconfRgstFDD, id-DL-DPCH-InformationItem-PhyChReconfRgstTDD, 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-SetupRestTDD. id-DLReferencePower, id-DLReferencePowerList-DL-PC-Rqst, id-DL-ReferencePowerInformation-DL-PC-Rgst, id-DRXCycleLengthCoefficient, id-DedicatedMeasurementObjectType-DM-Rprt, id-DedicatedMeasurementObjectType-DM-Rqst, id-DedicatedMeasurementObjectType-DM-Rsp, id-DedicatedMeasurementType, id-DPC-Mode, id-DPC-Mode-Change-SupportIndicator, id-DSCHs-to-Add-FDD, id-DSCHs-to-Add-TDD, id-DSCH-DeleteList-RL-ReconfPrepTDD, id-DSCH-Delete-RL-ReconfPrepFDD, id-DSCH-FDD-Information, id-DSCH-InformationListIE-RL-AdditionRspTDD, id-DSCH-InformationListIEs-RL-SetupRspTDD, id-DSCH-TDD-Information, id-DSCH-FDD-InformationResponse, id-DSCH-ModifyList-RL-ReconfPrepTDD, id-DSCH-Modify-RL-ReconfPrepFDD, id-DSCHsToBeAddedOrModified-FDD, id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD, id-EnhancedDSCHPC, id-EnhancedDSCHPCIndicator, id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD, id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD,

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id-GA-Cell, id-GA-CellAdditionalShapes. id-IMSI. id-InformationExchangeID, id-InformationExchangeObjectType-InfEx-Rprt, id-InformationExchangeObjectType-InfEx-Rgst, id-InformationExchangeObjectType-InfEx-Rsp, id-InformationReportCharacteristics, id-InformationType, id-InnerLoopDLPCStatus, id-L3-Information, id-AdjustmentPeriod, id-MaxAdjustmentStep, id-MeasurementFilterCoefficient, id-MeasurementID, id-PagingArea-PagingRgst, id-Permanent-NAS-UE-Identity, id-FACH-FlowControlInformation, id-PowerAdjustmentType, id-PropagationDelay, id-RANAP-RelocationInformation, id-RL-Information-PhyChReconfRqstFDD, id-RL-Information-PhyChReconfRqstTDD, id-RL-Information-RL-AdditionRgstFDD. id-RL-Information-RL-AdditionRgstTDD, 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-SetupRgstTDD, id-RL-InformationItem-RL-CongestInd, id-RL-InformationItem-DM-Rprt, id-RL-InformationItem-DM-Rqst, id-RL-InformationItem-DM-Rsp, id-RL-InformationItem-RL-PreemptRequiredInd, id-RL-InformationItem-RL-SetupRqstFDD, id-RL-InformationList-RL-CongestInd, id-RL-InformationList-RL-AdditionRqstFDD, id-RL-InformationList-RL-DeletionRgst, id-RL-InformationList-RL-PreemptRequiredInd, id-RL-InformationList-RL-ReconfPrepFDD, id-RL-InformationResponse-RL-AdditionRspTDD, id-RL-InformationResponse-RL-ReconfReadyTDD, id-RL-InformationResponse-RL-ReconfRspTDD, id-RL-InformationResponse-RL-SetupRspTDD, id-RL-InformationResponseItem-RL-AdditionRspFDD, id-RL-InformationResponseItem-RL-ReconfReadyFDD, id-RL-InformationResponseItem-RL-ReconfRspFDD, id-RL-InformationResponseItem-RL-SetupRspFDD, id-RL-InformationResponseList-RL-AdditionRspFDD,

id-RL-InformationResponseList-RL-ReconfReadyFDD, id-RL-InformationResponseList-RL-ReconfRspFDD, id-RL-InformationResponseList-RL-SetupRspFDD. id-RL-ReconfigurationFailure-RL-ReconfFail, id-RL-Set-InformationItem-DM-Rprt, id-RL-Set-InformationItem-DM-Rgst, id-RL-Set-InformationItem-DM-Rsp, id-RL-Set-Information-RL-FailureInd, id-RL-Set-Information-RL-RestoreInd, id-ReportCharacteristics, id-Reporting-Object-RL-FailureInd, id-Reporting-Object-RL-RestoreInd, id-RxTimingDeviationForTA, id-S-RNTI. id-SAI, id-SFN, id-SFNReportingIndicator, id-SRNC-ID, id-SSDT-CellIDforEDSCHPC, id-STTD-SupportIndicator, id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD, id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-timeSlot-ISCP, 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-ModifvInformation-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-SetupRgstTDD, id-UL-CCTrCH-InformationList-RL-SetupRgstTDD, id-UL-CCTrCH-InformationListIE-PhyChReconfRqstTDD, id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD, id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD, id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-Information-RL-ReconfPrepFDD, id-UL-DPCH-Information-RL-ReconfRqstFDD, id-UL-DPCH-Information-RL-SetupRqstFDD, id-UL-DPCH-InformationItem-PhyChReconfRqstTDD, id-UL-DPCH-InformationItem-RL-AdditionRspTDD, id-UL-DPCH-InformationItem-RL-SetupRspTDD, id-UL-DPCH-InformationAddListIE-RL-ReconfReadyTDD,

id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD, id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD, id-UL-Physical-Channel-Information-RL-SetupRgstTDD. id-UL-SIRTarget, id-URA-Information, id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD, id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD, id-USCHs-to-Add, id-USCH-DeleteList-RL-ReconfPrepTDD, id-USCH-InformationListIE-RL-AdditionRspTDD, id-USCH-InformationListIEs-RL-SetupRspTDD, id-USCH-Information. id-USCH-ModifyList-RL-ReconfPrepTDD, id-USCHToBeAddedOrModifiedList-RL-ReconfReadyTDD, id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRgstTDD, id-RL-LCR-InformationResponse-RL-SetupRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD, id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD, id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD, id-USCH-LCR-InformationListIEs-RL-SetupRspTDD. id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRgstTDD, id-RL-LCR-InformationResponse-RL-AdditionRspTDD, id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD, id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD, id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD, id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD, id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD, id-UL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD, id-DL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD, id-timeSlot-ISCP-LCR-List-DL-PC-Rqst-TDD, id-TSTD-Support-Indicator-RL-SetupRqstTDD, id-TrafficClass

FROM RNSAP-Constants;

/* partly omitted */

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Release 4 289 3GPP TS 25.423 v4.3.0 (2001-12) -- RADIO LINK RECONFIGURATION PREPARE TDD **** RadioLinkReconfigurationPrepareTDD ::= SEOUENCE { protocolIEs ProtocolIE-Container {{RadioLinkReconfigurationPrepareTDD-IEs}}, ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareTDD-Extensions}} protocolExtensions OPTIONAL, . . . RadioLinkReconfigurationPrepareTDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-AllowedQueuingTime CRITICALITY reject TYPE AllowedQueuingTime PRESENCE optional } | ID id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-InformationAddList-RL-ReconfPrepTDDPRESENCE 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-ReconfPrepTDDPRESENCE 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-TDD-DCHs-to-Modify CRITICALITY reject TYPE TDD-DCHs-to-Modify PRESENCE optional ID id-DCHs-to-Add-TDD CRITICALITY reject TYPE DCH-TDD-Information PRESENCE optional ID id-DCH-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE DCH-DeleteList-RL-ReconfPrepTDD PRESENCE optional }| ID id-DSCH-ModifyList-RL-ReconfPrepTDD CRITICALITY reject TYPE DSCH-ModifyList-RL-ReconfPrepTDD PRESENCE optional } ID id-DSCHs-to-Add-TDD CRITICALITY reject TYPE DSCH-TDD-Information PRESENCE optional } | ID id-DSCH-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE DSCH-DeleteList-RL-ReconfPrepTDD PRESENCE optional PRESENCE optional } ID id-USCH-ModifyList-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-ModifyList-RL-ReconfPrepTDD ID id-USCHs-to-Add CRITICALITY reject TYPE USCH-Information PRESENCE optional } | ID id-USCH-DeleteList-RL-ReconfPrepTDD CRITICALITY reject TYPE USCH-DeleteList-RL-ReconfPrepTDD PRESENCE optional }, . . . UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF Protocolle-Single-Container { {UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IEs } } UL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-UL-CCTrCH-AddInformation-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-AddInformation-RL-ReconfPrepTDD PRESENCE mandatory UL-CCTrCH-AddInformation-RL-ReconfPrepTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID, + FCS 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 ::= {

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                                CRITICALITY reject
                                                                                     PRESENCE optional },
    { ID id-UL-SIRTarget
                                                         EXTENSION
                                                                         UL-SIR
    -- This IE shall be mandatory for 1.28Mcps TDD, not applicable for 3.84Mcps TDD.
    . . .
UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
                                                        ::= SEOUENCE (SIZE (0..maxNrOfCCTrCHs)) OF Protocolle-Single-Container { {UL-CCTrCH-
ModifyInformation-RL-ReconfPrepTDD-IEs } }
UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD CRITICALITY notify TYPE UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD PRESENCE mandatory
}
UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID.
    tFCS
                                TFCS
                                            OPTIONAL,
    tFCI-Coding
                                TFCI-Coding
                                                        OPTIONAL,
    punctureLimit
                                    PunctureLimit
                                                                OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    . . .
UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-SIRTarget
                                CRITICALITY reject
                                                                         UL-SIR
                                                                                     PRESENCE optional },
                                                         EXTENSION
    -- This IE shall be applicable for 1.28Mcps TDD only.
    . . .
ļ
                                                        ::= SEOUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { {UL-CCTrCH-
UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
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,
                                    ProtocolExtensionContainer { {UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD
                                                   ::= SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocollE-Single-Container { {DL-CCTrCH-AddInformation-
RL-ReconfPrepTDD-IEs } }
DL-CCTrCH-AddInformation-RL-ReconfPrepTDD-IEs RNSAP-PROTOCOL-IES ::= {
```

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      ID id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD CRITICALITY notify TYPE DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDDPRESENCE mandatory
}
DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    tFCS
                                TFCS,
    tFCI-Coding
                                TFCI-Coding,
    punctureLimit
                                    PunctureLimit,
    cCTrCH-TPCList
                                    CCTrCH-TPCAddList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    . . .
DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
CCTrCH-TPCAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCAddItem-RL-ReconfPrepTDD
CCTrCH-TPCAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                    CCTrCH-ID,
                                    ProtocolExtensionContainer { { CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD
                                                       := SEQUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {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
                                                        OPTTONAL.
                                    PunctureLimit
    punctureLimit
                                                                OPTIONAL,
    cCTrCH-TPCList
                                    CCTrCH-TPCModifyList-RL-ReconfPrepTDD
                                                                                 OPTIONAL,
                                    ProtocolExtensionContainer { {DL-CCTrCH-InformationModifvItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL.
    iE-Extensions
    . . .
DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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CCTrCH-TPCModifyList-RL-ReconfPrepTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCModifyItem-RL-ReconfPrepTDD
CCTrCH-TPCModifyItem-RL-ReconfPrepTDD
                                         ::= SEQUENCE {
    CCTrCH-ID
                                    CCTrCH-ID,
                                    ProtocolExtensionContainer { { CCTrCH-TPCModifyItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL.
    iE-Extensions
    . . .
CCTrCH-TPCModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD
                                                     ::= SEOUENCE (SIZE (0..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container { {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-DeleteList-RL-ReconfPrepTDD
                                            ::= SEQUENCE (SIZE (0..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepTDD
DCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID
                                DCH-ID.
    iE-Extensions
                                ProtocolExtensionContainer { {DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    . . .
DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DSCH-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCH-ModifyItem-RL-ReconfPrepTDD
DSCH-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID
                                        DSCH-ID,
    dl-ccTrCHID
                                        CCTrCH-ID
                                                                         OPTIONAL,
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr OPTIONAL,
    transportFormatSet
                                        TransportFormatSet
                                                                        OPTIONAL,
    allocationRetentionPriority
                                        AllocationRetentionPriority
                                                                        OPTIONAL,
```

```
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    schedulingPriorityIndicator
                                         SchedulingPriorityIndicator
                                                                          OPTIONAL,
    bLER
                                         BLER
                                                                          OPTIONAL,
    transportBearerRequestIndicator
                                         TransportBearerRequestIndicator.
    iE-Extensions
                                    ProtocolExtensionContainer { {DSCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    . . .
DSCH-ModifyItem-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.
                                     ProtocolExtensionContainer { {DSCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
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,
    ul-ccTrCHID
                                        CCTrCH-ID
                                                                          OPTIONAL,
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr OPTIONAL,
    transportFormatSet
                                        TransportFormatSet
                                                                          OPTIONAL,
    allocationRetentionPriority
                                        AllocationRetentionPriority
                                                                          OPTIONAL,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator
                                                                          OPTIONAL,
    bler
                                         BLER
                                                                          OPTIONAL,
    transportBearerRequestIndicator
                                        TransportBearerRequestIndicator,
    rb-Info
                                        RB-Info
                                                                          OPTIONAL,
                                        ProtocolExtensionContainer { {USCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
USCH-ModifyItem-RL-ReconfPrepTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-TrafficClass
                                    CRITICALITY ignore EXTENSION TrafficClass
                                                                                              PRESENCE optional
    ł,
    . . .
}
USCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCH-DeleteItem-RL-ReconfPrepTDD
USCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID
                                         USCH-ID,
                                     ProtocolExtensionContainer { {USCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
```

• • •

}

}

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

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

. . .

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/* partly omitted */

9.3.4 Information Element Definitions

/* partly omitted */

```
RNCsWithCellsInTheAccessedURA-List ::= SEQUENCE (SIZE (1..maxRNCinURA-1)) OF RNCsWithCellsInTheAccessedURA-Item
RNCsWithCellsInTheAccessedURA-Item ::= SEQUENCE {
    rNC-ID
                                    RNC-ID,
                                    ProtocolExtensionContainer { {RNCsWithCellsInTheAccessedURA-Item-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
}
RNCsWithCellsInTheAccessedURA-Item-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
USCH-ID
                      ::= INTEGER (0..255)
USCH-Information ::= SEQUENCE (SIZE (1..maxNoOfUSCHs)) OF USCH-InformationItem
USCH-InformationItem ::= SEQUENCE {
    uSCH-ID
                                        USCH-ID,
    ul-CCTrCH-ID
                                        CCTrCH-ID,
    trChSourceStatisticsDescriptor
                                        TrCH-SrcStatisticsDescr,
    transportFormatSet
                                        TransportFormatSet,
    allocationRetentionPriority
                                        AllocationRetentionPriority,
    schedulingPriorityIndicator
                                        SchedulingPriorityIndicator,
    rb-Info
                                        RB-Info,
    iE-Extensions
                                        ProtocolExtensionContainer { {USCH-InformationItem-ExtIEs } } OPTIONAL,
    . . .
}
USCH-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
  { ID id-TrafficClass CRITICALITY ignore EXTENSION TrafficClass
                                                                                PRESENCE mandatory
```

}

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/* partly omitted */

9.3.6 Constant Definitions

<mark>/* partly omitted */</mark>

id-timeSlot-ISCP-LCR-List-DL-PC-Rqst-TDD	ProtocolIE-ID ::= 138
id-TSTD-Support-Indicator-RL-SetupRqstTDD	ProtocolIE-ID ::= 139
id-RestrictionStateIndicator	ProtocolIE-ID ::= 142
id-Load-Value	ProtocolIE-ID ::= 233
id-Load-Value-IncrDecrThres	ProtocolIE-ID ::= 234
id-OnModification	ProtocolIE-ID ::= 235
id-Received-Total-Wideband-Power-Value	ProtocolIE-ID ::= 236
id-Received-Total-Wideband-Power-Value-IncrDecrThres	ProtocolIE-ID ::= 237
id-SFNSFNMeasurementThresholdInformation	ProtocolIE-ID ::= 238
id-Transmitted-Carrier-Power-Value	ProtocolIE-ID ::= 239
id-Transmitted-Carrier-Power-Value-IncrDecrThres	ProtocolIE-ID ::= 240
id-TUTRANGPSMeasurementThresholdInformation	ProtocolIE-ID ::= 241
id-UL-Timeslot-ISCP-Value	ProtocolIE-ID ::= 242
id-UL-Timeslot-ISCP-Value-IncrDecrThres	ProtocolIE-ID ::= 243
id-Rx-Timing-Deviation-Value-LCR	ProtocolIE-ID ::= 293
id-DPC-Mode-Change-SupportIndicator	ProtocolIE-ID ::= 19
id-TrafficClass	ProtocolIE-ID ::= 158

END

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3GPP TSG-RAN3 Meeting #27	
Orlando, USA, 18 th – 22 nd February 200	2

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	 Introduction of the NRT Load measurement type in the RNSAP Common Measurement procedures
	 Introduction of the Cell Capacity Class measurement type in the RNSAP Information Exchange procedures
	- Definitions of RT (real time) and NRT (non real time) concepts.
Consequences if #	If this CR is not approved, the agreed decisions taken in the 3GPP RAN
not approved:	WG3/GERAN Joint Meeting on RRM (11-12 Feb, Malaga, Spain) will not be applied.
Clauses affected: #	3.1, 8.5.2.2, 8.5.2.4, 8.5.6.2, 9.2.1.5C, 9.2.1.12C, 9.2.1.12D, 9.2.1.31D, 9.2.1.31E, 9.2.1.33A, 9.2.1.38, 9.2.1.39, 9.2.1.41I, 9.2.1.50B, 9.3.4, 9.3.6
Other specs %	Other core specifications %
Affected:	Test specifications O&M Specifications
Other comments: #	

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G_Specs/CRs.htm</u>. Below is a brief summary:

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

3 Definitions, symbols and abbreviations

3.1 Definitions

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

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

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

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

Successful

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

Unsuccessful

- A signalling message explicitly indicates that the EP failed.

Class 2 EPs are considered always successful.

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

UE Context: The UE Context contains the necessary information for the DRNC to communicate with a specific UE. The UE Context is created by the Radio Link Setup procedure or by the Uplink Signalling Transfer procedure when the UE makes its first access in a cell controlled by the DRNS. The UE Context is deleted by the Radio Link Deletion procedure, by the Common Transport Channel Resources Release procedure, or by the Downlink Signalling Transfer procedure when neither any Radio Links nor any common transport channels are established towards the concerning UE. The UE Context is identified by the SCCP Connection for messages using connection oriented mode of the signalling bearer and the D-RNTI for messages using connectionless mode of the signalling bearer, unless specified otherwise in the procedure text.

Distant RNC Context: The Distant RNC context is created by the first Common Measurement Initiation Procedure or Information Exchange Initiation Procedure initiated by one RNC and requested from another RNC. The Distant RNC Context is deleted after the Common Measurement Termination, the Common Measurement Failure, the Information Exchange Termination or the Information Exchange Failure procedure when there is no more Common Measurement and no more Information to be provided by the requested RNC to the requesting RNC. The Distant RNC Context is identified by an SCCP connection as, for common measurements and information exchange, only the connection oriented mode of the signalling bearer is used.

Real Time (RT): Real time bearer services are those services associated with RABs whose traffic class is defined as *Conversational* or *Streaming*.

Non Real Time (NRT): Non Real time bearer services are those services associated with RABs whose traffic class is defined as *Interactive* or *Background*.

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8 RNSAP Procedures

8.5 Global Procedures

8.5.2 Common Measurement Initiation

8.5.2.1 General

This procedure is used by an RNC to request the initiation of measurements of common resources to another RNC. The requesting RNC is referred to as RNC_1 and the RNC to which the request is sent is referred to as RNC_2 .

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

8.5.2.2 Successful Operation



Figure 30A: Common Measurement Initiation procedure, Successful Operation

The procedure is initiated with a COMMON MEASUREMENT INITIATION REQUEST message sent from the RNC₁ to the RNC₂.

Upon reception, the RNC₂ shall initiate the requested measurement according to the parameters given in the request.

Unless specified below, the meaning of the parameters are given in other specifications.

[TDD- If the Time Slot Information is provided in the *Common Measurement Object Type* IE, the measurement request shall apply to the requested time slot individually.]

If the *Common Measurement Type* IE is not set to 'SFN-SFN Observed Time Difference' and the *SFN Reporting Indicator* IE is set to "FN Reporting Required", the *SFN* IE shall be included in the measurement report or in the measurement response, the latter only in the case the *Report Characteristics* IE is set to 'On-Demand'. The reported SFN shall be the SFN at the time when the measurement value was reported by the layer 3 filter, referred to as point C in the measurement model [26]. If the *Common Measurement Type* IE is set to 'SFN-SFN Observed Time Difference', then the *SFN Reporting Indicator* IE is ignored.

If the *SFN* IE is provided, it indicates the frame for which the first measurement shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [26]. Furthermore, if the *SFN* IE is present and if the *Common Measurement Object Type* IE is set to "UP Neighbouring Cell", then the *SFN* IE relates to the Radio Frames of the Reference Cell identified by the first *UTRAN Cell Identifier* IE.

Common measurement type

If the *Common Measurement Type* IE is set to 'SFN-SFN Observed Time Difference', then the RNC₂ shall initiate the SFN-SFN Observed Time Difference measurements between the reference cell identified by *C-ID* IE and the neighbouring cells identified by the *UTRAN Cell Identifier* IE (*UC-Id*).

If the *Common Measurement Type* IE is set to 'load', the RNC2 shall initiate measurements of uplink and downlink load on the measured object. If either uplink or downlink load satisfies the requested report characteristics, the RNC2 shall report the result of both uplink and downlink measurements.

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If the *Common Measurement Type* IE is set to "RT load", the RNC₂ shall initiate measurements of uplink and downlink estimated share of RT (Real Time) traffic of the load of the measured object. If either uplink or downlink RT load satisfies the requested report characteristics, the RNC₂ shall report the result of both uplink and downlink measurements.

If the *Common Measurement Type* IE is set to "NRT load Information", the RNC₂ shall initiate measurements of uplink and downlink NRT (Non Real Time) load situation on the measured object. If either uplink or downlink NRT load satisfies the requested report characteristics, the RNC₂ shall report the result of both uplink and downlink measurements.

Report characteristics

The *Report Characteristics* IE indicates how the reporting of the measurement shall be performed. See also Annex B.

If the *Report Characteristics* IE is set to 'On-Demand', the RNC₂ shall report the result of the requested measurement immediately.

If the *Report Characteristics* IE is set to 'Periodic', the RNC₂ shall periodically initiate a Measurement Reporting procedure for this measurement, with the requested report frequency. Furthermore, if the *Common Measurement Type* IE is set to 'SFN-SFN Observed Time Difference', then all the available measurements shall be reported in the *Successful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information* IE and the neighbouring cells with no measurement result available shall be reported in the *Unsuccessful Neighbouring cell SFN-SFN Observed Time Difference Measurement* Information IE.

If the *Report Characteristics* IE is set to 'Event A', the RNC_2 shall initiate a Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the RNC_2 shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to 'Event B', the RNC_2 shall initiate a Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If no hysteresis time is given, the RNC_2 shall use the value zero for the hysteresis time.

If the *Report Characteristics* IE is set to 'Event C', the RNC_2 shall initiate a Measurement Reporting procedure when the measured entity rises more than the requested threshold within the requested time. After having reported this type of event, the next C event reporting for the same measurement cannot be initiated before the rising/falling time has elapsed since the previous event reporting.

If the *Report Characteristics* IE is set to 'Event D', the RNC_2 shall initiate a Measurement Reporting procedure when the measured entity falls more than the requested threshold within the requested time. After having reported this type of event, the next D event reporting for the same measurement cannot be initiated before the rising/falling time has elapsed since the previous event reporting.

If the *Report Characteristics* IE is set to 'Event E', the RNC₂ shall initiate the Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided, the RNC₂ shall initiate the Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the RNC₂ shall initiate the Common Measurement Reporting procedure (Report B) as well as terminating any corresponding periodic reporting. If 'Measurement Threshold 2' is not present, the RNC₂ shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the RNC₂ shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to 'Event F', the RNC₂ shall initiate the Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided the RNC₂ shall also initiate the Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the RNC₂ shall initiate the Common Measurement Reporting procedure (Report B) as well as terminating any corresponding periodic reporting. If 'Measurement Threshold 2' is not present, the RNC₂ shall use 'Measurement Threshold 1' instead. If no 'Measurement Hysteresis Time' is provided, the RNC₂ shall use the value zero as hysteresis times for both Report A and Report B.

If the *Report Characteristics* IE is set to 'On Modification', the RNC_2 shall report the result of the requested measurement immediately. Then the RNC_2 shall initiate the Common Measurement Reporting procedure in accordance to the following conditions:

- 1. If the Common Measurement Type IE is set to 'UTRAN GPS Timing of Cell Frame for LCS':
 - If the $T_{UTRAN-GPS}$ Change Limit IE is included in the $T_{UTRAN-GPS}$ Measurement Threshold Information IE, the RNC₂ shall each time a new measurement result is received from the physical layer measurement, calculate the change of $T_{UTRAN-GPS}$ value (F_n). The RNC₂ shall initiate the Common Measurement Reporting procedure and set n equal to zero when the absolute value of F_n rises above the threshold indicated by the $T_{UTRAN-GPS}$ Change Limit IE. The change of $T_{UTRAN-GPS}$ value (F_n) is calculated according to the following:

 $F_n=0$ for n=0

 $F_n = (M_n - M_{n-1}) \mod 37158912000000 - ((SFN_n - SFN_{n-1}) \mod 4096) *10*3.84*10^3*16 + F_{n-1}$ for n > 0

 F_n is the change of the T_{UTRAN-GPS} value expressed in unit [1/16 chip] when n measurement results has been received after first Common Measurement Reporting at initiation or after the last event was triggered.

 M_n is the latest measurement result received from the physical layer measurements, measured at SFN_n.

 M_{n-1} is the previous measurement result received from the physical layer measurements, measured at SFN_{n-1}.

 M_1 is the first measurement result received from the physical layer measurements after first Common Measurement Reporting at initiation or after the last event was triggered.

 M_0 is equal to the value reported in the first Common Measurement Reporting at initiation or in the Common Measurement Reporting when the event was triggered.

If the Predicted T_{UTRAN-GPS} Deviation Limit IE is included in the T_{UTRAN-GPS} Measurement Threshold Information IE, the RNC₂ shall, each time a new measurement result is received from the physical layer measurement, update the P_n and F_n. The RNC₂ shall initiate the Common Measurement Reporting procedure and set n equal to zero when F_n rises above the threshold indicated by the Predicted T_{UTRAN-GPS} Deviation Limit IE. The P_n and F_n are calculated according to the following:

 $P_n = b$ for n = 0

 $P_n = ((1+a) * ((SFN_n - SFN_{n-1}) \mod 4096) * 10*3.84*10^3*16 + P_{n-1}) \mod 37158912000000 \text{ for } n > 0$

 $F_n = min(abs(M_n - P_n), abs(M_n - P_n - 37158912000000), abs(M_n - P_n + 37158912000000))$ for n > 0

 P_n is the predicted T_{UTRAN-GPS} value when n measurement results has been received after first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported T_{UTRAN-GPS} Drift Rate value.

b is the last reported T_{UTRAN-GPS} value.

 F_n is the deviation of the last measurement result from the predicted T_{UTRAN-GPS} value (P_n) when n measurements have been received after first Common Measurement Reporting at initiation or after the last event was triggered.

 M_n is the latest measurement result received from the physical layer measurements, measured at SFN_n.

 M_1 is the first measurement result received from the physical layer measurements after first Common Measurement Reporting at initiation or after the last event was triggered.

The T_{UTRAN-GPS} Drift Rate is determined by the DRNS in an implementation-dependent way after point B (see model of physical layer measurements in [26]).

- 2. If the Common Measurement Type IE is set to 'SFN-SFN Observed Time Difference':
 - If the *SFN-SFN Change Limit* IE is included in the *SFN-SFN Measurement Threshold Information* IE, the RNC₂ shall each time a new measurement result is received from the physical layer measurement, calculate the change of SFN-SFN value (F_n). The RNC₂ shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the

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event and set n equal to zero when the absolute value of F_n rises above the threshold indicated by the *SFN-SFN Change Limit* IE. The change of the SFN-SFN value is calculated according to the following:

 $F_n=0$ for n=0

 $F_n = (M_n - a) \mod 40960$ for n > 0

 F_n is the change of the SFN-SFN value expressed in unit [1/16 chip] when n measurement results has been received after first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported SFN-SFN.

 M_n is the latest measurement result received from the physical layer measurements, measured at SFN_n.

 M_1 is the first measurement result received from the physical layer measurements after first Common Measurement Reporting at initiation or after the last event was triggered.

- If the *Predicted SFN-SFN Deviation Limit* IE is included in the *SFN-SFN Measurement Threshold Information* IE, the RNC₂ shall each time a new measurement result is received from the physical layer measurement, update the P_n and F_n . The RNC₂ shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set n equal to zero when F_n rises above the threshold indicated by the *Predicted SFN-SFN Deviation Limit* IE. The P_n and F_n are calculated according to the following:

 $P_n=b$ for n=0

 $P_n = ((a * (15*((SFN_n - SFN_{n-1}) \mod 4096) + (TS_n - TS_{n-1}))*2560*16 + P_{n-1}) \mod 40960) - 20480 \text{ for } n > 0$

 $F_n = min(abs(M_n - P_n), abs(M_n - P_n - 40960), abs(M_n - P_n + 40960))$ for n > 0

 P_n is the predicted SFN-SFN value when n measurement results has been received after first Common Measurement Reporting at initiation or after the last event was triggered.

a is the last reported *SFN-SFN* Drift Rate value.

b is the last reported SFN-SFN value.

 F_n is the deviation of the last measurement result from the predicted *SFN-SFN* value (P_n) when n measurements has been received after first Common Measurement Reporting at initiation or after the last event was triggered.

 M_n is the latest measurement result received from the physical layer measurements, measured at the Time Slot TS_n of the Frame SFN_n.

 M_1 is the first measurement result received from the physical layer measurements after first Common Measurement Reporting at initiation or after the last event was triggered.

The SFN-SFN Drift Rate is determined by the DRNS in an implementation-dependent way after point B (see model of physical layer measurements in [26]).

If the *Report Characteristics* IE is not set to 'On-Demand', the RNC₂ is required to perform reporting for a common measurement object, in accordance with the conditions provided in the COMMON MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no common measurement object(s) for which a measurement is defined exists any more the RNC₂ shall terminate the measurement locally without reporting this to RNC₁.

If at the start of the measurement, the reporting criteria are fulfilled for any of Event A, Event B, Event E or Event F, the RNC_2 shall initiate a Measurement Reporting procedure immediately, and then continue with the measurements as specified in the COMMON MEASUREMENT INITIATION REQUEST message.

Common measurement accuracy

If the *Common Measurement Type* IE is set to 'UTRAN GPS Timing of Cell Frames for LCS', then the *UTRAN GPS Timing Measurement Minimum Accuracy Class* IE included in the *Report Characteristics* IE indicates the minimum accuracy class required in the measurements.

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- If the UTRAN GPS Timing Measurement Minimum Accuracy Class IE indicates 'Class A', then the concerned RNC₂ shall perform the measurement with the highest supported accuracy according to any of the accuracy classes A, B or C.
- If the UTRAN GPS Timing Measurement Minimum Accuracy Class IE indicates the 'Class B', then the concerned RNC₂ shall perform the measurements with the highest supported accuracy according to class B or C.
- If the UTRAN GPS Timing Measurement Minimum Accuracy Class IE indicates 'Class C', then the concerned RNC₂ shall perform the measurements with the highest supported accuracy according to class C only.
- If the *Common Measurement Type* IE is set to 'SFN-SFN Observed Time Difference', then the concerned RNC₂ shall initiate the SFN-SFN observed Time Difference measurements between the reference cell identified by *UC-ID* IE and the neighbouring cells identified by their UC-ID. The *Report Characteristics* IE applies to each of these measurements.

Higher layer filtering

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

The averaging shall be performed according to the following formula.

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

The variables in the formula are defined as follows

 F_n is the updated filtered measurement result

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

 M_n is the latest received measurement result from physical layer measurements

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

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

Response message

If the RNC₂ was able to initiate the measurement requested by RNC₁ it shall respond with the COMMON MEASUREMENT INITIATION RESPONSE message sent. The message shall include the same Measurement ID that was used in the measurement request. Only in the case when the *Report Characteristics* IE is set to "On-Demand" or "On Modification", the COMMON MEASUREMENT INITIATION RESPONSE message shall contain the measurement result. It shall also the *Common Measurement Achieved Accuracy* IE in the *Common Measurement Type* IE is set to 'UTRAN GPS Timing of Cell Frame for LCS'.

Furthermore, if the *Common Measurement Type* IE is set to 'SFN-SFN Observed Time Difference', then all the available measurements shall be reported in the *Successful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information* IE and the neighbouring cells with no measurement result available shall be reported in the *Unsuccessful Neighbouring cell SFN-SFN Observed Time Difference Measurement Information* IE.

8.5.2.3 Unsuccessful Operation



Figure 30B: Common Measurement Initiation procedure, Unsuccessful Operation

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If the requested measurement cannot be initiated, the RNC₂ shall send a COMMON MEASUREMENT INITIATION FAILURE message. The message shall include the same Measurement ID that was used in the COMMON MEASUREMENT INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

Radio Network Layer Cause

- Measurement not supported for the object.
- Measurement Temporarily not Available

8.5.2.4 Abnormal Conditions

If the COMMON MEASUREMENT INITIATION REQUEST message contains the *SFN-SFN Measurement Threshold Information* IE (in the *Measurement Threshold* IE contained in the *Report Characteristics* IE) and it does not contain at least one IE, the RNC₂ shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the COMMON MEASUREMENT INITIATION REQUEST message contains the $T_{UTRAN-GPS}$ Measurement Threshold Information IE (in the Measurement Threshold IE contained in the Report Characteristics IE) and it does not contain at least one IE, the RNC₂ shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the Common Measurement Type IE is set to 'UTRAN GPS Timing of Cell Frame for LCS', but the $T_{UTRAN-GPS}$ Measurement Minimum Accuracy Class IE in the Common Measurement Accuracy IE is not received in the COMMON MEASUREMENT INITIATION REQUEST message, the RNC₂ shall regard the Common Measurement Initiation procedure as failed.

If the Common Measurement Type received in the *Common Measurement Type* IE is not <u>"load"</u>, <u>"RT load" or</u> <u>"NRT load Information"</u>, and if the Common Measurement Type received in the *Common Measurement Type* IE is not defined in ref. [11] or [15] to be measured on the Common Measurement Object Type received in the *Common Measurement Object Type* IE in the COMMON MEASUREMENT INITIATION REQUEST message the RNC₂ shall regard the Common Measurement Initiation procedure as failed.

If the *Common Measurement Type* IE is set to 'SFN-SFN Observed Time Difference', but the *Neighbouring Cell Measurement Information* IE is not received in the COMMON MEASUREMENT INITIATION REQUEST message, the RNC₂ shall regard the Common Measurement Initiation procedure as failed.

The allowed combinations of the Common measurement type and Report characteristics type are shown in the table below marked with "X". For not allowed combinations, the DRNS shall regard the Common Measurement Initiation procedure as failed.

Common	Report characteristics type								
measurement type	On Demand	Periodic	Event A	Event B	Event C	Event D	Event E	Event F	On Modification
Received total wide band power	Х	X	Х	Х	Х	Х	Х	Х	
Transmitted Carrier Power	X	X	Х	Х	Х	Х	Х	X	
UL Timeslot ISCP	Х	Х	Х	Х	Х	Х	Х	Х	
Load	Х	Х	Х	Х	Х	Х	Х	Х	
UTRAN GPS Timing of Cell Frames for LCS	X	X							X
SFN-SFN Observed Time Difference	X	X							X
RT load	X	Х	X	X	X	X	X	X	
NRT load Information	X	X	X	X	X	X	X	X	

Table 4: Allowed Common measurement type and Report characteristics type combinations

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[TDD - If the common measurement type requires the Time Slot Information but the *Time Slot* IE is not provided in the *Common Measurement Object Type* IE in the COMMON MEASUREMENT INITIATION REQUEST message the DRNS shall regard the Common Measurement Initiation procedure as failed.]

8.5.6 Information Exchange Initiation

8.5.6.1 General

This procedure is used by a RNC to request the initiation of an information exchange with another RNC.

This procedure uses the signalling bearer connection for the relevant Distant RNC Context.

8.5.6.2 Successful Operation



Figure 30F: Information Exchange Initiation procedure, Successful Operation

The procedure is initiated with an INFORMATION EXCHANGE INITIATION REQUEST message sent from RNC₁ to RNC₂.

Upon reception, the RNC_2 shall provide the requested information according to the parameters given in the request. Unless specified below, the meaning of the parameters are given in other specifications.

Information Report Characteristics:

The Information Report Characteristics IE indicates how the reporting of the information shall be performed.

If the *Information Report Characteristics* IE is set to 'On-Demand', the RNC₂ shall report the requested information immediately.

If the *Information Report Characteristics* IE is set to 'Periodic', the RNC_2 shall periodically initiate the Information Reporting procedure for all the requested information, with the requested report frequency.

If the *Information Report Characteristics* IE is set to 'On-Modification', the RNC₂ shall report the requested information immediately and then shall initiate the Information Reporting procedure in accordance to the following conditions:

- If the *Information Type Item* IE is set to 'IPDL Parameters', the RNC₂ shall initiate the Information Reporting procedure when any change in the parameters occurs.
- If the *Information Type Item* IE is set to 'DGPS Corrections', the RNC₂ shall initiate the Information Reporting procedure for this specific Information Type when either the PRC has drifted from the previously reported value more than the threshold indicated in the *PRC Deviation* IE or a change has occurred in the IODE.
- If the *Information Type Item* IE is set to 'GPS Information' and the *GPS Information Item* IE includes 'GPS Navigation Model & Recovery Assistance', the RNC₂ shall initiate the Information Reporting procedure for this specific GPS Information Type when a change has occurred regarding either the IODC or the list of visible satellites, identified by the *SatID* IEs.
- If the *Information Type Item* IE is set to 'GPS Information' and the *GPS Information Item* IE includes 'GPS Ionospheric Model', the RNC₂ shall initiate the Information Reporting procedure for this specific GPS Information Type when any change has occurred.
- If the *Information Type Item* IE is set to 'GPS Information' and the *GPS Information Item* IE includes 'GPS UTC Model', the RNC₂ shall initiate the Information Reporting procedure for this specific GPS Information Type when a change has occurred in the t_ot parameter.

- If the *Information Type Item* IE is set to 'GPS Information' and the *GPS Information Item* IE includes 'GPS Almanac', the RNC₂ shall initiate the Information Reporting procedure for this specific GPS Information Type when any change has occurred.
- If the *Information Type Item* IE is set to 'GPS Information' and the *GPS Information Item* IE includes 'GPS Real-Time Integrity', the RNC₂ shall initiate the Information Reporting procedure for this specific GPS Information Type when any change has occurred.
- If the *Information Type* IE is set to "Cell Capacity Class", the RNC₂ shall initiate the Information Reporting procedure for uplink and downlink cell capacity class. If either uplink or downlink cell capacity class satisfies the requested report characteristics, the RNC₂ shall report the result of both uplink and downlink cell capacity information.

Response message:

If the RNC₂ was able to determine the information requested by the RNC₁, it shall respond with the INFORMATION EXCHANGE INITIATION RESPONSE message. The message shall include the same Information Exchange ID that was included in the INFORMATION EXCHANGE REQUEST message.

If the *Requested Data Value* IE is included in the INFORMATION EXCHANGE INITIATION RESPONSE message, it shall include at least one IE.

8.5.6.3 Unsuccessful Operation



Figure 30G: Information Exchange Initiation procedure, Unsuccessful Operation

If the requested Information Type received in the *Information Type* IE indicates a type of information that RNC₂ cannot provide, the RNC₂ shall regard the Information Exchange Initiation procedure as failed.

If the requested information provision cannot be carried out, the RNC₂ shall send the INFORMATION EXCHANGE INITIATION FAILURE message. The message shall include the same Information Exchange ID that was used in the INFORMATION EXCHANGE INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

Radio Network Layer Cause:

Information temporarily not available.

Information Provision not supported for the object.

8.5.6.4 Abnormal Conditions

9 Elements for RNSAP Communication

9.2 Information Element Functional Definition and Contents

9.2.1.5C Cell Capacity Class Value

The *Cell Capacity Class Value* IE contains the capacity class for both the uplink and downlink. Cell Capacity Class is the value that classifies the cell capacity with regards to the other cells.

IE/Group Name	Presence	<u>Range</u>	IE Type and Reference	Semantics Description
Uplink Cell Capacity Class Value	M		<u>INTEGER(1.</u> .100,)	Value 1 shall indicate the minimum capacity class, and 100 shall indicate the maximum capacity class. Capacity class should be measured on a linear scale.
Downlink Cell Capacity Class Value	M		<u>INTEGER(1.</u> . <u>100,)</u>	Value 1 shall indicate the minimum capacity class, and 100 shall indicate the maximum capacity class. Capacity class should be measured on a linear scale.

9.2.1.12C Common Measurement Type

The Common Measurement Type identifies which measurement that shall be performed.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Common Measurement Type			ENUMERATED	UL timeslot ISCP shall only
			(UTRAN GPS	be used by TDD
			Timing of Cell	
			Frames for	
			LCS,	
			SFN-SFN	
			Observed Time	
			Difference,	
			load,	
			transmitted	
			carrier power,	
			received total	
			wide band	
			power, UL	
			timeslot ISCP,	
			<u>, RT Load,</u>	
			NRT Load	
			Information)	

9.2.1.12D Common Measurement Value

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

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Release 4	16			3GPP TS 25.423 V4.3.0 (2001-12)			
IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description			
CHOICE Common Measurement Value							
> T _{UTRAN-GPS} Measurement Value Information							
>>T _{UTRAN-GPS} Measurement Value Information	Μ		9.2.1.59D				
> SFN-SFN Measurement Value Information							
>>SFN-SFN Measurement Value Information	М		9.2.1.52C				
>Load Value	N.4		0.0.1.004				
>>Load Value >Transmitted Carrier Power Value			9.2.1.33A				
>>Transmitted Carrier Power Value	М		Transmitted Carrier Power 9.2.1.59A				
>Received Total Wide Band Power Value							
>>Received Total Wide Band Power Value	М		Received Total Wide Band Power 9.2.2.35A				
>UL Timeslot ISCP Value				TDD Only			
>>UL Timeslot ISCP Value	Μ		UL Timeslot ISCP 9.2.3.13A				
<u>>RT Load Value</u>							
>RT Load Value	<u>M</u>		<u>9.2.1.50B</u>				
<u>>NRT Load Information Value</u>	<u> </u>						
>NRT Load Information Value	M		<u>9.2.1.411</u>				

9.2.1.31D Information Threshold

The Information Threshold indicates which kind of information shall trigger the Information Reporting procedure.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Information Type Item	Μ			
>DGPS				
>>PRC Deviation	М		ENUMERAT ED (1, 2, 5, 10,)	PRC deviation in meters from the previously reported value, which shall trigger a report
>Cell Capacity Class				
>>Cell Capacity Class	M		<u>INTEGER(1.</u> .100,)	<u>1 is the minimum indicated</u> <u>cell capacity class, and 100 is</u> <u>the maximum indicated cell</u> <u>capacity class.</u>

9.2.1.31E Information Type

The Information Type indicates which kind of information the RNS shall provide.

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IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Information Type Item	M		ENUMERAT	
			(UTRAIN	
			Access Point	
			Position with	
			Paramotors	
			CDS	
			Information	
			DGPS	
			Corrections,	
			Pos SEN-	
			SEN	
			Measureme	
			nt Reference	
			Point	
			Position,,	
			Cell	
			Capacity	
			Class)	
GPS Information	C-GPS	1 <maxnoofgpstype s></maxnoofgpstype 		
>GPS Information Item		-	ENUMERAT	
			ED	
			(GPS	
			Navigation	
			Model and	
			Time	
			Recovery,	
			GPS	
			Ionospheric	
			Model,	
			GPS UTC	
			Model, GPS	
			Almanac,	
			GPS Real-	
			Time	
			Integrity,	
)	

Condition	Explanation
GPS	This IE shall be present if the Information Type IE indicates
	'GPS Information'

Range Bound	Explanation
MaxnoofGPSTypes	Maximum number of GPS Information Types supported in one Information Exchange.

9.2.1.33A Load Value

The *Load Value* IE contains the total load for both the uplink and downlink. It is defined as the load percentage of the Cell Capacity Class.

Release 4		18	30	3GPP TS 25.423 V4.3.0 (2001-12)		
IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description		
Uplink Load Value	М		INTEGER(0. .9)	Value 0 shall indicate the minimum load, and 9 shall indicate the maximum load. Load should be measured on a linear scale.		
Downlink Load Value	M		INTEGER(0. .9)	Value 0 shall indicate the minimum load, and 9 shall indicate the maximum load. Load should be measured on a linear scale.		

9.2.1.38 Measurement Increase/Decrease Threshold

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

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	1			
IE/ Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Measurement				
>3/K				
>>SIK	M		.62)	0: 0 dB 1: 0.5 dB 2: 1 dB
>SIR Error				62: 31dB FDD Only
>>SIR Error	М		INTEGER(0	0: 0 dB
			.124)	1: 0.5 dB 2: 1 dB
				124: 62 dB
>Transmitted Code Power				
>>Transmitted Code Power	M		INTEGER(0. .112,)	0: 0 dB 1: 0.5 dB 2: 1 dB
				112: 56 dB
>KSCP				TDD Only
>>RSCP	М		INTEGER(0. .126)	0: 0 dB 1: 0.5 dB 2: 1 dB
				126: 63 dB
>Round Trip Time				FDD Only
>>Round Trip Time	M		INTEGER(0. .32766)	0: 0 chips 1: 0.0625 chips 2: 0.1250 chips
				32766: 2047.875 chips
>Load				
>>Load	М		.9)	Units are the same as for the Uplink Load Value IE and Dowlink Load Value IE.
> Transmitted Carrier	NA			According to mapping in [22]
Power	IVI		.100)	and [24].
Power				
>>Received Total Wide Band Power	M		INTEGER(0. .620)	0: 0dB 1: 0.1dB 2: 0.2dB
				620: 62dB
>UL Timeslot ISCP >>UL Timeslot ISCP	C- Threshold		INTEGER(0. .126)	TDD Only 0: 0dB 1: 0.5dB 2: 1dB
				 126: 63dB
<u>>RT Load</u>				
>>RT Load	M		<u>INTEGER(0.</u> .100)	Units are the same as for the Uplink RT Load Value IE and Downlink RT Load Value IE.
> NRT Load Information				
>>NRT Load Information	M		<u>INTEGER(0.</u> .3)	

9.2.1.39 Measurement Threshold

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

Release 4		20	3PP TS 25.423 V4.3.0 (2001-12)	
IE/ Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Measurement				
Threshold				
>SIR				
>>SIR	Μ		INTEGER(0. .63)	According to mapping in ref. [23] and [24].
>SIR Error				FDD Only
>>SIR Error	Μ		INTEGER(0. .125)	According to mapping in [23]
>Transmitted Carrier Power				
>>Transmitted Code Power	М		INTEGER(0. .127)	According to mapping in ref. [23] and [24].
>RSCP				TDD Only
>>RSCP	М		INTEGER(0. .127)	According to mapping in ref. [24]
>Rx Timing Deviation			,	TDD Only
>>Rx Timing Deviation	М		INTEGER(0. .8191)	According to mapping in [24]
>Round Trip Time			,	FDD Only
>>Round Trip Time	М		INTEGER(0. .32767)	According to mapping in [23]
> T _{UTRAN-GPS} Measurement Threshold Information				
>>T _{UTRAN-GPS} Measurement Threshold Information	Μ		9.2.1.59C	
> SFN-SFN Measurement				
Threshold Information				
>SFN-SFN Measurement Threshold Information	Μ		9.2.1.52B	
>Load				
>>Load	М		INTEGER(0. .9)	0 is the minimum indicated load, and 9 is the maximum indicated load.
>Transmitted Carrier Power				
>>Transmitted Carrier Power	Μ		INTEGER(0. .100)	According to mapping in [23] and [24].
>Received Total Wide Band Power				
>Received Total Wide Band Power	Μ		INTEGER(0. .621)	According to mapping in [23] and [24].
>UL Timeslot ISCP				TDD Only
>>UL Timeslot ISCP	Μ		INTEGER(0. .127)	According to mapping in [24]
<u>>RT Load</u>				
>RT Load	M		<u>INTEGER(0.</u> .100)	
>NRT Load Information				
>NRT Load Information	M		<u>INTEGER(0.</u> . <u>3)</u>	

9.2.1.411 NRT Load Information Value

The *NRT Load Information* IE indicates the load situation on the cell for the Non Real-Time traffic. Non Real Time traffic corresponds to the Interactive and Background traffic classes.
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IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
Uplink NRT Load Information Value	M		<u>INTEGER</u> (03)	Mapping of the status: 0: low: The Uplink NRT load is low. 1: medium: The Uplink NRT load is medium. 2: high: Uplink NRT load is high. Probability to admit a new user is low. 3: overloaded: Uplink NRT overload. The probability to admit a new user is low, packets are discarded and the source is recommended to reduce the data flow.
Downlink NRT Load Information Value	M		<u>INTEGER</u> (03)	Mapping of the status: 0: low: The Downlink NRT load is low. 1: medium: The Downlink NRT load is medium. 2: high: Downlink NRT load is high. Probability to admitt a new user is low. 3: overloaded: Downlink NRT overload. The probability to admit a new user is low, packets are discarded and the source is recommended to reduce the data flow.

9.2.1.48A Requested Data Value

The Requested Data Value contains the relevant data concerning the ongoing information exchange.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
UTRAN Access Point Position with Altitude	0		9.2.1.75	
IPDL Parameters	0		9.2.1.31F	
DGPS Corrections	0		9.2.1.19B	
GPS Navigation Model and	0		9.2.1.301	
Time Recovery				
GPS Ionospheric Model	0		9.2.1.30H	
GPS UTC Model	0		9.2.1.30L	
GPS Almanac	0		9.2.1.30G	
GPS Real-Time Integrity	0		9.2.1.30J	
GPS RX Pos	0		9.2.1.30K	
SFN-SFN Measurement	0		9.2.1.74	
Reference Point Position				
Cell Capacity Class Value	<u>0</u>		<u>9.2.1.5C</u>	

9.2.1.50B RT Load Value

The *RT Load Value* IE indicates the ratio of the load generated by Real Time traffic, relative to the measured Cell Load. Real Time traffic corresponds to the Conversational and Streaming traffic classes.

Release 4		22	30	3GPP TS 25.423 V4.3.0 (2001-12)	
IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	
Uplink RT Load Value	M		<u>INTEGER(0.</u> .100)	Value 0 shall indicate the minimum RT load, and 100 shall indicate the maximum RT load. Load should be measured on a linear scale.	
Downlink RT Load Value	M		<u>INTEGER(0.</u> .100)	Value 0 shall indicate the minimum RT load, and 100 shall indicate the maximum RT load. Load should be	

9.3 Message and Information element abstract syntax (with ASN.1)

9.3.4 Information Element Definitions

***** ___ ___ -- Information Element Definitions _ _ __ ********* RNSAP-IEs itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-IEs (2) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN IMPORTS maxCodeNumComp-1, maxNrOfFACHs, maxFACHCountPlus1, maxIBSEG, maxNoOfDSCHs, maxNoOfUSCHs, maxNoTFCIGroups, maxNoCodeGroups, maxNrOfDCHs, maxNrOfDL-Codes, maxNrOfDLTs, maxNrOfDLTsLCR maxNrOfDPCHs, maxNrOfDPCHsLCR, maxNrOfErrors, maxNrOfFDDNeighboursPerRNC, maxNrOfMACcshSDU-Length, maxNrOfNeighbouringRNCs, maxNrOfTDDNeighboursPerRNC, maxNrOfLCRTDDNeighboursPerRNC, maxNrOfTS, maxNrOfULTs, maxNrOfULTsLCR, maxNrOfGSMNeighboursPerRNC, maxRateMatching, maxNrOfPoints, maxNoOfRB, maxNrOfTFCs, maxNrOfTFs,

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maxCTFC,
maxRNCinURA-1.

maxNrOfSCCPCHs. maxTFCI1Combs, maxTFCI2Combs, maxTFCI2Combs-1, maxTGPS, maxTTI-Count, maxNoGPSTypes, maxNoSat, id-Allowed-Rate-Information. id-Cell-Capacity-Class-Value, id-Cell-Capacity-Class-Value-ThresholdInformation, id-DPC-Mode-Change-SupportIndicator, id-Guaranteed-Rate-Information, id-Load-Value, id-Load-Value-IncrDecrThres, id-Neighbouring-GSM-CellInformation, id-Neighbouring-UMTS-CellInformationItem, id-neighbouring-LCR-TDD-CellInformation, id-NRT-Load-Information-Value, id-NRT-Load-Information-Value-IncrDecrThres, id-OnModification. id-Received-Total-Wideband-Power-Value, id-Received-Total-Wideband-Power-Value-IncrDecrThres, id-RT-Load-Value, id-RT-Load-Value-IncrDecrThres, id-SFNSFNMeasurementThresholdInformation, id-Transmitted-Carrier-Power-Value, id-Transmitted-Carrier-Power-Value-IncrDecrThres, id-TUTRANGPSMeasurementThresholdInformation, id-UL-Timeslot-ISCP-Value, id-UL-Timeslot-ISCP-Value-IncrDecrThres, maxNrOfLevels. maxNrOfMeasNCell, maxNrOfMeasNCell-1, id-MessageStructure, id-EnhancedDSCHPC, id-RestrictionStateIndicator, id-Rx-Timing-Deviation-Value-LCR, id-TypeOfError FROM RNSAP-Constants Criticality, ProcedureID, ProtocolIE-ID, TransactionID, TriggeringMessage FROM RNSAP-CommonDataTypes

```
ProtocolIE-Single-Container{},
    ProtocolExtensionContainer{},
    RNSAP-PROTOCOL-IES.
    RNSAP-PROTOCOL-EXTENSION
FROM RNSAP-Containers;
.
<Parts of the ASN.1 module is omitted>
-- A
Active-Pattern-Sequence-Information ::= SEQUENCE {
    cMConfigurationChangeCFN
                                    CFN,
    transmission-Gap-Pattern-Sequence-Status
                                                 Transmission-Gap-Pattern-Sequence-Status-List
                                                                                                    OPTIONAL,
    iE-Extensions
                        ProtocolExtensionContainer { {Active-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
    . . .
Active-Pattern-Sequence-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
AdjustmentPeriod
                            ::= INTEGER(1..256)
-- Unit Frame
AllocationRetentionPriority ::= SEQUENCE {
    priorityLevel
                                PriorityLevel,
    pre-emptionCapability
                                Pre-emptionCapability,
    pre-emptionVulnerability
                                Pre-emptionVulnerability,
                                ProtocolExtensionContainer { {AllocationRetentionPriority-ExtIEs} } OPTIONAL,
        iE-Extensions
        . . .
}
AllocationRetentionPriority-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Allowed-Rate-Information
                            ::= SEQUENCE
    allowed-UL-Rate
                            Allowed-Rate OPTIONAL,
    allowed-DL-Rate
                            Allowed-Rate OPTIONAL,
    iE-Extensions
                            ProtocolExtensionContainer { {Allowed-Rate-Information-ExtIEs} } OPTIONAL,
    . . .
}
Allowed-Rate-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
}
Allowed-Rate
                     ::= INTEGER (1..maxNrOfTFs)
AllowedQueuingTime
                       ::= INTEGER (1..60)
-- seconds
AlphaValue
                          ::= INTEGER (0..8)
-- Actual value = Alpha / 8
-- B
BadSatellites ::= SEQUENCE {
    badSatelliteInformation
                               SEQUENCE (SIZE (1..maxNoSat)) OF
       SEQUENCE {
           badSAT-ID
                                       SAT-ID,
                                       ProtocolExtensionContainer { { BadSatelliteInformation-ExtIEs } }
           iE-Extensions
                                                                                                             OPTIONAL,
           . . .
       },
                                ProtocolExtensionContainer { { BadSatellites-ExtIEs } }
    iE-Extensions
                                                                                            OPTIONAL,
    . . .
}
BadSatelliteInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
BadSatellites-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Band-Indicator ::= ENUMERATED {
    dcs1800Band,
    pcs1900Band,
    . . .
}
BCC ::= BIT STRING (SIZE (3))
BCCH-ARFCN ::= INTEGER (0..1023)
BetaCD ::= INTEGER (0..15)
BindingID
                      ::= OCTET STRING (SIZE (1..4,...))
BLER
                       ::= INTEGER (-63..0)
-- Step 0.1 (Range -6.3..0). It is the Log10 of the BLER
SCTD-Indicator ::= ENUMERATED {
    active,
    inactive
```

```
}
BSIC ::= SEQUENCE {
    nCC
                NCC,
    bCC
                BCC
l
BurstModeParameters ::= SEQUENCE {
    burstStart
                    INTEGER (0..15),
    burstLength
                    INTEGER (10..25),
    burstFreq
                    INTEGER (1..16),
                                 ProtocolExtensionContainer { { BurstModeParameters-ExtIEs } }
    iE-Extensions
                                                                                                     OPTIONAL,
    . . .
BurstModeParameters-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
-- 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 {
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified.
    abstract-syntax-error-falsely-constructed-message,
    . . .
}
CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID,
```

cell-not-available, power-level-not-supported, ul-scrambling-code-already-in-use, dl-radio-resources-not-available, ul-radio-resources-not-available, measurement-not-supported-for-the-object, combining-resources-not-available, combining-not-supported, reconfiguration-not-allowed, requested-configuration-not-supported, synchronisation-failure, requested-tx-diversity-mode-not-supported, measurement-temporaily-not-available, unspecified, invalid-CM-settings, reconfiguration-CFN-not-elapsed, number-of-DL-codes-not-supported, dedicated-transport-channel-type-not-supported, dl-shared-channel-type-not-supported, ul-shared-channel-type-not-supported, common-transport-channel-type-not-supported, ul-spreading-factor-not-supported, dl-spreading-factor-not-supported, cm-not-supported, transaction-not-supported-by-destination-node-b, rl-already-activated-or-alocated, . . . , number-of-UL-codes-not-supported, dpc-mode-change-not-supported, information-temporarily-not-available, information-provision-not-supported-for-the-object, cell-reserved-for-operator-use J CauseTransport ::= ENUMERATED transport-resource-unavailable, unspecified, . . . ::= INTEGER (0..65535) C-ID CCTrCH-ID ::= INTEGER (0..15) Cell-Capacity-Class-Value ::= SEOUENCE { uplinkCellCapacityClassValue INTEGER(1..100,...), downlinkCellCapacityClassValue INTEGER(1..100,...) Cell-Capacity-Class-Value-ThresholdInformation ::= INTEGER(1..100,...)

```
CellIndividualOffset
                      ::= INTEGER (-20..20)
CellParameterID
                           ::= INTEGER (0..127,...)
CFN
                    ::= INTEGER (0..255)
CGI ::= SEQUENCE {
   lai
                SEQUENCE {
       pLMN-Identity PLMN-Identity,
        lac
                        LAC,
                                ProtocolExtensionContainer { {LAI-ExtIEs} } OPTIONAL,
       iE-Extensions
        . . .
    },
    сI
                    CI,
                            ProtocolExtensionContainer { {CGI-ExtIEs} } OPTIONAL
    iE-Extensions
ļ
LAI-EXTIES RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CGI-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
ChannelCodingType ::= ENUMERATED {
    no-coding,
    convolutional-coding,
    turbo-coding,
    . . .
}
ChipOffset
                      ::= INTEGER (0..38399)
CI
                    ::= OCTET STRING (SIZE (2))
ClosedLoopModel-SupportIndicator
                                    ::= ENUMERATED {
    closedLoop-Model-Supported,
    closedLoop-Model-not-Supported
}
ClosedLoopMode2-SupportIndicator
                                    ::= ENUMERATED {
    closedLoop-Mode2-Supported,
    closedLoop-Mode2-not-Supported
}
Closedlooptimingadjustmentmode ::= ENUMERATED {
    adj-1-slot,
    adj-2-slot,
    . . .
}
```

```
CodeNumber ::= INTEGER (0..maxCodeNumComp-1)
CodingRate ::= ENUMERATED {
    half,
    third,
    . . .
CommonMeasurementAccuracy ::= CHOICE
    tUTRANGPSMeasurementAccuracyClass
                                             TUTRANGPSAccuracyClass,
    . . .
ι
CommonMeasurementType ::= ENUMERATED {
    uTRAN-GPS-timing-of-cell-frames-for-LCS,
    sFN-SFN-observerd-time-difference,
    load,
    transmitted-carrier-power,
    received-total-wide-band-power,
    uplink-timeslot-iscp,
    · · · <u>/</u>
    rT-load,
    nRT-load-Information
CommonMeasurementValue ::= CHOICE {
    tUTRANGPSMeasurementValueInformation
                                             TUTRANGPSMeasurementValueInformation,
    sFNSFNMeasurementValueInformation
                                             SFNSFNMeasurementValueInformation,
    loadValue
                                         LoadValue,
    transmittedCarrierPowerValue
                                         INTEGER(0..100),
    receivedTotalWideBandPowerValue
                                         INTEGER(0..621),
    uplinkTimeslotISCPValue
                                         UL-TimeslotISCP,
    · · · ,
                                         RTLoadValue,
    rTLoadValue
    nRTLoadInformationValue
                                         NRTLoadInformationValue
CommonMeasurementValueInformation ::= CHOICE {
    measurementAvailable
                                 CommonMeasurementAvailable,
    measurementnotAvailable
                                 NULL
CommonMeasurementAvailable::= SEQUENCE {
    commonMeasurementValue
                                 CommonMeasurementValue,
                                     ProtocolExtensionContainer { { CommonMeasurementAvailableItem-ExtIEs } }
    iE-Extensions
                                                                                                                    OPTIONAL,
    . . .
}
CommonMeasurementAvailableItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

```
}
CongestionCause ::= ENUMERATED {
    uTRAN-dynamic-resources,
    uTRAN-semistatic-resources,
    . . .
CRC-Size
                        ::= ENUMERATED {
    v0,
    v8,
    v12.
    v16.
    v24,
    . . .
CriticalityDiagnostics ::= SEQUENCE {
    procedureID
                                ProcedureID
                                                     OPTIONAL,
    triggeringMessage
                                TriggeringMessage
                                                         OPTIONAL,
    procedureCriticality
                                Criticality
                                                         OPTIONAL,
                                                         OPTIONAL,
    transactionID
                                TransactionID
    iEsCriticalityDiagnostics
                                     CriticalityDiagnostics-IE-List OPTIONAL,
    iE-Extensions
                                ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} } OPTIONAL,
    . . .
CriticalityDiagnostics-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
    SEQUENCE {
        iECriticality
                                Criticality,
        iE-ID
                                ProtocolIE-ID,
        repetitionNumber
                                RepetitionNumber0
                                                         OPTIONAL,
        iE-Extensions
                                ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} } OPTIONAL,
        . . .
CriticalityDiagnostics-IE-List-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ID id-MessageStructure
                                CRITICALITY ignore
                                                         EXTENSION MessageStructure
                                                                                          PRESENCE optional }
    ID id-TypeOfError
                                CRITICALITY ignore
                                                         EXTENSION TypeOfError
                                                                                          PRESENCE mandatory },
    . . .
MessageStructure ::= SEQUENCE (SIZE (1..maxNrOfLevels)) OF
    SEQUENCE {
        iE-ID
                                ProtocolIE-ID,
        repetitionNumber
                                RepetitionNumber1
                                                         OPTIONAL,
        iE-Extensions
                                ProtocolExtensionContainer { {MessageStructure-ExtIEs} } OPTIONAL,
```

. . .

```
ι
MessageStructure-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CN-CS-DomainIdentifier ::= SEQUENCE {
                       PLMN-Identity,
    pLMN-Identity
    lac
                        LAC,
                        ProtocolExtensionContainer { {CN-CS-DomainIdentifier-ExtIEs} } OPTIONAL
    iE-Extensions
}
CN-CS-DomainIdentifier-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CN-PS-DomainIdentifier ::= SEQUENCE {
    pLMN-Identity
                       PLMN-Identity,
   lac
                        LAC,
   rAC
                        RAC,
                       ProtocolExtensionContainer { {CN-PS-DomainIdentifier-ExtIEs} } OPTIONAL
    iE-Extensions
}
CN-PS-DomainIdentifier-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CNDomainType
                ::= ENUMERATED {
    cs-domain,
   ps-domain,
   dont-care,
    . . .
-- See in [16]
C-RNTI
                       ::= INTEGER (0..65535)
.
•
<Parts of the ASN.1 module is omitted>
٠
.
-- I
IB-SchedulingInformation::= SEQUENCE {
    iB-SG-Rep
                                    IB-SG-REP,
    iB-segmentInformationList
                                    IB-SegmentInformationList,
```

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```
ProtocolExtensionContainer { { IB-SchedulingInformation-ExtIEs } } OPTIONAL,
    iE-Extensions
        . . .
IB-SchedulingInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
IB-SegmentInformationList ::= SEQUENCE (SIZE(1..maxIBSEG)) OF IB-SegmentInformationItem
IB-SegmentInformationItem ::= SEQUENCE {
    iB-SG-POS
                                    IB-SG-POS,
    iE-Extensions
                                    ProtocolExtensionContainer { { IB-SegmentInformationItem-ExtIEs } } OPTIONAL,
    . . .
ļ
IB-SegmentInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
IB-SG-POS ::= INTEGER (0..4094)
-- Only even positions allowed
IB-SG-REP
          := ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024, rep2048, rep4096}
IMSI
            ::= OCTET STRING (SIZE(3..8))
InformationAvailable::= SEQUENCE {
    requestedDataValue
                            RequestedDataValue,
                            ProtocolExtensionContainer { { InformationAvailable-ExtIEs} }
    iE-Extensions
                                                                                                 OPTIONAL,
InformationAvailable-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
InformationExchangeID ::= INTEGER (0..1048575)
InformationNotAvailable ::= NULL
InformationReportCharacteristics ::= CHOICE {
    onDemand
                            NULL,
    periodic
                            PeriodicInformation,
                            OnModificationInformation,
    onModification
    . . .
InformationReportPeriodicity ::= CHOICE {
    min
                    INTEGER (1..60,...),
-- Unit min, Step 1min
```

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```
hour
                    INTEGER (1...24,...),
-- Unit hour, Step 1hour
    . . .
InformationThreshold ::= CHOICE {
    dGPSThreshold
                        DGPSThreshold,
    · · · <u>/</u>
    extension-InformationThreshold
                                         Extension-InformationThreshold
Extension-InformationThreshold ::= ProtocolIE-Single-Container {{ Extension-InformationThresholdIE }}
Extension-InformationThresholdIE RNSAP-PROTOCOL-IES ::= {
    { ID id-Cell-Capacity-Class-Value-ThresholdInformation CRITICALITY reject TYPE Cell-Capacity-Class-Value-ThresholdInformation PRESENCE
mandatory }
InformationType ::= SEQUENCE {
    informationTypeItem
                            ENUMERATED {
        gA-AccessPointPositionwithAltitude,
        qA-AccessPointPosition,
        iPDLParameters,
        qPSInformation,
        dGPSCorrections,
        gPS-RX-POS,
        sFNSFN-GA-AccessPointPosition,
        · · · ,
        cell-Capacity-Class
    },
    gPSInformation
                                 GPSInformation
                                                         OPTIONAL,
    iE-Extensions
                                ProtocolExtensionContainer { { InformationType-ExtIEs } }
                                                                                                  OPTIONAL,
    . . .
-- The GPS Information IE shall be present if the Information Exchange Type IE indicates 'GPS Information'
InformationType-Extles RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
InnerLoopDLPCStatus
                       ::= ENUMERATED {active, inactive}
IPDLParameters ::= CHOICE {
    iPDL-FDD-Parameters
                                IPDL-FDD-Parameters,
    iPDL-TDD-Parameters
                                IPDL-TDD-Parameters
}
IPDL-FDD-Parameters ::= SEQUENCE {
    iPSpacingFDD
                                 IPSpacingFDD,
    iPLength
                                IPLength,
```

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```
iPOffset
                                 IPOffset,
    seed
                                 Seed.
    burstModeParameters
                                 BurstModeParameters
                                                          OPTIONAL.
                                 ProtocolExtensionContainer { { IPDL-FDD-Parameters-ExtIEs} }
    iE-Extensions
                                                                                                     OPTIONAL,
    . . .
l
IPDL-FDD-Parameters-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
IPDL-TDD-Parameters ::= SEQUENCE {
    iPSpacingTDD
                                 IPSpacingTDD,
    iPStart
                                 IPStart,
    iPSlot
                                 IPSlot,
    iP-P-CCPCH
                                 IP-P-CCPCH,
    burstModeParameters
                                 BurstModeParameters
                                                         OPTIONAL,
    iE-Extensions
                                 ProtocolExtensionContainer { { IPDL-TDD-Parameters-ExtIEs } }
                                                                                                     OPTIONAL,
    . . .
}
-- The BurstModeParameters IE shall be included if the Idle Periods are arranged in Burst Mode.
IPDL-TDD-Parameters-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
IPLength ::= ENUMERATED {
    ipl5,
    ipl10,
    . . .
}
IPOffset ::= INTEGER (0..9)
IP-P-CCPCH ::= ENUMERATED {
    switchOff-1-Frame,
    switchOff-2-Frames
}
IPSlot ::= INTEGER (0..14)
IPSpacingFDD ::= ENUMERATED {
    ipsF5,
    ipsF7,
    ipsF10,
    ipsF15,
    ipsF20,
    ipsF30,
    ipsF40,
    ipsF50,
```

. . . } IPSpacingTDD ::= ENUMERATED { ipsT30, ipsT40, ipsT50, ipsT70, ipsT100, . . . } IPStart ::= INTEGER (0..4095) . ٠ <Parts of the ASN.1 module is omitted> . . . -- M MaxNrOfUL-DPCHs ::= INTEGER (1..6) MAC-c-sh-SDU-Length ::= INTEGER (1..5000) MAC-c-sh-SDU-LengthList ::= SEQUENCE(SIZE(1..maxNrOfMACcshSDU-Length)) OF MAC-c-sh-SDU-Length MaximumAllowedULTxPower ::= INTEGER (-50..33) MaxNrDLPhysicalchannels ::= INTEGER (1..224) MaxNrTimeslots ::= INTEGER (1..14) MaxNrULPhysicalchannels ::= INTEGER (1..2) MaxTFCIvalue ::= INTEGER (1..1023) 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

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} MaxAdjustmentStep ::= INTEGER(1..10) -- Unit Slot MeasurementChangeTime ::= INTEGER (1..6000,...) -- The MeasurementChangeTime gives the MeasurementChangeTime -- in number of 10 ms periods. -- E.g. Value 6000 means 60000ms(1min) -- Unit is ms, Step is 10 ms MeasurementHysteresisTime ::= INTEGER (1..6000,...) -- The MeasurementHysteresisTime gives the -- MeasurementHysteresisTime in number of 10 ms periods. -- E.g. Value 6000 means 60000ms(1min) -- Unit is ms, Step is 10ms ::= CHOICE { MeasurementIncreaseDecreaseThreshold sir SIR-Value-IncrDecrThres, sir-error SIR-Error-Value-IncrDecrThres, transmitted-code-power Transmitted-Code-Power-Value-IncrDecrThres, RSCP-Value-IncrDecrThres, rscp round-trip-time Round-Trip-Time-IncrDecrThres, extension-MeasurementIncreaseDecreaseThreshold Extension-MeasurementIncreaseDecreaseThreshold Extension-MeasurementIncreaseDecreaseThreshold ::= ProtocolIE-Single-Container {{ Extension-MeasurementIncreaseDecreaseThresholdIE }} Extension-MeasurementIncreaseDecreaseThresholdIE RNSAP-PROTOCOL-IES ::= { ID id-Load-Value-IncrDecrThres CRITICALITY reject TYPE Load-Value-IncrDecrThres PRESENCE mandatory } ID id-Transmitted-Carrier-Power-Value-IncrDecrThres CRITICALITY reject TYPE Transmitted-Carrier-Power-Value-IncrDecrThres PRESENCE mandatory }| { ID id-Received-Total-Wideband-Power-Value-IncrDecrThres CRITICALITY reject TYPE Received-Total-Wideband-Power-Value-IncrDecrThres PRESENCE mandatory }| ID id-UL-Timeslot-ISCP-Value-IncrDecrThres CRITICALITY reject TYPE UL-Timeslot-ISCP-Value-IncrDecrThres PRESENCE mandatory } ID id-RT-Load-Value-IncrDecrThres CRITICALITY reject TYPE RT-Load-Value-IncrDecrThres PRESENCE mandatory } ID id-NRT-Load-Information-Value-IncrDecrThres CRITICALITY reject TYPE NRT-Load-Information-Value-IncrDecrThres PRESENCE mandatory MeasurementThreshold ::= CHOICE {

sir	SIR-Value,
sir-error	SIR-Error-Value,
transmitted-code-power	Transmitted-Code-Power-Value,
rscp	RSCP-Value,
rx-timing-deviation	Rx-Timing-Deviation-Value,
round-trip-time	Round-Trip-Time-Value,
, extension-MeasurementThreshold	Extension-MeasurementThreshold

```
Release 4
```

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Extension-MeasurementThreshold ::= ProtocolIE-Single-Container {{ Extension-MeasurementThresholdIE }}

Extension-MeasurementThresholdIE RNSAP-PROTOCOL-IES ::= CRITICALITY reject TYPE TUTRANGPSMeasurementThresholdInformation ID id-TUTRANGPSMeasurementThresholdInformation PRESENCE mandatory }| ID id-SFNSFNMeasurementThresholdInformation CRITICALITY reject TYPE SFNSFNMeasurementThresholdInformation PRESENCE mandatory } | ID id-Load-Value CRITICALITY reject TYPE Load-Value PRESENCE mandatory } ID id-Transmitted-Carrier-Power-Value CRITICALITY reject TYPE Transmitted-Carrier-Power-Value PRESENCE mandatory } CRITICALITY reject TYPE Received-Total-Wideband-Power-Value ID id-Received-Total-Wideband-Power-Value PRESENCE mandatory } | ID id-UL-Timeslot-ISCP-Value CRITICALITY reject TYPE UL-Timeslot-ISCP-Value PRESENCE mandatory } ID id-RT-Load-Value CRITICALITY reject TYPE RT-Load-Value PRESENCE mandatory } ID id-NRT-Load-information-Value CRITICALITY reject TYPE NRT-Load-Information-Value PRESENCE mandatory MidambleConfigurationBurstType1And3 ::= ENUMERATED {v4, v8, v16} MidambleConfigurationBurstType2 ::= ENUMERATED {v3, v6} MidambleShiftAndBurstType ::= CHOICE { type1 SEOUENCE midambleConfigurationBurstType1And3 MidambleConfigurationBurstTypelAnd3, midambleAllocationMode CHOICE { defaultMidamble NULL, commonMidamble NULL, ueSpecificMidamble MidambleShiftLong, . . . }, . . . }, type2 SEOUENCE midambleConfigurationBurstType2 MidambleConfigurationBurstType2, midambleAllocationMode CHOICE defaultMidamble NULL, commonMidamble NULL, MidambleShiftShort, ueSpecificMidamble . . . }, . . }, type3 SEOUENCE midambleConfigurationBurstTypelAnd3 MidambleConfigurationBurstTypelAnd3, midambleAllocationMode CHOICE { defaultMidamble NULL, ueSpecificMidamble MidambleShiftLong, . . . }, . . MidambleShiftLong ::= INTEGER (0..15)

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```
MidambleShiftShort ::=
                                     INTEGER (0..5)
MidambleShiftLCR ::= SEQUENCE {
    midambleAllocationMode
                                MidambleAllocationMode,
    midambleShift
                                                         OPTIONAL,
                                MidambleShiftLong
                                ProtocolExtensionContainer { {MidambleShiftLCR-ExtIEs} }
                                                                                                  OPTIONAL,
    iE-Extensions
    . . .
MidambleAllocationMode ::= ENUMERATED {
    defaultMidamble,
    commonMidamble,
    uESpecificMidamble,
    . . .
    }
MidambleShiftLCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
MinUL-ChannelisationCodeLength
                                     ::= ENUMERATED {
    v4,
    v8.
    v16,
    v32,
    v64,
    v128,
    v256
}
Modulation ::= ENUMERATED {
    qPSK,
    eightPSK,
    . . .
}
MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible
}
-- N
NCC ::= BIT STRING (SIZE (3))
Neighbouring-UMTS-CellInformation ::= SEQUENCE (SIZE (1..maxNrOfNeighbouringRNCs)) OF ProtocolIE-Single-Container {{ Neighbouring-UMTS-
CellInformationItemIE } }
Neighbouring-UMTS-CellInformationItemIE RNSAP-PROTOCOL-IES ::= {
    { ID id-Neighbouring-UMTS-CellInformationItem CRITICALITY ignore TYPE
                                                                                 Neighbouring-UMTS-CellInformationItem PRESENCE mandatory }
```

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```
Neighbouring-UMTS-CellInformationItem ::= SEQUENCE
    rNC-ID
                                            RNC-ID.
    cN-PS-DomainIdentifier
                                            CN-PS-DomainIdentifier
                                                                         OPTIONAL,
    cN-CS-DomainIdentifier
                                            CN-CS-DomainIdentifier
                                                                         OPTIONAL,
    neighbouring-FDD-CellInformation
                                            Neighbouring-FDD-CellInformation
                                                                                 OPTIONAL,
    neighbouring-TDD-CellInformation
                                            Neighbouring-TDD-CellInformation
                                                                                 OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { {Neighbouring-UMTS-CellInformationItem-ExtIEs } } OPTIONAL,
    . . .
Neighbouring-UMTS-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-neighbouring-LCR-TDD-CellInformation
                                                             CRITICALITY ignore
                                                                                                  Neighbouring-LCR-TDD-CellInformation
                                                                                                                                              PRESENCE
                                                                                      EXTENSION
optional },
    . . .
Neighbouring-FDD-CellInformation ::= SEQUENCE ( SIZE (1..maxNrOfFDDNeighboursPerRNC,...)) OF Neighbouring-FDD-CellInformationItem
Neighbouring-FDD-CellInformationItem ::= SEQUENCE {
    c-ID
                                        C-ID,
    uARFCNforNu
                                        UARFCN,
    uARFCNforNd
                                        UARFCN.
    frameOffset
                                        FrameOffset
                                                             OPTIONAL,
    primaryScramblingCode
                                        PrimaryScramblingCode,
                                        PrimaryCPICH-Power
    primaryCPICH-Power
                                                                 OPTIONAL,
    cellIndividualOffset
                                        CellIndividualOffset
                                                                 OPTIONAL,
    txDiversityIndicator
                                        TxDiversityIndicator,
    sTTD-SupportIndicator
                                        STTD-SupportIndicator
                                                                 OPTIONAL,
    closedLoopModel-SupportIndicator
                                        ClosedLoopModel-SupportIndicator
                                                                             OPTIONAL,
    closedLoopMode2-SupportIndicator
                                        ClosedLoopMode2-SupportIndicator
                                                                             OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { { Neighbouring-FDD-CellInformationItem-ExtIEs } } OPTIONAL,
    . . .
Neighbouring-FDD-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
     ID id-RestrictionStateIndicator
                                                     CRITICALITY ignore
                                                                                  EXTENSION RestrictionStateIndicator
                                                                                                                         PRESENCE optional }
     ID id-DPC-Mode-Change-SupportIndicator
                                                CRITICALITY ignore
                                                                         EXTENSION
                                                                                     DPC-Mode-Change-SupportIndicator
                                                                                                                            PRESENCE optional },
    . . .
}
NeighbouringFDDCellMeasurementInformation ::= SEQUENCE {
    uC-ID
                                        UC-ID,
    UARFCN
                                        UARFCN,
    primaryScramblingCode
                                        PrimaryScramblingCode,
    iE-Extensions
                                        ProtocolExtensionContainer { { NeighbouringFDDCellMeasurementInformationItem-ExtIEs } OPTIONAL,
    . . .
```

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

. . .

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```
Neighbouring-GSM-CellInformation ::= ProtocolIE-Single-Container {{ Neighbouring-GSM-CellInformationIE }}
Neighbouring-GSM-CellInformationIE RNSAP-PROTOCOL-IES ::= {
    { ID id-Neighbouring-GSM-CellInformation
                                              CRITICALITY ignore TYPE
                                                                            Neighbouring-GSM-CellInformationIEs PRESENCE mandatory }
Neighbouring-GSM-CellInformationIEs ::= SEQUENCE ( SIZE (1..maxNrOfGSMNeighboursPerRNC,...)) OF Neighbouring-GSM-CellInformationItem
Neighbouring-GSM-CellInformationItem ::= SEQUENCE {
    CGT
                                        CGI.
    cellIndividualOffset
                                        CellIndividualOffset
                                                                OPTIONAL,
    bSIC
                                        BSIC,
    band-Indicator
                                        Band-Indicator,
    bCCH-ARFCN
                                        BCCH-ARFCN,
    iE-Extensions
                                        ProtocolExtensionContainer { { Neighbouring-GSM-CellInformationItem-ExtIEs } } OPTIONAL,
    . . .
Neighbouring-GSM-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
Neighbouring-TDD-CellInformation ::= SEQUENCE ( SIZE (1..maxNrOfTDDNeighboursPerRNC,...)) OF Neighbouring-TDD-CellInformationItem
Neighbouring-TDD-CellInformationItem ::= SEQUENCE {
    c-ID
                                    C-ID,
    uARFCNforNt
                                    UARFCN,
    frameOffset
                                    FrameOffset
                                                         OPTIONAL,
    cellParameterID
                                    CellParameterID,
    syncCase
                                    SyncCase,
                                    TimeSlot
    timeSlot
                                                        OPTIONAL
    -- This IE shall be present if Sync Case = Case1 -- ,
    sCH-TimeSlot
                                    SCH-TimeSlot
                                                            OPTIONAL
    -- This IE shall be present if Sync Case = Case2 -- ,
    sCTD-Indicator
                            SCTD-Indicator,
    cellIndividualOffset
                                    CellIndividualOffset
                                                            OPTIONAL,
    dPCHConstantValue
                                    DPCHConstantValue OPTIONAL,
    pCCPCH-Power
                                    PCCPCH-Power
                                                             OPTIONAL,
                                    ProtocolExtensionContainer { { Neighbouring-TDD-CellInformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Neighbouring-TDD-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-RestrictionStateIndicator
                                                    CRITICALITY ignore
                                                                                 EXTENSION RestrictionStateIndicator PRESENCE optional },
    . . .
}
NeighbouringTDDCellMeasurementInformation ::= SEQUENCE {
```

3GPP TS225.423 V4.3.0 (2001-12) UC-ID, UARFCN, CellParameterID. TimeSlot OPTIONAL, midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL, ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationItem-ExtIEs } } OPTIONAL,

Release 4

uC-ID

. . .

. . .

UARFCN

timeSlot

cellParameterID

iE-Extensions

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

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

```
Neighbouring-LCR-TDD-CellInformationItem ::= SEQUENCE {
    c-ID
                                    C-ID,
    uARFCNforNt
                                    UARFCN,
    frameOffset
                                    FrameOffset
                                                         OPTIONAL,
    cellParameterID
                                    CellParameterID,
    sCTD-Indicator
                            SCTD-Indicator,
    cellIndividualOffset
                                    CellIndividualOffset
                                                             OPTIONAL,
    dPCHConstantValue
                                    DPCHConstantValue OPTIONAL,
    pCCPCH-Power
                                    PCCPCH-Power
                                                             OPTIONAL.
    restrictionStateIndicator
                                    RestrictionStateIndicator
                                                                     OPTIONAL,
                                    ProtocolExtensionContainer { { Neighbouring-LCR-TDD-CellInformationItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
Neighbouring-LCR-TDD-CellInformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
NrOfDLchannelisationcodes ::= INTEGER (1..8)
NrOfTransportBlocks
                            ::= INTEGER (0..512)
NRT-Load-Information-Value-IncrDecrThres ::= INTEGER(0..3)
NRTLoadinformationValue ::= SEQUENCE {
        uplinkNRTLoadInformationValue
                                             INTEGER(0..3),
        downlinkNRTLoadInformationValue
                                            INTEGER(0..3)
<Parts of the ASN.1 module is omitted>
```

-- R RAC ::= OCTET STRING (SIZE(1)) RANAP-RelocationInformation ::= BIT STRING Range-Correction-Rate ::= INTEGER (-127..127) -- scaling factor 0.032 m/s RateMatchingAttribute ::= INTEGER (1..maxRateMatching) RB-Identity ::= INTEGER (0..31) RB-Info ::= SEQUENCE (SIZE(1..maxNoOfRB)) OF RB-Identity Received-Total-Wideband-Power-Value ::= Received-total-wide-band-power Received-Total-Wideband-Power-Value-IncrDecrThres ::= INTEGER(0..620) -- Unit dB Step 0.1dB -- e.g. value 100 means 10dB RefTFCNumber ::= INTEGER (0..15) RepetitionLength ::= INTEGER (1..63) RepetitionPeriod ::= ENUMERATED { v1, v2, v4, v8, v16, v32, v64 RepetitionNumber0 ::= INTEGER (0..255) RepetitionNumber1 ::= INTEGER (1..256) ReportCharacteristics ::= CHOICE { onDemand NULL, periodic Periodic, eventA EventA, eventB EventB, eventC EventC, eventD EventD, EventE, eventE EventF, eventF . . . , extension-ReportCharacteristics Extension-ReportCharacteristics

}

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```
Extension-ReportCharacteristics ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsIE }}
Extension-ReportCharacteristicsIE RNSAP-PROTOCOL-IES ::= {
    { ID id-OnModification CRITICALITY reject TYPE OnModification
                                                                         PRESENCE mandatory }
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
    . . .
RequestedDataValue ::= SEQUENCE {
    gA-AccessPointPositionwithAltitude
                                                GA-AccessPointPositionwithOptionalAltitude OPTIONAL,
    iPDLParameters
                                                IPDLParameters
                                                                                             OPTIONAL,
    dGPSCorrections
                                                DGPSCorrections
                                                                                             OPTIONAL,
    gPS-NavigationModel-and-TimeRecovery
                                                GPS-NavigationModel-and-TimeRecovery
                                                                                             OPTIONAL,
    qPS-Ionospheric-Model
                                                GPS-Ionospheric-Model
                                                                                             OPTIONAL,
    qPS-UTC-Model
                                                GPS-UTC-Model
                                                                                             OPTIONAL,
                                                GPS-Almanac
    qPS-Almanac
                                                                                             OPTIONAL,
                                                GPS-RealTime-Integrity
    qPS-RealTime-Integrity
                                                                                             OPTIONAL,
    qPS-RX-POS
                                                GPS-RX-POS
                                                                                             OPTIONAL,
    sFNSFN-GA-AccessPointPosition
                                                GA-AccessPointPositionwithOptionalAltitude OPTIONAL,
                                                ProtocolExtensionContainer { { RequestedDataValue-ExtIEs} }
    iE-Extensions
                                                                                                                 OPTIONAL,
RequestedDataValue-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-Cell-Capacity-Class-Value CRITICALITY reject TYPE Cell-Capacity-Class-Value PRESENCE mandatory },
    . . .
RequestedDataValueInformation ::= CHOICE {
    informationAvailable
                                InformationAvailable,
                                InformationNotAvailable
    informationNotAvailable
RestrictionStateIndicator := ENUMERATED {
    cellNotResevedForOperatorUse,
    cellResevedForOperatorUse,
    . . .
}
RL-ID
                        ::= INTEGER (0..31)
```

```
Release 4
RL-Set-ID
                       ::= INTEGER (0..31)
RNC-ID
                       ::= INTEGER (0..4095)
Round-Trip-Time-IncrDecrThres ::= INTEGER(0...32766)
Round-Trip-Time-Value ::= INTEGER(0...32767)
-- According to mapping in [23]
RSCP-Value ::= INTEGER (0..127)
-- According to mapping in [24]
RSCP-Value-IncrDecrThres ::= INTEGER (0..126)
Received-total-wide-band-power
                                            ::= INTEGER (0..621)
-- According to mapping in [23]
RT-Load-Value-IncrDecrThres ::= INTEGER(0..100)
RTLoadValue ::= SEQUENCE {
       uplinkRTLoadValue
                                INTEGER(0..100),
        downlinkRTLoadValue
                                INTEGER(0..100)
}
RxTimingDeviationForTA
                                    ::= INTEGER (0..127)
-- As specified in [5], ch. 6.2.7.6
-- For 1.28Mcps TDD this IE must be set to 0.
Rx-Timing-Deviation-Value ::= INTEGER (0..8191)
--According to mapping in [24][3.84Mcps TDD only]
Rx-Timing-Deviation-Value-LCR ::= INTEGER (0..255)
--According to mapping in [24][1.28Mcps TDD only]
.
.
<Parts of the ASN.1 module is omitted>
```

9.3.6 **Constant Definitions**

_ _ ___ -- Constant definitions ___

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

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS ProcedureCode, ProtocolIE-ID FROM RNSAP-CommonDataTypes;

 Elementary Procedures

 acommon Twon an owt (the new Decouver of Thitic lightion Dread)

id-commonTransportChannelResourcesInitialisation	ProcedureCode	::=	0
id-commonTransportChannelResourcesRelease	ProcedureCode	::=	1
id-compressedModeCommand	ProcedureCode	::=	2
id-downlinkPowerControl	ProcedureCode	::=	3
id-downlinkPowerTimeslotControl	ProcedureCode	::=	4
id-downlinkSignallingTransfer	ProcedureCode	::=	5
id-errorIndication	ProcedureCode	::=	6
id-dedicatedMeasurementFailure	ProcedureCode	::=	7
id-dedicatedMeasurementInitiation	ProcedureCode	::=	8
id-dedicatedMeasurementReporting	ProcedureCode	::=	9
id-dedicatedMeasurementTermination	ProcedureCode	::=	10
id-paging	ProcedureCode	::=	11
id-physicalChannelReconfiguration	ProcedureCode	::=	12
id-privateMessage	ProcedureCode	::=	13
id-radioLinkAddition	ProcedureCode	::=	14
id-radioLinkCongestion	ProcedureCode	::=	34
id-radioLinkDeletion	ProcedureCode	::=	15
id-radioLinkFailure	ProcedureCode	::=	16
id-radioLinkPreemption	ProcedureCode	::=	17
id-radioLinkRestoration	ProcedureCode	::=	18
id-radioLinkSetup	ProcedureCode	::=	19
id-relocationCommit	ProcedureCode	::=	20
id-synchronisedRadioLinkReconfigurationCancellation	ProcedureCode	::=	21
id-synchronisedRadioLinkReconfigurationCommit	ProcedureCode	::=	22
${\tt id-synchronisedRadioLinkReconfigurationPreparation}$	ProcedureCode	::=	23
id-unSynchronisedRadioLinkReconfiguration	ProcedureCode	::=	24
id-uplinkSignallingTransfer	ProcedureCode	::=	25
id-commonMeasurementFailure	ProcedureCode	::=	26
id-commonMeasurementInitiation	ProcedureCode	::=	27
id-commonMeasurementReporting	ProcedureCode	::=	28

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	<pre>id-commonMeasurementTermination id-informationExchangeFailure id-informationExchangeInitiation id-informationReporting id-informationExchangeTermination ***********************************</pre>	ProcedureCode ::= 29 ProcedureCode ::= 30 ProcedureCode ::= 31 ProcedureCode ::= 32 ProcedureCode ::= 33
maxCodeNumComp-1INTEGER::= 255maxRateMatchingINTEGER::= 256maxNoCdeGroupsINTEGER::= 266maxNoODSCHsINTEGER::= 10maxNoODSCHSLCRINTEGER::= 10maxNoOfUSCHSLCRINTEGER::= 266maxNoOfUSCHSLCRINTEGER::= 256maxNoOfTCGroupsINTEGER::= 266maxNoOfTCGTCHsINTEGER::= 266maxNoOfCTCTCHsINTEGER::= 1024maxNoOfCCTrCHsINTEGER::= 16maxNrOfDCTCCHSINTEGER::= 16maxNrOfDCCTCCHSLCRINTEGER::= 16maxNrOfDCCTCCHSLCRINTEGER::= 16maxNrOfDCLocdesINTEGER::= 240maxNrOfDPCHsINTEGER::= 256maxNrOfDPCHsINTEGER::= 15maxNrOfDCLsCRINTEGER::= 16maxNrOfLscrorsINTEGER::= 16maxNrOfLsINTEGER::= 15maxNrOfLsINTEGER::= 16maxNrOfLsINTEGER::= 15maxNrOfLsINTEGER::= 15maxNrOfLsINTEGER::= 15maxNrOfLsINTEGER::= 16maxNrOfLsINTEGER::= 16maxNrOfLsINTEGER::= 16maxNrOfLsINTEGER::= 16maxNrOfLsINTEGER::= 16maxNrOfLsINTEGER::= 15maxNrOfLsINTEGER::= 15maxNrOfDLTsINTEGER::= 16maxNrOfDLSINTEGER::= 16	 *********************************	*******
MaxRotochmuchINTEGER ::= 256maxNoCdeGroupsINTEGER ::= 256maxNoCDSCHsINTEGER ::= 10maxNoOfDSCHsLCRINTEGER ::= 10maxNoOfUSCHSLCRINTEGER ::= 10maxNoOfUSCHSLCRINTEGER ::= 10maxNoOfUSCHSLCRINTEGER ::= 10maxNoOfUSCHSLCRINTEGER ::= 10maxNoOfTCIGroupsINTEGER ::= 1024maxNofTFSINTEGER ::= 16maxNrofTFsINTEGER ::= 16maxNrofCTCCTCHSINTEGER ::= 16maxNrofDCCTCCHSINTEGER ::= 16maxNrofDLCOdesINTEGER ::= 240maxNrofDPCHsINTEGER ::= 256maxNrofDCHSINTEGER ::= 256maxNrofDCHsCINTEGER ::= 15maxNrofDCHsINTEGER ::= 16maxNrofDCHsINTEGER ::= 16maxNrofDCHsINTEGER ::= 15maxNrofRLsINTEGER ::= 15maxNrofRLsINTEGER ::= 15maxNrofRLsINTEGER ::= 15maxNrofLsINTEGER ::= 15maxNrofDLTsINTEGER ::= 16maxNrofDLTsINTEGER ::= 15maxNrofDLTsCRINTEGER ::= 15maxNrofDLTsCRINTEGER ::= 256maxNrofDLTSCRINTEGER ::= 256maxNrofDLTSCRINTEGER ::= 256maxNrofDLSCNC <th>maxCodeNumComp_1</th> <th>TNTTEGED ··- 255</th>	maxCodeNumComp_1	TNTTEGED ··- 255
ImaxNeededCourseINTEGER:: =256maxNoofDSCHsINTEGER:: =10maxNoofDSCHsLCRINTEGER:: =10maxNoofUSCHsLCRINTEGER:: =32maxNoofUSCHsLCRINTEGER:: =10maxNoofUSCHsLCRINTEGER:: =10maxNoofTFGINTEGER:: =10maxNoofTCIGroupsINTEGER:: =10maxNoofTFSINTEGER:: =10maxNrofTCCTrCHsINTEGER:: =124maxNrofCCTrCHsICRINTEGER:: =16maxNrofDL-CodesINTEGER:: =16maxNrofDLCHsINTEGER:: =240maxNrofDCHsINTEGER:: =240maxNrofDCFLSINTEGER:: =15maxNrofRLSINTEGER:: =16maxNrofRLSINTEGER:: =16maxNrofRLSINTEGER:: =16maxNrofRLSINTEGER:: =16maxNrofRLSINTEGER:: =16maxNrofRLSINTEGER:: =16maxNrofRLSINTEGER:= 151maxNrofRLSINTEGER:= 151maxNrofRLSINTEGER:= 161maxNrofRLSINTEGER:= 161maxNrofRLSINTEGER:= 161maxNrofRLSINTEGER:= 151maxNrofRLSINTEGER:= 161maxNrofRLSINTEGER:= 161 <t< td=""><td>maxCodeNumComp-1</td><td>INTEGER ··- 255</td></t<>	maxCodeNumComp-1	INTEGER ··- 255
InterpresentInterpresentmaxNoCdeGroupsINTEGER::= 256maxNoofDSCHsLCRINTEGER::= 10maxNoofUSCHsINTEGER::= 32maxNoofUSCHsLCRINTEGER::= 10maxNoofUSCHsLCRINTEGER::= 10maxNoofTCGroupsINTEGER::= 10maxNoofTCGINTEGER::= 1024maxNrofTCSINTEGER::= 122maxNrofCTCCHSINTEGER::= 16maxNrofCCTrCHsLCRINTEGER::= 16maxNrofDCHsINTEGER::= 240maxNrofDPCHsINTEGER::= 240maxNrofDPCHsLCRINTEGER::= 256maxNrofPchsLSINTEGER::= 16maxNrofPchsLSINTEGER::= 16maxNrofRLsINTEGER::= 16maxNrofRLsINTEGER::= 16maxNrofRLsINTEGER::= 16maxNrofRLs-1INTEGER::= 15maxNrofDLTsCINTEGER::= 15maxNrofDLTsCINTEGER::= 6maxNrofDLTsCINTEGER::= 6maxNrofDLTsLCRINTEGER::= 15maxNrofDLTsLCRINTEGER::= 16maxNrofDLTsLCRINTEGER::= 16maxNrofDLTsLCRINTEGER::= 16maxNrofDLTsLCRINTEGER::= 16maxNrofDLTsLCRINTEGER::= 16maxNrofDDNeighboursPerRNCINTEGER:= 256maxNrofFDDNeighboursPerRNCINTEGER:= 256maxNrofFDDNeighboursPerRNCINTEGER:= 256maxNrofFDDNeighb		INTEGER $ = 250 $
InternationInternationmaxNoOfDSCHELCRINTEGER ::= 10maxNoOfUSCHEINTEGER ::= 32maxNoOfUSCHEINTEGER ::= 10maxNoOfUSCHELCRINTEGER ::= 10maxNoOfTFGINTEGER ::= 10maxNoOfTFTCSINTEGER ::= 1024maxNrOfTFSINTEGER ::= 32maxNrOfCCTrCHSINTEGER ::= 16maxNrOfDCHSINTEGER ::= 16maxNrOfDCHSINTEGER ::= 16maxNrOfDCHSINTEGER ::= 16maxNrOfDCHSINTEGER ::= 240maxNrOfDPCHSINTEGER ::= 256maxNrOfDPCHSCRINTEGER ::= 240maxNrOfDCHLSINTEGER ::= 256maxNrOfDCHSINTEGER ::= 16maxNrOfDCHSINTEGER ::= 16maxNrOfDCHSINTEGER ::= 16maxNrOfRLSINTEGER ::= 16maxNrOfRLSINTEGER ::= 16maxNrOfRLS-1INTEGER ::= 15maxNrOfRLS-1INTEGER ::= 16maxNrOfLS-1INTEGER ::= 16maxNrOfLS-1INTEGER ::= 16maxNrOfDLTSINTEGER ::= 16maxNrOfDLTSINTEGER ::= 16maxNrOfDLTSINTEGER ::= 15maxNrOfDLTSLCRINTEGER ::= 15maxNrOfDLTSLCRINTEGER ::= 4maxNrOfDLTSLCRINTEGER ::= 16maxNrOfDLTSLCRINTEGER ::= 16maxNrOfDLTSLCRINTEGER ::= 256maxNrOfDLSLCRINTEGER ::= 256maxNrOfDLSLCRINTEGER ::= 256maxNrOfDLSLCRINTEGER ::= 256maxNrOfDLTSLCRINTEGER ::= 256maxNrOfDLTSLCRINTEGER ::= 256ma	maxNocodeGroups	INTEGER ··= 250
INTRUERINTRUER::= 10maxNoOFRBINTEGER::= 10maxNoOfUSCHsINTEGER::= 10maxNoTCGTCGroupsINTEGER::= 256maxNrOTFCSINTEGER::= 32maxNrOTFSINTEGER::= 1024maxNrOfCCTrCHsINTEGER::= 16maxNrOfDLACodesINTEGER::= 16maxNrOfDL-CodesINTEGER::= 128maxNrOfDCHSINTEGER::= 240maxNrOfDCHSINTEGER::= 240maxNrOfDCHSINTEGER::= 240maxNrOfDCHSINTEGER::= 240maxNrOfDCHSINTEGER::= 16maxNrOfDCHSINTEGER::= 16maxNrOfRLSINTEGER::= 16maxNrOfRLSINTEGER::= 16maxNrOfRLSINTEGER::= 16maxNrOfRLSINTEGER::= 16maxNrOfRLSINTEGER::= 16maxNrOfRLS-1INTEGER::= 15maxNrOfLSINTEGER::= 15maxNrOfLTSINTEGER::= 15maxNrOfLTSINTEGER::= 15maxNrOfLTSLCRINTEGER::= 15maxNrOfLTSLCRINTEGER::= 16maxNrOfDLTSCINTEGER::= 16maxNrOfNeighbouringRNCSINTEGER::= 256maxNrOfFDDNeighboursPerRNCINTEGER:= 256maxNrOfFDDNeighboursPerRNCINTEGER:= 256maxNrOfFACHSINTEGER:= 256maxNrOfFACHSINTEGER:= 256maxNrOfFACHSINTEGER:= 256 <td>MAXNOOLDSCHS</td> <td>INTEGER ··= 10</td>	MAXNOOLDSCHS	INTEGER ··= 10
MAXNOOTRBINTEGER::= 32maxNoOfUSCHsINTEGER::= 10maxNoOfUSCHSLCRINTEGER::= 256maxNoTFCIGroupsINTEGER::= 226maxNrOTFCSINTEGER::= 16maxNrOfCCTrCHsLCRINTEGER::= 16maxNrOfDL-CodesINTEGER::= 240maxNrOfPCHsINTEGER::= 240maxNrOfDCHsINTEGER::= 16maxNrOfDCHsINTEGER::= 16maxNrOfDCHsINTEGER::= 240maxNrOfDPCHsINTEGER::= 240maxNrOfPCHsINTEGER::= 16maxNrOfPCHsINTEGER::= 16maxNrOfPChsINTEGER::= 16maxNrOfRLSINTEGER::= 16maxNrOfRLSINTEGER::= 16maxNrOfRLSINTEGER::= 16maxNrOfLSINTEGER::= 16maxNrOfLs-1INTEGER::= 16maxNrOfLs-2INTEGER::= 16maxNrOfLTsINTEGER::= 16maxNrOfLTsINTEGER::= 15maxNrOfLTsINTEGER::= 15maxNrOfLTsCRINTEGER::= 15maxNrOfDLTsLCRINTEGER::= 15maxNrOfDLTSLCRINTEGER::= 16maxNrOfFDNeighbouringRNCSINTEGER::= 10maxNrOfFDNeighboursPerRNCINTEGER:= 256maxNrOfFDNeighboursPerRNCINTEGER:= 256maxNrOfFDNeighboursPerRNCINTEGER:= 256maxNrOfFDNeighboursPerRNCINTEGER:= 256maxNrOfFCHAHS	MAXNOULDSCHELCR	INTEGER := 10
maxNoOUSCHSINTEGERINTEGERIOmaxNoOTSCIGroupsINTEGERINTEGERIOmaxNrOTFCIGroupsINTEGERINTEGERIO24maxNrOTFCsINTEGERINTEGERIO24maxNrOfCTrCHsINTEGERIIICmaxNrOfCCTrCHsCINTEGERIIICmaxNrOfDL-GodesINTEGERIIICmaxNrOfDL-CodesINTEGERII240maxNrOfDL-CodesINTEGERII240maxNrOfDCHSINTEGERII256maxNrOfDChSDU-LengthINTEGERII256maxNrOfPointsINTEGERII16maxNrOfRLSINTEGERII16maxNrOfRLSINTEGERII16maxNrOfRLSINTEGERII16maxNrOfRLSINTEGERII16maxNrOfRLSINTEGERII16maxNrOfRLSINTEGERII16maxNrOfLTSINTEGERII15maxNrOfDLTSINTEGERII15maxNrOfDLTSLCRINTEGERII15maxNrOfDLTSLCRINTEGERII15maxNrOfDLTSLCRINTEGERII16maxNrOfFDNeighbouringRNCSINTEGER10maxNrOfFDNeighboursPerRNCINTEGER256maxNrOfFDNeighboursPerRNCINTEGER256maxNrOfFDNeighboursPerRNCINTEGER256maxNrOfFACHsINTEGER256maxNrOfFACHsINTEGER10maxNrOfFACHSIN	MaxNoUIRB	INTEGER ::= 32
maxNofUsCHsLCRINTEGER::= 10maxNofTCIGroupsINTEGER::= 256maxNrofTFsINTEGER::= 1024maxNrofCTrCHsINTEGER::= 16maxNrofCCTrCHsLCRINTEGER::= 16maxNrofDCChsINTEGER::= 16maxNrofDPCHsLCRINTEGER::= 240maxNrofDPCHsLCRINTEGER::= 256maxNrofDPCHsINTEGER::= 256maxNrofDPChsLCRINTEGER::= 16maxNrofPointsINTEGER::= 16maxNrofRLSINTEGER::= 16maxNrofRLSetsINTEGER::= 16maxNrofRLs-1INTEGER::= 15maxNrofRLs-2INTEGER::= 15maxNrofDLTSINTEGER::= 15maxNrofDLTSINTEGER::= 15maxNrofDLTSINTEGER::= 15maxNrofDLTSINTEGER::= 15maxNrofDLTSINTEGER::= 15maxNrofDLTSINTEGER::= 16maxNrofDLTSCRINTEGER::= 16maxNrofDLTSCRINTEGER::= 16maxNrofFLONLTSCNINTEGER::= 16maxNrofFDDNeighbouringRNCSINTEGER::= 256maxNrofFDDNeighboursPerRNCINTEGER::= 256maxNrofFDDNeighboursPerRNCINTEGER:= 256maxNrofFDDNeighboursPerRNCINTEGER:= 256maxNrofFDDNeighboursPerRNCINTEGER:= 256maxNrofFDDNeighboursPerRNCINTEGER:= 256maxNrofFDDNeighboursPerRNCINTEGER:= 256maxNrofFDDNeigh	maxNoOfUSCHs	INTEGER ::= 10
maxNoTPClGroupsINTEGER::= 256maxNrOfTFCsINTEGER::= 1024maxNrOfCCTrCHsINTEGER::= 32maxNrOfCCTrCHsLCRINTEGER::= 16maxNrOfDL-CodesINTEGER::= 128maxNrOfDPCHsINTEGER::= 240maxNrOfDPCHsLCRINTEGER::= 240maxNrOfDCTsINTEGER::= 240maxNrOfDrChsLCRINTEGER::= 16maxNrOfDrChsLCRINTEGER::= 16maxNrOfPointsINTEGER::= 16maxNrOfRLsINTEGER::= 16maxNrOfRLsINTEGER::= 16maxNrOfRLsINTEGER::= 16maxNrOfRLs-1INTEGER::= 16maxNrOfULTSINTEGER::= 16maxNrOfDLTSINTEGER::= 16maxNrOfDLTSINTEGER::= 16maxNrOfDLTSINTEGER::= 6maxNrOfDLTSINTEGER::= 6maxNrOfDLTSINTEGER::= 15maxNrOfDLTSINTEGER::= 15maxNrOfPoiningRNCSINTEGER::= 16maxNrOfFeighbouringRNCSINTEGER::= 16maxNrOfFDDNeighboursPerRNCINTEGER::= 256maxNrOfFACHSINTEGER::= 256maxNrOfFACHSINTEGER::= 256maxNrOfFACHSINTEGER::= 256maxNrOfFACHSINTEGER::= 256maxNrOfFACHSINTEGER:= 256maxNrOfFACHSINTEGER:= 256maxNrOfFACHSINTEGER:= 256maxNrOfFACHSINTEGER<	maxNoOfUSCHSLCR	INTEGER ::= 10
maxNrOTIFCSINTEGER1024maxNrOfTFsINTEGER::= 1024maxNrOfCCTrCHSINTEGER::= 16maxNrOfCCTrCHSLCRINTEGER::= 16maxNrOfDCHsINTEGER::= 128maxNrOfDPCHsINTEGER::= 240maxNrOfDPCHsLCRINTEGER::= 240maxNrOfDrChsINTEGER::= 256maxNrOfRLSINTEGER::= 16maxNrOfRLSINTEGER::= 16maxNrOfRLSINTEGER::= 16maxNrOfRLSINTEGER::= 16maxNrOfRLS-1INTEGER::= 15maxNrOfULTSINTEGER::= 15maxNrOfDLTSINTEGER::= 15maxNrOfDLTSINTEGER::= 15maxNrOfULTSINTEGER::= 6maxNrOfDLTSINTEGER::= 15maxNrOfDLTSLCRINTEGER::= 15maxTTI-CountINTEGER::= 16maxNrOfRLShouringRNCSINTEGER::= 10maxNrOfFDDNeighboursPerRNCINTEGER::= 256maxNrOfFDDNeighboursPerRNCINTEGER::= 256maxNrOfFDDNeighboursPerRNCINTEGER::= 256maxNrOfFACHSINTEGER::= 256maxNrOfFACHSINTEGER::= 256maxNrOfFACHSINTEGER:= 256maxNrOfFACHSINTEGER:= 256maxNrOfFACHSINTEGER:= 256maxNrOfFACHSINTEGER:= 256maxNrOfFACHSINTEGER:= 256maxNrOfFACHSINTEGER:= 256maxNrOfFACHSINT	maxNoTFCIGroups	INTEGER ::= 256
maxNrOTIFsINTEGER:: = 32maxNrOfCCTrCHsINTEGER:: = 16maxNrOfCCTrCHsLCRINTEGER:: = 16maxNrOfDL-CodesINTEGER:: = 128maxNrOfDPCHsINTEGER:: = 240maxNrOfDPCHsLCRINTEGER:: = 240maxNrOfDACcshSDU-LengthINTEGER:: = 256maxNrOfRLsINTEGER:: = 16maxNrOfRLsINTEGER:: = 16maxNrOfRLsINTEGER:: = 16maxNrOfRLsINTEGER:: = 16maxNrOfLsINTEGER:: = 16maxNrOfLsINTEGER:: = 16maxNrOfLs-1INTEGER:: = 14maxNrOfLs2INTEGER:: = 15maxNrOfLTSINTEGER:: = 15maxNrOfDLTSINTEGER:: = 15maxNrOfDLTSLCRINTEGER:: = 15maxNrOfFINTEGER:: = 15maxNrOfFINTEGER:: = 16maxNrOfFINTEGER:: = 16maxNrOfFINTEGER:: = 16maxNrOfFINTEGER:: = 256maxNrOfFINTEGER:: = 256maxNrOfFACHsINTEGER:: = 256maxNrOfFACHsINTEGER:: = 256maxNrOfFACHsINTEGER:: = 16maxNrOfFACHsINTEGER:: = 256maxNrOfFACHsINTEGER:: = 16maxNrOfFACHsINTEGER:: = 256maxNrOfFACHsINTEGER:: = 16	maxNrOITFCs	INTEGER ::= 1024
maxNrOTCUTCHSINTEGERINTEGERISmaxNrOfCCTrCHsLCRINTEGERINTEGERISmaxNrOfDL-CodesINTEGERISISmaxNrOfDPCHSINTEGERIS240maxNrOfDPCHSLCRINTEGERIS240maxNrOfDACcshSDU-LengthINTEGERIS256maxNrOfRLSINTEGERIS16maxNrOfRLSINTEGERIS16maxNrOfRLSINTEGERIS16maxNrOfRLSINTEGERIS16maxNrOfRLS-1INTEGERIS16maxNrOfDLTSINTEGERIS1maxNrOfDLTSINTEGERIS1maxNrOfDLTSINTEGERIS1maxNrOfDLTSINTEGERIS1maxNrOfDLTSINTEGERIS6maxNrOfDLTSLCRINTEGERIS15maxNrOfDLTSLCRINTEGERIS16maxNrOfDLTSLCRINTEGERIS16maxNrOfPDDNeighboursPerRNCINTEGERIS16maxNrOfFCINTEGERIS10maxNrOfFDDNeighboursPerRNCINTEGERIS256maxNrOfFDDNeighboursPerRNCINTEGERIS8maxNrOfFCTDDNeighboursPerRNCINTEGERIS8maxNrOfFACHSINTEGERIS8maxNrOfFCTDDNeighboursPerRNCINTEGER16maxNrOfFACHSINTEGERIS16	maxNrUITFS	INTEGER ::= 32
maxNrOfCCTTCHELCRINTEGER::= 16maxNrOfDCHSINTEGER::= 128maxNrOfDL-CodesINTEGER::= 240maxNrOfDPCHSINTEGER::= 240maxNrOfDPCHSLCRINTEGER::= 256maxNrOfMACcshSDU-LengthINTEGER::= 16maxNrOfRLSINTEGER::= 16maxNrOfRLSINTEGER::= 16maxNrOfRLSINTEGER::= 16maxNrOfRLSINTEGER::= 16maxNrOfRLSINTEGER::= 16maxNrOfRLS-1INTEGER::= 16maxNrOfLTsINTEGER::= 15maxNrOfULTSINTEGER::= 14maxNrOfULTSINTEGER::= 15maxNrOfDLTSINTEGER::= 15maxNrOfDLTSINTEGER::= 15maxNrOfDLTSINTEGER::= 16maxNrOfDLTSINTEGER::= 16maxNrOfDLTSINTEGER::= 16maxNrOfDLTSINTEGER::= 16maxNrOfPDDNeighboursPerRNCINTEGER::= 256maxNrOfFDDNeighboursPerRNCINTEGER::= 256maxNrOfFACHsINTEGER::= 256maxNrOfFACHsINTEGER::= 256maxNrOfFACHsINTEGER::= 8maxNrOfLCRTDDNeighboursPerRNCINTEGER::= 256maxNrOfLCRTDDNeighboursPerRNCINTEGER::= 256maxNrOfLCRTDDNeighboursPerRNCINTEGER:= 256maxNrOfLCRTDDNeighboursPerRNCINTEGER:= 16maxNrOfLCRTDDNeighboursPerRNCINTEGER:= 16maxNrOfLCRTDDNeigh	maxNrOfCCTrCHs	INTEGER ::= 16
maxNrOIDCHSINTEGER::=128maxNrOfDL-CodesINTEGER::=240maxNrOfDPCHSLCRINTEGER::=240maxNrOfDChSLCRINTEGER::=256maxNrOfDACcshSDU-LengthINTEGER::=16maxNrOfPointsINTEGER::=16maxNrOfRLSINTEGER::=16maxNrOfRLSetsINTEGER::=16maxNrOfRLs-1INTEGER::=14maxNrOfULTsINTEGER::=15maxNrOfULTsINTEGER::=15maxNrOfDLTSINTEGER::=16maxNrOfDLTSINTEGER::=16maxNrOfDLTSINTEGER::=15maxNrOfDLTSLCRINTEGER::=15maxNrOfDLTSLCRINTEGER::=16maxNrOfPDNeighbouringRNCSINTEGER::=16maxNrOfFDDNeighboursPerRNCINTEGER::=10maxNrOfFDDNeighboursPerRNCINTEGER::=256maxNrOfFACHsINTEGER::=256maxNrOfFACHsINTEGER::=256maxNrOfFACHsINTEGER::=256maxNrOfFACHsINTEGER::=256maxNrOfFACHsINTEGER::=256maxNrOfFACHsINTEGER::=256maxNrOfFACHsINTEGER::=256maxNrOfFACHsINTEGER::=10maxNrOfFACHsINTEGER::=10maxNrOfFACHsINTEGER	maxNrOICCTrCHsLCR	INTEGER ::= 16
maxNrOfDL-CodesINTEGER::= 8maxNrOfDPCHsINTEGER::= 240maxNrOfDPCHsLCRINTEGER::= 256maxNrOfMACcshSDU-LengthINTEGER::= 16maxNrOfRLsINTEGER::= 16maxNrOfRLsINTEGER::= 16maxNrOfRLsINTEGER::= 16maxNrOfRLs-1INTEGER::= 15maxNrOfRLs-2INTEGER::= 15maxNrOfULTSINTEGER::= 15maxNrOfULTSINTEGER::= 15maxNrOfDLTSLCRINTEGER::= 6maxNrOfDLTSLCRINTEGER::= 6maxNrOfDLTSLCRINTEGER::= 15maxNrOfDLTSLCRINTEGER::= 15maxNrOfDLTSLCRINTEGER::= 15maxNrOfDLTSLCRINTEGER::= 6maxNrOfDLTSLCRINTEGER::= 16maxNrOfDLTSLCRINTEGER::= 15maxNrOfDLTSLCRINTEGER::= 256maxNrOfNeighbouringRNCSINTEGER::= 256maxNrOfFDDNeighboursPerRNCINTEGER::= 256maxNrOfFDDNeighboursPerRNCINTEGER::= 256maxNrOfFACHsINTEGER::= 256maxNrOfFACHsINTEGER::= 256maxNrOfLCRTDDNeighboursPerRNCINTEGER::= 256maxNrOfFACHsINTEGER::= 256maxNrOfFACHsINTEGER::= 256maxNrOfFACHsINTEGER::= 10maxINSEGINTEGER::= 16	maxNrUIDCHs	INTEGER ::= 128
maxNFOIDPCHSINTEGERINTEGER240maxNrOfDPCHSLCRINTEGER240maxNrOfErrorsINTEGER256maxNrOfPointsINTEGER15maxNrOfRLSINTEGER16maxNrOfRLsINTEGER16maxNrOfRLsINTEGER16maxNrOfRLs-1INTEGER15maxNrOfLTsINTEGER14maxNrOfLTsINTEGER14maxNrOfLTsINTEGER15maxNrOfDLTSINTEGER15maxNrOfDLTSLCRINTEGER15maxNrOfDLTSLCRINTEGER15maxNrOfDLTSLCRINTEGER15maxTTI-CountINTEGER15maxNrOfNeighboursPerRNCINTEGER10maxNrOfFDDNeighboursPerRNCINTEGER26maxNrOfTDDNeighboursPerRNCINTEGER256maxNrOfFACHsINTEGER256maxNrOfFACHsINTEGER256maxNrOfFACHsINTEGER256maxNrOfFACHsINTEGER256maxNrOfFACHsINTEGER256maxNrOfFACHsINTEGER256maxNrOfFACHsINTEGER256maxNrOfFACHsINTEGER256maxNrOfFACHsINTEGER256maxNrOfFACHsINTEGER256maxNrOfFACHsINTEGER256maxNrOfFACHsINTEGER256maxNrOfFACHsINTEGER256maxNrOfFACHsINTEGER10maxNrOfFACHsINTEGER10maxNrOfFACHsI	maxNrUIDL-Codes	INTEGER ::= 8
maxNrOfDPCHSLCRINTEGERINTEGERI= 240maxNrOfErrorsINTEGERINTEGERI= 256maxNrOfMACcshSDU-LengthINTEGERIITEGERI= 16maxNrOfPointsINTEGERIITEGERIImaxNrOfRLsINTEGERIITEGERIImaxNrOfRLsetsINTEGERIIIIIITEGERmaxNrOfRLs-1INTEGERIIIIIITEGERmaxNrOfULTSINTEGERIIIIIIIImaxNrOfULTSINTEGERIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	maxNrOIDPCHs	INTEGER ::= 240
maxNrOfErrorsINTEGER::= 256maxNrOfMACcshSDU-LengthINTEGER::= 16maxNrOfPointsINTEGER::= 15maxNrOfRLsINTEGER::= 16maxNrOfRLsetsINTEGER::= 16maxNrOfRLs-1INTEGER::= 15maxNrOfULTSINTEGER::= 16maxNrOfULTSINTEGER::= 14maxNrOfULTSINTEGER::= 15maxNrOfDLTSLCRINTEGER::= 6maxNrOfDLTSLCRINTEGER::= 6maxNrOfDLTSLCRINTEGER::= 15maxNrOfDLTSLCRINTEGER::= 16maxNrOfDLTSLCRINTEGER::= 16maxNrOfDLTSLCRINTEGER::= 256maxNrOfNeighbouringRNCSINTEGER::= 256maxNrOfNeighboursPerRNCINTEGER::= 256maxNrOfTDDNeighboursPerRNCINTEGER::= 256maxNrOfFACHsINTEGER::= 256maxNrOfFACHsINTEGER::= 256maxNrOfFACHsINTEGER::= 256maxNrOfFACHsINTEGER::= 256maxNrOfFACHsINTEGER::= 256maxNrOfFACHsINTEGER::= 256maxNrOfFACHsINTEGER::= 256maxNrOfFACHsINTEGER::= 256maxNrOfFACHsINTEGER::= 10maxIBSEGINTEGER::= 16	MaxNrOIDPCHSLCR	INTEGER ::= 240
maxNrOFMACCSNSDU-LengthINTEGER::= 16maxNrOfPointsINTEGER::= 15maxNrOfRLSINTEGER::= 16maxNrOfRLSetsINTEGER::= 16maxNrOfRLs-1INTEGER::= 15 maxNrOfRLs - 1maxNrOfLs-2INTEGER::= 14 maxNrOfRLs - 2maxNrOfULTSINTEGER::= 15maxNrOfDLTSINTEGER::= 6maxNrOfDLTSINTEGER::= 6maxNrOfDLTSLCRINTEGER::= 6maxNrOfDLTSLCRINTEGER::= 6maxNrOfDLTSLCRINTEGER::= 15maxNrOfDLTSLCRINTEGER::= 16maxNrOfDLTSLCRINTEGER::= 16maxNrOfDLTSLCRINTEGER::= 16maxNrOfDLTSLCRINTEGER::= 16maxNrOfDLTSLCRINTEGER::= 16maxNrOfDLSLCRINTEGER::= 6maxNrOfDLSLCRINTEGER::= 16maxNrOfDLSLCRINTEGER::= 16maxNrOfDLSLCRINTEGER::= 16maxNrOfDLSLCRINTEGER::= 256maxNrOfNeighbouringRNCSINTEGER::= 256maxNrOfFDDNeighboursPerRNCINTEGER::= 256maxNrOfTDDNeighboursPerRNCINTEGER::= 256maxNrOfLCRTDDNeighboursPerRNCINTEGER::= 256maxNrOfLCRTDDNeighboursPerRNCINTEGER::= 256maxNrOfLCRTDDNeighboursPerRNCINTEGER:= 256maxNrOfLCRTDDNeighboursPerRNCINTEGER:= 256maxNrOfLCRTDDNeighboursPerRNCINTEGER:= 16 <td>maxNrUIErrors</td> <td>INTEGER ::= 256</td>	maxNrUIErrors	INTEGER ::= 256
maxNrOFPOINTSINTEGERISmaxNrOFRLSINTEGERISmaxNrOfRLSINTEGERISmaxNrOfRLS-1INTEGERISmaxNrOfRLS-2INTEGERISmaxNrOfULTSINTEGERISmaxNrOfULTSINTEGERISmaxNrOfDLTSINTEGERISmaxNrOfDLTSINTEGERISmaxNrOfDLTSINTEGERISmaxNrOfDLTSINTEGERISmaxNrOfDLTSINTEGERISmaxNrOfDLTSINTEGERISmaxNrOfDLTSINTEGERISmaxNrOfDLTSINTEGERISmaxNrOfDLTSINTEGERISmaxNrOfDLTSINTEGERISmaxNrOfDLTSINTEGERISmaxNrOfDLTSINTEGERISmaxNrOfNeighboursPerRNCINTEGERISmaxNrOfFDDNeighboursPerRNCINTEGERISmaxNrOfFDDNeighboursPerRNCINTEGERISmaxNrOfLCRTDDNeighboursPerRNCINTEGERISmaxNrOfLCRTDDNeighboursPerRNCINTEGERISmaxNrOfLCRTDDNeighboursPerRNCINTEGERISmaxNrOfLCRTDDNeighboursPerRNCINTEGERISmaxNrOfLCRTDDNeighboursPerRNCINTEGERISmaxNrOfLCRTDDNeighboursPerRNCINTEGERINTEGERmaxNrOfLCRTDDNeighboursPerRNCINTEGERINTEGERmaxNrOfLCRTDDNeighboursPerRNCINTEGERINTEGERmaxNrOfLCRTDDNeighboursPerRNCINTEGERINTEGERmaxNrOfLCRTDDNeighboursPerRNCINTEGERINTEGER </td <td>maxNrUIMACcsnSDU-Length</td> <td>INTEGER ::= 16</td>	maxNrUIMACcsnSDU-Length	INTEGER ::= 16
maxNrOFRLSINTEGER::= 16maxNrOfRLSetsINTEGER::= maxNrOfRLsmaxNrOfRLs-1INTEGER::= 15maxNrOfRLs-2INTEGER::= 14maxNrOfULTSINTEGER::= 15maxNrOfDLTSINTEGER::= 6maxNrOfDLTSINTEGER::= 6maxNrOfDLTSINTEGER::= 6maxNrOfDLTSINTEGER::= 15maxNrOfDLTSINTEGER::= 16maxNrOfDLTSINTEGER::= 16maxNrOfDLTSINTEGER::= 16maxNrOfDLTSINTEGER::= 16maxNrOfDLTSINTEGER::= 16maxNrOfDLTSINTEGER::= 16maxNrOfDLTSINTEGER::= 16maxNrOfDReighbouringRNCSINTEGER::= 256maxNrOfFDDNeighboursPerRNCINTEGER::= 256maxNrOfFACHSINTEGER::= 256maxNrOfFACHSINTEGER::= 8maxNrOfFACHSINTEGER::= 10maxNrOfFACHSINTEGER::= 10maxNrOfLCTDDNeighboursPerRNCINTEGER::= 256maxNrOfLCTDDNeighboursPerRNCINTEGER::= 256maxNrOfFACHSINTEGER::= 10maxNrOfFACHSINTEGER::= 10maxIBSEGINTEGER::= 16	maxNrUIPOINTS	INTEGER ::= 15
maxNrOTRLSetsINTEGERINTEGERI maxNrOTRLsmaxNrOfRLs-1INTEGERIS	maxNrUIRLS	INTEGER ::= 16
maxNrOFRLS-1INTEGER ::= 15 maxNrOFRLS - 1maxNrOfRLs-2INTEGER ::= 14 maxNrOFRLS - 2maxNrOfULTSINTEGER ::= 151maxNrOfULTSLCRINTEGER ::= 151maxNrOfDLTSLCRINTEGER ::= 61maxNrOfNLRA-1INTEGER ::= 61maxNrOfNeighbouringRNCsINTEGER ::= 16777215maxNrOfFDDNeighboursPerRNCINTEGER ::= 256maxNrOfFACHSINTEGER ::= 256maxNrOfFACHSINTEGER ::= 8maxNrOfFACHSINTEGER ::= 10maxNrOfLCRTDDNeighboursPerRNCINTEGER ::= 16maxNrOfLCRTDDNeighboursPerRNCINTEGER ::= 10maxNrOfLCRTDDNeighboursPerRNCINTEGER ::= 10maxNrOfLCRTDDNeighboursPerRNCINTEGER ::= 10maxNrOfLCRTDDNeighboursPerRNCINTEGER ::= 10maxIRACHCountPlus1INTEGER ::= 16	maxNrUIRLSets	INTEGER ::= maxNrUIRLS
maxNrOFRLS-2INTEGER ::= 14 maxNrOFRLS - 2maxNrOfULTsINTEGER ::= 15maxNrOfULTsLCRINTEGER ::= 6maxNrOfDLTsINTEGER ::= 6maxRNCinURA-1INTEGER ::= 6maxTTI-CountINTEGER ::= 15maxNrOfFDDNeighbouringRNCsINTEGER ::= 16777215maxNrOffDDNeighboursPerRNCINTEGER ::= 256maxNrOffDDNeighboursPerRNCINTEGER ::= 256maxNrOffDDNeighboursPerRNCINTEGER ::= 8maxNrOffLCRTDDNeighboursPerRNCINTEGER ::= 8maxNrOfLCRTDDNeighboursPerRNCINTEGER ::= 10maxNrOfLCRTDDNeighboursPerRNCINTEGER ::= 10maxNrOfLCRTDDNeighboursPerRNCINTEGER ::= 256maxNrOfLCRTDDNeighboursPerRNCINTEGER ::= 8maxNrOfLCRTDDNeighboursPerRNCINTEGER ::= 10maxIRACHCountPlus1INTEGER ::= 16	maxNrUIRLS-1	INTEGER ::= 15 maxNrOIRLS - 1
maxNrOfULTSINTEGERISmaxNrOfULTSLCRINTEGERISmaxNrOfDLTSINTEGERISmaxNrOfDLTSLCRINTEGERISmaxRNCinURA-1INTEGERISmaxTTI-CountINTEGERISmaxNrOfNeighbouringRNCSINTEGERISmaxNrOfFDDNeighboursPerRNCINTEGERISmaxNrOfTDDNeighboursPerRNCINTEGERISmaxNrOfFDDNeighboursPerRNCINTEGERISmaxNrOfFDDNeighboursPerRNCINTEGERISmaxNrOffDDNeighboursPerRNCINTEGERISmaxNrOffLCRTDDNeighboursPerRNCINTEGERISmaxNrOfLCRTDDNeighboursPerRNCINTEGERISmaxNrOfLCRTDDNeighboursPerRNCINTEGERISmaxIRACHCountPlus1INTEGERISmaxIBSEGINTEGERINTEGERis10	maxNrUIRLS-2	INTEGER ::= 14 maxNrUIRLS - 2
IntegerIntegermaxNrOfDLTSLCRINTEGERmaxNrOfDLTSLCRINTEGERmaxRNCinURA-1INTEGERmaxTTI-CountINTEGERmaxCTFCINTEGERmaxNrOfNeighbouringRNCsINTEGERmaxNrOfFDDNeighboursPerRNCINTEGERmaxNrOffDDNeighboursPerRNCINTEGERmaxNrOfTDDNeighboursPerRNCINTEGERmaxNrOfFDDNeighboursPerRNCINTEGERmaxNrOfFDDNeighboursPerRNCINTEGERmaxNrOffDDNeighboursPerRNCINTEGERmaxNrOfLCRTDDNeighboursPerRNCINTEGERmaxNrOfLCRTDDNeighboursPerRNCINTEGERmaxSACHCountPlus1INTEGERmaxIBSEGINTEGERinteger10		INTEGER ··= 15
IntegerIntegermaxNrOfDLTsLCRINTEGERmaxRNCinURA-1INTEGERmaxTTI-CountINTEGERmaxCTFCINTEGERmaxNrOfNeighbouringRNCsINTEGERmaxNrOfFDDNeighboursPerRNCINTEGERmaxNrOffSdMneighboursPerRNCINTEGERmaxNrOfTDDNeighboursPerRNCINTEGERmaxNrOfFACHsINTEGERmaxNrOfLCRTDDNeighboursPerRNCINTEGERinteger:= 8maxNrOfLCRTDDNeighboursPerRNCINTEGERinteger:= 10maxFACHCountPlus1INTEGERinteger:= 16		INIEGER ··= 0
maxNrOfDirishekINTEGERI ofmaxRNCinURA-1INTEGERINTEGERImaxTTI-CountINTEGERIIImaxCTFCINTEGERIIImaxNrOfNeighbouringRNCsINTEGERIIImaxNrOfFDDNeighboursPerRNCINTEGERIIIImaxNrOfTDDNeighboursPerRNCINTEGERIIIImaxNrOfTDDNeighboursPerRNCINTEGERIIIIIImaxNrOfLCRTDDNeighboursPerRNCINTEGERIIIIIImaxINrOfLCRTDDNeighboursPerRNCINTEGERIIIIIIIIIImaxIBSEGINTEGERIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	maxNIOIDLIS maxNrOfDI Tal CP	INIEGER ··- IS
maxTrI-CountINTEGER:ISmaxCTFCINTEGER::=4maxNrOfNeighbouringRNCsINTEGER::=10maxNrOfFDDNeighboursPerRNCINTEGER::=256maxNrOfTDDNeighboursPerRNCINTEGER::=256maxNrOfFACHsINTEGER::=256maxNrOfLCRTDDNeighboursPerRNCINTEGER::=8maxNrOfLCRTDDNeighboursPerRNCINTEGER::=8maxIRSEGINTEGER::=10maxIBSEGINTEGER::=16	maxNIOIDLISLCK	INIEGER ··- 0 INTECED ··- 15
maxTr1FcOuncINTEGERmaxCTFCINTEGERmaxNrOfNeighbouringRNCsINTEGERmaxNrOfFDDNeighboursPerRNCINTEGERmaxNrOfTDDNeighboursPerRNCINTEGERmaxNrOfFACHsINTEGERmaxNrOfLCRTDDNeighboursPerRNCINTEGERmaxNrOfLCRTDDNeighboursPerRNCINTEGERmaxNrOfLCRTDDNeighboursPerRNCINTEGERmaxISACHCountPlus1INTEGERmaxIBSEGINTEGERINTEGER10	maxrnciiiora-i maxTTI-Count	INIEGER ··- IS
maxNrOfNeighbouringRNCsINTEGER1077213maxNrOfFDDNeighboursPerRNCINTEGER10maxNrOfGSMNeighboursPerRNCINTEGER256maxNrOfFDDNeighboursPerRNCINTEGER256maxNrOfFACHsINTEGER11maxFACHCountPlus1INTEGER10maxIBSEGINTEGER10	max111-COUIL maxCTEC	INIEGER ··- 4 INTECEP ··- 16777215
maxNrOfFDDNeighboursPerRNC INTEGER ::= 256 maxNrOfFDDNeighboursPerRNC INTEGER ::= 256 maxNrOfFACHs INTEGER ::= 256 maxNrOfLCRTDDNeighboursPerRNC INTEGER ::= 8 maxFACHCountPlus1 INTEGER ::= 10 maxIBSEG INTEGER ::= 16	maxerre	INTEGER ··- 10
maxNrOfrDDAcighboursPerRNC INTEGER ::= 256 maxNrOfrDDNeighboursPerRNC INTEGER ::= 256 maxNrOfFACHs INTEGER ::= 8 maxNrOfLCRTDDNeighboursPerRNC INTEGER ::= 256 maxFACHCountPlus1 INTEGER ::= 10 maxIBSEG INTEGER ::= 16	maxNrOfFDDNeighboursperRNC	INTEGER ::= 256
maxNrOfTDDNeighboursPerRNC INTEGER ::= 256 maxNrOfFACHs INTEGER ::= 8 maxNrOfLCRTDDNeighboursPerRNC INTEGER ::= 256 maxFACHCountPlus1 INTEGER ::= 10 maxIBSEG INTEGER ::= 16	maxNrOfGSMNeighboursperRNC	INTEGER ::= 256
maxNrOfFACHs INTEGER ::= 256 maxNrOfFACHs INTEGER ::= 256 maxFACHCountPlus1 INTEGER ::= 10 maxIBSEG INTEGER ::= 16	maxNrOfTDDNeighbourgDerRNC	INTEGER ::= 256
maxNrOfLCRTDDNeighboursPerRNC INTEGER ::= 256 maxFACHCountPlus1 INTEGER ::= 10 maxIBSEG INTEGER ::= 16	maxNrOfFACHs	INTEGER ::= 8
maxFACHCountPlus1 INTEGER ::= 10 INTEGER ::= 16	maxNrOfLCRTDDNeighbourgDerRNC	INTEGER ::= 256
maxIBSEG INTEGER := 16	maxFACHCountPlus1	INTEGER ::= 10
	maxIBSEG	INTEGER ::= 16

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maxNrOfSCCPCHs	INTEGER ::= 8
maxTFCI1Combs	INTEGER ::= 512
maxTFCI2Combs	INTEGER ::= 1024
maxTFCI2Combs-1	INTEGER ::= 1023
maxTGPS	INTEGER ::= 6
maxNrOfTS	INTEGER ::= 15
maxNrOfLevels	INTEGER ::= 256
maxNrOfTsLCR	INTEGER ::= 6
maxNoSat	INTEGER ::= 16
maxNoGPSTypes	INTEGER ::= 8
maxNrOfMeasNCell	INTEGER ::= 96
maxNrOfMeasNCell-1	INTEGER ::= 95 maxNrOfMeasNCell - 1

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-- IEs --

id-Allowed-Rate-InformationProtocolIE-ID ::= 42id-BindingIDProtocolIE-ID ::= 5id-C-IDProtocolIE-ID ::= 5id-C-RNTIProtocolIE-ID ::= 6id-Cell-Capacity-Class-ValueProtocolIE-ID ::= 7id-Cell-Capacity-Class-Value-ThresholdInformationProtocolIE-ID ::= 30id-CFNProtocolIE-ID ::= 30id-CN-CS-DomainIdentifierProtocolIE-ID ::= 8id-CN-PS-DomainIdentifierProtocolIE-ID ::= 9id-CauseProtocolIE-ID ::= 10id-CriticalityDiagnosticsProtocolIE-ID ::= 10id-D-RNTIProtocolIE-ID ::= 21
id-BindingIDProtocolIE-ID::= 5id-C-IDProtocolIE-ID::= 6id-C-RNTIProtocolIE-ID::= 7id-Cell-Capacity-Class-ValueProtocolIE-ID::= 30id-Cell-Capacity-Class-Value-ThresholdInformationProtocolIE-ID::= 30id-CFNProtocolIE-ID::= 9id-CN-CS-DomainIdentifierProtocolIE-ID::= 9id-CauseProtocolIE-ID::= 10id-CriticalityDiagnosticsProtocolIE-ID::= 20id-D-RNTIProtocolIE-ID::= 21
id-C-IDProtocolIE-ID::= 6id-C-RNTIProtocolIE-ID::= 7id-Cell-Capacity-Class-ValueProtocolIE-ID::= 30id-Cell-Capacity-Class-Value-ThresholdInformationProtocolIE-ID::= 30id-CFNProtocolIE-ID::= 30id-CN-CS-DomainIdentifierProtocolIE-ID::= 9id-CAuseProtocolIE-ID::= 10id-CriticalityDiagnosticsProtocolIE-ID::= 11id-D-RNTIProtocolIE-ID::= 21
id-C-RNTIProtocolIE-ID::= 7id-Cell-Capacity-Class-ValueProtocolIE-ID::= 30id-Cell-Capacity-Class-Value-ThresholdInformationProtocolIE-ID::= 30id-CFNProtocolIE-ID::= 8id-CN-CS-DomainIdentifierProtocolIE-ID::= 9id-CN-PS-DomainIdentifierProtocolIE-ID::= 10id-CauseProtocolIE-ID::= 11id-CriticalityDiagnosticsProtocolIE-ID::= 20id-D-RNTIProtocolIE-ID::= 21
id-Cell-Capacity-Class-ValueProtocolIE-ID ::= 30id-Cell-Capacity-Class-Value-ThresholdInformationProtocolIE-ID ::= 30id-CFNProtocolIE-ID ::= 8id-CN-CS-DomainIdentifierProtocolIE-ID ::= 8id-CN-PS-DomainIdentifierProtocolIE-ID ::= 9id-CauseProtocolIE-ID ::= 10id-CriticalityDiagnosticsProtocolIE-ID ::= 20id-D-RNTIProtocolIE-ID ::= 21
id-Cell-Capacity-Class-Value-ThresholdInformationProtocolIE-ID ::= 30-id-CFNProtocolIE-ID ::= 8id-CN-CS-DomainIdentifierProtocolIE-ID ::= 9id-CN-PS-DomainIdentifierProtocolIE-ID ::= 10id-CauseProtocolIE-ID ::= 11id-CriticalityDiagnosticsProtocolIE-ID ::= 20id-D-RNTIProtocolIE-ID ::= 21
id-CFNProtocolIE-ID ::= 8id-CN-CS-DomainIdentifierProtocolIE-ID ::= 9id-CN-PS-DomainIdentifierProtocolIE-ID ::= 10id-CauseProtocolIE-ID ::= 11id-CriticalityDiagnosticsProtocolIE-ID ::= 20id-D-RNTIProtocolIE-ID ::= 21
id-CN-CS-DomainIdentifierProtocolIE-ID ::= 9id-CN-PS-DomainIdentifierProtocolIE-ID ::= 10id-CauseProtocolIE-ID ::= 11id-CriticalityDiagnosticsProtocolIE-ID ::= 20id-D-RNTIProtocolIE-ID ::= 21
id-CN-PS-DomainIdentifierProtocolIE-ID ::= 10id-CauseProtocolIE-ID ::= 11id-CriticalityDiagnosticsProtocolIE-ID ::= 20id-D-RNTIProtocolIE-ID ::= 21
id-CauseProtocolIE-ID ::= 11id-CriticalityDiagnosticsProtocolIE-ID ::= 20id-D-RNTIProtocolIE-ID ::= 21
id-CriticalityDiagnosticsProtocolIE-ID ::= 20id-D-RNTIProtocolIE-ID ::= 21
id-D-RNTI ProtocolIE-ID ::= 21
id-D-RNTI-ReleaseIndication ProtocolIE-ID ::= 22
id-DCHs-to-Add-FDD ProtocolIE-ID ::= 26
id-DCHs-to-Add-TDD ProtocolIE-ID ::= 27
id-DCH-DeleteList-RL-ReconfPrepFDD ProtocolIE-ID ::= 30
id-DCH-DeleteList-RL-ReconfPrepTDD ProtocolIE-ID ::= 31
id-DCH-DeleteList-RL-ReconfRqstFDD ProtocolIE-ID ::= 32
id-DCH-DeleteList-RL-ReconfRqstTDD ProtocolIE-ID ::= 33
id-DCH-FDD-Information ProtocolIE-ID ::= 34
id-DCH-TDD-Information ProtocolIE-ID ::= 35
id-FDD-DCHs-to-Modify ProtocolIE-ID ::= 39
id-TDD-DCHs-to-Modify ProtocolIE-ID ::= 40
id-DCH-InformationResponse ProtocolIE-ID ::= 43
id-DCH-Rate-InformationItem-RL-CongestInd ProtocolIE-ID ::= 38
id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ProtocolIE-ID ::= 44
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD ProtocolIE-ID ::= 45
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD ProtocolIE-ID ::= 46
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD ProtocolIE-ID ::= 47
id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD ProtocolIE-ID ::= 48
id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD ProtocolIE-ID ::= 49

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id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD	ProtocolIE-ID ::= 50
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolTE-TD ::= 51
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRestTDD	ProtocolIE-ID ::= 52
id_DL_CCTrCH_InformationList_RL_SetupRestTDD	ProtocolIE ID := 53
id EDD_DI_CodeInformation	ProtocoliE ID ::= 54
	ProtocollE-ID ··- 54
id DD DFCH-INIGINGLION-RE-RECONFLETEDD	ProtocollE-ID ··- 59
id-DL-DPCH-Information-RL-SetupRdstrDD	Protocolle-ID ··= 60
	Protocolle-ID ··= 61
id-DL-DPCH-Informationitem-PhychileconicdstrDD	ProtocollE-ID ::= 62
id-DL-DPCH-InformationItem-RL-AdditionRspTDD	ProtocollE-ID ::= 63
id-DL-DPCH-InformationItem-RL-SetupRspTDD	ProtocollE-ID ::= 64
1d-DLReferencePower	ProtocollE-ID ::= 67
id-DLReferencePowerList-DL-PC-Rqst	ProtocolIE-ID ::= 68
id-DL-ReferencePowerInformation-DL-PC-Rqst	ProtocolIE-ID ::= 69
id-DPC-Mode	ProtocolIE-ID ::= 12
id-DRXCycleLengthCoefficient	ProtocolIE-ID ::= 70
id-DedicatedMeasurementObjectType-DM-Rprt	ProtocolIE-ID ::= 71
id-DedicatedMeasurementObjectType-DM-Rqst	ProtocolIE-ID ::= 72
id-DedicatedMeasurementObjectType-DM-Rsp	ProtocolIE-ID ::= 73
id-DedicatedMeasurementType	ProtocolIE-ID ::= 74
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD	ProtocolIE-ID ::= 82
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD	ProtocolIE-ID ::= 83
id-Guaranteed-Rate-Information	ProtocolIE-ID ::= 41
id-IMSI	ProtocolIE-ID ::= 84
id-L3-Information	ProtocolIE-ID ::= 85
id-AdjustmentPeriod	ProtocolIE-ID ::= 90
id-MaxAdjustmentStep	ProtocolIE-ID ::= 91
id-MeasurementFilterCoefficient	ProtocolIE-ID ::= 92
id-MessageStructure	ProtocolIE-ID ::= 57
id-Measurement ID	ProtocolTE-TD ::= 93
id-Neighbouring-GSM-CellInformation	ProtocolIE-ID ::= 13
id Actionating Content in the second se	ProtocolIE-ID ::= 95
id_NPT_Load_Information_Value	ProtocolIE ID ::= 305
id_NT_Load_Information_Value_IngrDegrThreg	ProtocollE-ID ::= 306
id Deginglyca-DagingBggt	ProtocoliE-ID ::= 102
id Figurear agring Age	Protocolle-ID ··= 102
id Parment NICO UP Identification	Protocolle-ID ··= 103
id-Permanent-NAS-UE-Identity	Protocolle-ID ··= 1/
id-powerAdjustmentiype	Protocolle-ID ··= 107
id-RANAP-Relocationinformation	ProtocollE-ID ::= 109
id-RL-Information-PhychRecontRgstFDD	ProtocollE-ID ::= 110
id-RL-Information-PhyChReconfRqstTDD	ProtocollE-ID ::= III
id-RL-Information-RL-AdditionRqstFDD	ProtocolIE-ID ::= 112
id-RL-Information-RL-AdditionRqstTDD	ProtocolIE-ID ::= 113
id-RL-Information-RL-DeletionRqst	ProtocolIE-ID ::= 114
id-RL-Information-RL-FailureInd	ProtocolIE-ID ::= 115
id-RL-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 116
id-RL-Information-RL-RestoreInd	ProtocolIE-ID ::= 117
id-RL-Information-RL-SetupRastEDD	
TA VE THEOLUMACION VE DECREVABLEDD	ProtocolIE-ID ::= 118
id-RL-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 118 ProtocolIE-ID ::= 119
id-RL-Information-RL-SetupRqstTDD id-RL-InformationItem-RL-CongestInd	ProtocolIE-ID ::= 118 ProtocolIE-ID ::= 119 ProtocolIE-ID ::= 55

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id-RL-InformationItem-DM-Rqst	ProtocolIE-ID ::= 121
id-RL-InformationItem-DM-Rsp	ProtocolIE-ID ::= 122
id-RL-InformationItem-RL-PreemptRequiredInd	ProtocolIE-ID ::= 2
id-RL-InformationItem-RL-SetupRqstFDD	ProtocolIE-ID ::= 123
id-RL-InformationList-RL-CongestInd	ProtocolIE-ID ::= 56
id-RL-InformationList-RL-AdditionRqstFDD	ProtocolIE-ID ::= 124
id-RL-InformationList-RL-DeletionRqst	ProtocolIE-ID ::= 125
id-RL-InformationList-RL-PreemptRequiredInd	ProtocolIE-ID ::= 1
id-RL-InformationList-RL-ReconfPrepFDD	ProtocolIE-ID ::= 126
id-RL-InformationResponse-RL-AdditionRspTDD	ProtocolIE-ID ::= 127
id-RL-InformationResponse-RL-ReconfReadyTDD	ProtocolIE-ID ::= 128
id-RL-InformationResponse-RL-SetupRspTDD	ProtocolIE-ID ::= 129
id-RL-InformationResponseItem-RL-AdditionRspFDD	ProtocolIE-ID ::= 130
id-RL-InformationResponseItem-RL-ReconfReadyFDD	ProtocolIE-ID ::= 131
id-RL-InformationResponseItem-RL-ReconfRspFDD	ProtocolIE-ID ::= 132
id-RL-InformationResponseItem-RL-SetupRspFDD	ProtocolIE-ID ::= 133
id-RL-InformationResponseList-RL-AdditionRspFDD	ProtocolIE-ID ::= 134
id-RL-InformationResponseList-RL-ReconfReadyFDD	ProtocolIE-ID ::= 135
id-RL-InformationResponseList-RL-ReconfRspFDD	ProtocolIE-ID ::= 136
id-RL-InformationResponse-RL-ReconfRspTDD	ProtocolIE-ID ::= 28
id-RL-InformationResponseList-RL-SetupRspFDD	ProtocolIE-ID ::= 137
id-RL-ReconfigurationFailure-RL-ReconfFail	ProtocolIE-ID ::= 141
id-RL-Set-InformationItem-DM-Rprt	ProtocolIE-ID ::= 143
id-RL-Set-InformationItem-DM-Rgst	ProtocolIE-ID ::= 144
id-RL-Set-InformationItem-DM-Rsp	ProtocolIE-ID ::= 145
id-RL-Set-Information-RL-FailureInd	ProtocollE-ID ::= 146
id-RL-Set-Information-RL-RestoreInd	ProtocolIE-ID ::= 147
id-ReportCharacteristics	ProtocolIE-ID ::= 152
id-Reporting-Object-RL-FailureInd	ProtocolIE-ID ::= 153
id-Reporting-Object-RL-RestoreInd	ProtocollE-TD := 154
id-RT-Load-Value	ProtocolIE-ID ::= 307
id-RT-Load-Value-IncrDecrThres	ProtocolIE-ID ::= 308
id-S-RNTI	ProtocolIE-ID ::= 155
id-SAI	ProtocolIE-ID ::= 156
id-SRNC-ID	ProtocolIE-ID ::= 157
id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD	ProtocolIE-ID ::= 159
id-SuccessfulRL-InformationResponse-RL-SetupFailureFDD	ProtocolIE-ID ::= 160
id-TransportBearerID	ProtocolIE-ID ::= 163
id-TransportBearerRequestIndicator	ProtocolIE-ID ::= 164
id-TransportLaverAddress	ProtocolIE-ID ::= 165
id-TypeOfError	ProtocollE-TD := 140
id-UC-TD	ProtocolIE-ID ::= 166
id-UU-CCTrCH-AddInformation-RL-ReconfPrepTDD	ProtocollE-ID ::= 167
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 169
id-UL-CCTrCH-InformationItem-RL-SetupRastTDD	ProtocolIE-ID ::= 171
id-UL-CCTrCH-InformationList-RL-SetupRastTDD	ProtocolIE-ID ::= 172
id-UL-CCTrCH-InformationListIE-PhyChReconfRastTDD	ProtocollE-ID ::= 173
id-UL-CCTrCH-InformationListIE-RL-AdditionRspTDD	$\frac{1}{2} = 173$
id-UL-CCTrCH-InformationListIE-RL-ReconfReadyTDD	$\frac{110000011E}{ProtocolIE} = 175$
id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD	$\frac{110000011E}{ProtocollE-ID} := 176$
id-UL-DPCH-Information-RL-ReconfPrepFDD	$\frac{1}{2} = \frac{1}{2} = \frac{1}{2}$

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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-SIRTarget	
id-URA-Information	
id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD	
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureFDD	
id-UnsuccessfulRL-InformationResponse-RL-SetupFailureTDD	
id-Active-Pattern-Sequence-Information	
id-AdjustmentRatio	
id-CauseLevel-RL-AdditionFailureFDD	
id-CauseLevel-RL-AdditionFailureTDD	
id-CauseLevel-RL-ReconfFailure	
id-CauseLevel-RL-SetupFailureFDD	
id-CauseLevel-RL-SetupFailureTDD	
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD	
id-DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD	
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	
id-DL-DPCH-InformationAddListIE-RL-ReconfReadyTDD	
id-DL-DPCH-InformationDeleteListIE-RL-ReconfReadyTDD	
id-DL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD	
id-DSCHs-to-Add-TDD	
id-DSCHs-to-Add-FDD	
id-DSCH-DeleteList-RL-ReconfPrepTDD	
id-DSCH-Delete-RL-ReconfPrepFDD	
id-DSCH-FDD-Information	
id-DSCH-InformationListIE-RL-AdditionRspTDD	
id-DSCH-InformationListIEs-RL-SetupRspTDD	
id-DSCH-TDD-Information	
id-DSCH-FDD-InformationResponse	
id-DSCH-Information-RL-SetupRqstFDD	
id-DSCH-ModifyList-RL-ReconfPrepTDD	
id-DSCH-Modify-RL-ReconfPrepFDD	
id-DSCHsToBeAddedOrModified-FDD	
id-DSCHToBeAddedOrModifiedList-RL-ReconfReadyTDD	
id-EnhancedDSCHPC	
id-EnhancedDSCHPCIndicator	
id-GA-Cell	
id-GA-CellAdditionalShapes	
id-SSDT-CellIDforEDSCHPC	
id-Transmission-Gap-Pattern-Sequence-Information	
id-UL-CCTrCH-DeleteInformation-RL-ReconfPrepTDD	
id-UL-CCTrCH-ModifyInformation-RL-ReconfPrepTDD	
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	

ProtocolIE-ID ::= 178 ProtocolIE-ID ::= 179 ProtocolIE-ID ::= 180 ProtocolIE-ID ::= 181 ProtocolIE-ID ::= 182 ProtocolIE-ID ::= 183 ProtocolIE-ID ::= 184 ProtocolIE-ID ::= 185 ProtocolIE-ID ::= 188 ProtocolIE-ID ::= 189 ProtocolIE-ID ::= 190 ProtocolIE-ID ::= 193 ProtocolIE-ID ::= 194 ProtocolIE-ID ::= 197 ProtocolIE-ID ::= 198 ProtocolIE-ID ::= 199 ProtocolIE-ID ::= 200 ProtocolIE-ID ::= 201 ProtocolIE-ID ::= 205 ProtocolIE-ID ::= 206 ProtocolIE-ID ::= 207 ProtocolIE-ID ::= 208 ProtocolIE-ID ::= 209 ProtocolIE-ID ::= 210 ProtocolIE-ID ::= 212 ProtocolIE-ID ::= 213 ProtocolIE-ID ::= 214 ProtocolIE-ID ::= 215 ProtocolIE-ID ::= 216 ProtocolIE-ID ::= 217 ProtocolIE-ID ::= 218 ProtocolIE-ID ::= 219 ProtocolIE-ID ::= 220 ProtocolIE-ID ::= 221 ProtocolIE-ID ::= 222 ProtocolIE-ID ::= 223 ProtocolIE-ID ::= 226 ProtocolIE-ID ::= 227 ProtocolIE-ID ::= 228 ProtocolIE-ID ::= 229 ProtocolIE-ID ::= 230 ProtocolIE-ID ::= 29 ProtocolIE-ID ::= 34 ProtocolIE-ID ::= 232 ProtocolIE-ID ::= 3 ProtocolIE-ID ::= 35 ProtocolIE-ID ::= 255 ProtocolIE-ID ::= 256 ProtocolIE-ID ::= 257 ProtocolIE-ID ::= 258 ProtocolIE-ID ::= 259

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id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD id-UL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD id-UL-DPCH-InformationDeleteListIE-RL-ReconfReadvTDD id-UL-DPCH-InformationModifyListIE-RL-ReconfReadyTDD id-UnsuccessfulRL-InformationResponse-RL-AdditionFailureTDD id-USCHs-to-Add id-USCH-DeleteList-RL-ReconfPrepTDD id-USCH-InformationListIE-RL-AdditionRspTDD id-USCH-InformationListIEs-RL-SetupRspTDD id-USCH-Information id-USCH-ModifyList-RL-ReconfPrepTDD id-USCHToBeAddedOrModifiedList-RL-ReconfReadvTDD id-DL-Physical-Channel-Information-RL-SetupRqstTDD id-UL-Physical-Channel-Information-RL-SetupRgstTDD id-ClosedLoopModel-SupportIndicator id-ClosedLoopMode2-SupportIndicator id-STTD-SupportIndicator id-CFNReportingIndicator id-CNOriginatedPage-PagingRqst id-InnerLoopDLPCStatus id-PropagationDelay id-RxTimingDeviationForTA id-timeSlot-ISCP id-CCTrCH-InformationItem-RL-FailureInd id-CCTrCH-InformationItem-RL-RestoreInd id-CommonMeasurementAccuracy id-CommonMeasurementObjectType-CM-Rprt id-CommonMeasurementObjectType-CM-Rgst id-CommonMeasurementObjectTvpe-CM-Rsp id-CommonMeasurementType id-CongestionCause id-SFN id-SFNReportingIndicator id-InformationExchangeID id-InformationExchangeObjectType-InfEx-Rprt id-InformationExchangeObjectType-InfEx-Rgst id-InformationExchangeObjectType-InfEx-Rsp id-InformationReportCharacteristics id-InformationType id-neighbouring-LCR-TDD-CellInformation id-DL-Timeslot-ISCP-LCR-Information-RL-SetupRqstTDD id-RL-LCR-InformationResponse-RL-SetupRspTDD id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD id-USCH-LCR-InformationListIEs-RL-SetupRspTDD id-DL-Timeslot-ISCP-LCR-Information-RL-AdditionRgstTDD

ProtocolIE-ID ::= 260 ProtocolIE-ID ::= 261 ProtocolIE-ID ::= 262 ProtocolIE-ID ::= 263 ProtocolIE-ID ::= 264 ProtocolIE-ID ::= 265 ProtocolIE-ID ::= 266 ProtocolIE-ID ::= 267 ProtocolIE-ID ::= 268 ProtocolIE-ID ::= 269 ProtocolIE-ID ::= 270 ProtocolIE-ID ::= 271 ProtocolIE-ID ::= 272 ProtocolIE-ID ::= 273 ProtocolIE-ID ::= 274 ProtocolIE-ID ::= 275 ProtocolIE-ID ::= 276 ProtocolIE-ID ::= 277 ProtocolIE-ID ::= 279 ProtocolIE-ID ::= 14 ProtocolTE-TD := 23ProtocolIE-ID ::= 24 ProtocolIE-ID ::= 25 ProtocolIE-ID ::= 36 ProtocolIE-ID ::= 37 ProtocolIE-ID ::= 15 ProtocolIE-ID ::= 16 ProtocolIE-ID ::= 280 ProtocolIE-ID ::= 281 ProtocolIE-ID ::= 282 ProtocolIE-ID ::= 283 ProtocolIE-ID ::= 284 ProtocolIE-ID ::= 18 ProtocolIE-ID ::= 285 ProtocolIE-ID ::= 286 ProtocolIE-ID ::= 287 ProtocolIE-ID ::= 288 ProtocolIE-ID ::= 289 ProtocolIE-ID ::= 290 ProtocolIE-ID ::= 291 ProtocolIE-ID ::= 292 ProtocolTE-TD := 58ProtocolIE-ID ::= 65 ProtocolIE-ID ::= 66 ProtocolIE-ID ::= 75 ProtocolIE-ID ::= 76 ProtocolIE-ID ::= 77 ProtocolIE-ID ::= 78 ProtocolIE-ID ::= 79 ProtocolIE-ID ::= 80 ProtocolIE-ID ::= 81

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id-RL-LCR-InformationResponse-RL-AdditionRspTDD id-UL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfReadvTDD id-UL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfReadyTDD id-DL-Timeslot-LCR-InformationModifyList-RL-ReconfReadyTDD id-UL-Timeslot-LCR-InformationList-PhyChReconfRqstTDD id-DL-Timeslot-LCR-InformationList-PhyChReconfRgstTDD id-timeSlot-ISCP-LCR-List-DL-PC-Rgst-TDD id-TSTD-Support-Indicator-RL-SetupRqstTDD id-RestrictionStateIndicator id-Load-Value id-Load-Value-IncrDecrThres id-OnModification id-Received-Total-Wideband-Power-Value id-Received-Total-Wideband-Power-Value-IncrDecrThres id-SFNSFNMeasurementThresholdInformation id-Transmitted-Carrier-Power-Value id-Transmitted-Carrier-Power-Value-IncrDecrThres id-TUTRANGPSMeasurementThresholdInformation id-UL-Timeslot-ISCP-Value id-UL-Timeslot-ISCP-Value-IncrDecrThres id-Rx-Timing-Deviation-Value-LCR id-DPC-Mode-Change-SupportIndicator

ProtocolIE-ID ::= 86 ProtocolIE-ID ::= 87 ProtocolIE-ID ::= 88 ProtocolIE-ID ::= 89 ProtocolIE-ID ::= 94 ProtocolIE-ID ::= 96 ProtocolIE-ID ::= 97 ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 101 ProtocolIE-ID ::= 104 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 106 ProtocolIE-ID ::= 138 ProtocolIE-ID ::= 139 ProtocolIE-ID ::= 142 ProtocolIE-ID ::= 233 ProtocolIE-ID ::= 234 ProtocolIE-ID ::= 235 ProtocolIE-ID ::= 236 ProtocolIE-ID ::= 237 ProtocolIE-ID ::= 238 ProtocolIE-ID ::= 239 ProtocolIE-ID ::= 240 ProtocolIE-ID ::= 241 ProtocolIE-ID ::= 242 ProtocolIE-ID ::= 243 ProtocolIE-ID ::= 293 ProtocolIE-ID ::= 19

END

3GPP TSG-RAN3 Meeting #27 Orlando, USA, 18th – 22th February 2002

R3-020754

CHANGE REQUEST										CR-Form-v4	
ж	25	.423	CR <mark>58</mark>	7	ж rev	1	ж	Current ver	rsion:	4.3.0	ж
For HELP on using this form, see bottom of this page or look at the pop-up text over the # symbols.											
Proposed change affects: # (U)SIM ME/UE Radio Access Network X Core Network											
Title: ដ	Intr	oductio	on of the c	ell relatic	on param	eters					
Source: ೫	R-V	VG3									
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Reason for change	e: #	R1:									
		- Proto	ocol Ids we	ere alloca	ated.						
		- Defir	nition of the	e HCS pr	rio IE mo	dified.					
		- ASN	.1 correction	ons							
		Chang	ges highlig	hted.							
		R0:									
		The kr locatio detern thereb	nowledge of on of servir nine the ca by avoiding	of cell rel ng and no andidates capacity	lation infe eighbour s of inter y loss.	ormatio ing cell -freque	n suc s in S ncy h	h as relative RNC would andover wit	e cove I enab hout C	erage and a le the SRN(M measure	ntenna C to ements
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		For fu	rther reaso	oning, ple	ease see	the Td	oc R3	3-020600.			
Summary of chang	уе: Ж	This C Cell In Cell In	R introduction	ces the fo IE, <i>Neig</i> i IE:	ollowing hbouring	cell rela 1 TDD C	ation i Cell In	nformation i formation IE	in the and	Neighbourii Neighbourir	ng FDD ng GSM
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		- Ar	ntenna Co-	location	Indicato	r					
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		In add RESP RESP	ition, the H ONSE, RA ONSE and	ICS Prio DIO LIN I RADIO	IE has b IK SETU LINK AI	P FAIL	troduc URE, N FA	ced in the R RADIO LIN ILURE mess	ADIO IK ADI sages	LINK SETU DITION	IP
		Impac	t analysis:								

	Impact assessment towards the previous version of the specification (same release): No previous version.						
	Compatibility Analysis towards previous release:						
	No impact.						
Consequences if not approved:	Support of features such as Hierarchical Cell Structure (HCS) is not possible over lur.						
Clauses affected:	% 8.3.1.1, 8.3.2.1, 9.1.4, 9.1.5.1, 9.1.7, 9.1.8.1, 9.2.1.41B, 9.2.1.41C, 9.2.1.41D, 9.2.1.xx (3 IEs), 9.3.3, 9.3.4 and 9.3.6.						
Other specs	# Other core specifications #						
affected:	Test specifications						
	O&M Specifications						
Other comments:	¥						

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G_Specs/CRs.htm</u>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.3.1.2 Successful Operation



Figure 5: Radio Link Setup procedure: Successful Operation

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

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

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

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

Transport Channels Handling:

DCH(s):

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

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

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

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

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

The *Frame Handling Priority* IE defines the priority level that should be used by the DRNS to prioritise between different frames of the data frames of the DCHs in the downlink on the radio interface in congestion situations once the new RL(s) have been activated.

If the *DCH Specific Info* IE in the *DCH Information* IE includes the *Guaranteed Rate Information* IE, the DRNS shall treat the included IEs according to the following:

3
- If the *Guaranteed Rate Information* IE includes the *Guaranteed UL Rate* IE, the DRNS may decide to request the SRNC to limit the user rate of the uplink of the DCH at any point in time. The DRNS may request the SRNC to reduce the user rate of the uplink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed UL Rate* IE, the DRNS shall not limit the user rate of the uplink of the DCH.
- If the *Guaranteed Rate Information* IE includes the *Guaranteed DL Rate* IE, the DRNS may decide to request the SRNC to limit the user rate of the downlink of the DCH at any point in time. The DRNS may request the SRNC to reduce the user rate of the downlink of the DCH below the guaranteed bit rate, however, whenever possible the DRNS should request the SRNC to reduce the user rate between the maximum bit rate and the guaranteed bit rate. If the *DCH Specific Info* IE in the *DCH Information* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the downlink of the DCH.

DSCH(s):

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

[TDD - USCH(s)]:

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

Physical Channels Handling:

[FDD - Compressed Mode]:

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern* Sequence Information IE and the Active Pattern Sequence Information IE, the DRNS shall use the information to activate the indicated Transmission Gap Pattern Sequences(s) in the new RL. The received *CM Configuration Change CFN* IE refers to latest passed CFN with that value. The DRNS shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the DRNS shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the DRNS shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]

- [FDD - For all other Transmission Gap Pattern Sequences included in the *Active Pattern Sequence Information* IE, the DRNS shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE for the Transmission Gap Pattern Sequence.]

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

[FDD - DL Code Information]:

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[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*".]

General:

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

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

Radio Link Handling:

Diversity Combination Control:

[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 *Diversity Control Field* IE is set to "Must", the DRNS shall not combine the RL with any other existing RL.]

[FDD - In the case of combining one or more RLs the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message with the *Diversity Indication* IE that the RL is combined with another RL RL for all RLs but the first 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 not be included for the first of the combined RLs, for which the *Transport Layer Address* IE and the *Binding ID* IE shall be included.]

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

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

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

[FDD-Transmit Diversity]:

[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.]

[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 Indicator* IE].

DL Power Control:

[FDD - If both the *Initial DL TX Power* IE and *Uplink SIR Target* IE are included 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 constrains 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. The DRNS shall not transmit with a higher power than indicated by the *Maximum DL TX Power IE* or lower than indicated by the *Minimum DL TX Power IE* on any DL DPCH of the RL except during compressed mode, when the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

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

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

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

[FDD – 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 on the Uu interface for the concerning RLS or Power Balancing is activated. No inner loop 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) and the power control procedure (see 8.3.7).]

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

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

[FDD - If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the DRNC shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the life time of the RL. If the *DPC Mode* IE is not present in the RADIO LINK SETUP REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]

Neighbouring Cell Handling:

If there are UMTS neighbouring cell(s) to the cell in which a Radio Link was established then:

- The DRNC shall include the Neighbouring FDD Cell Information IE and/or Neighbouring TDD Cell Information IE in the Neighbouring UMTS Cell Information IE for each neighbouring FDD cell and/or TDD cell respectively. In addition, if the information is available, the DRNC shall include the Frame Offset IE, Primary CPICH Power IE, Cell Individual Offset IE, STTD Support Indicator IE, Closed Loop Model Support Indicator IE, and Closed Loop Mode2 Support Indicator IE, Coverage Indicator IE, Antenna Co-location Indicator IE and HCS Prio IE in the Neighbouring FDD Cell Information IE, and the Frame Offset IE, Cell Individual Offset IE, DPCH Constant Value IE, and the PCCPCH Power IE, Coverage Indicator IE, Antenna Co-location Indicator IE and HCS Prio IE in the Neighbouring TDD Cell Information IE.
- If a UMTS neighbouring cell is not controlled by the same DRNC, the DRNC shall also include the *CN PS Domain Identifier* IE and/or *CN CS Domain Identifier* IE which are the identifiers of the CN nodes connected to the RNC controlling the UMTS neighbouring cell.
- [FDD The DRNC shall include the *DPC Mode Change Support Indicator* IE if the DRNC is aware that the neighbouring cell supports DPC mode change.]

For the UMTS neighbouring cells which are controlled by the DRNC, the DRNC shall report in the RADIO LINK SETUP RESPONSE message the restriction state of those cells, otherwise *Restriction state indicator* IE may be absent. The DRNC shall include the *Restriction state indicator* IE for the neighbouring cells which are controlled by the DRNC in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.

If there are GSM neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include the *Neighbouring GSM Cell Information* IE in the RADIO LINK SETUP RESPONSE message for each of the GSM neighbouring cells. If available the DRNC shall include the *Cell Individual Offset* IE, *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring GSM Cell Information* IE.

General:

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity for EDSCHPC IE, the DRNS shall activate enhanced DSCH power control, if supported, using the SSDT Cell Identity for EDSCHPC IE and SSDT Cell Identity Length IE as well as Enhanced DSCH PC IE in accordance with ref. [10] subclause 5.2.2. If the RADIO LINK SETUP REQUEST message includes both SSDT Cell Identity IE and SSDT Cell Identity for EDSCHPC IE, then the DRNS shall ignore the SSDT Cell Identity for EDSCHPC IE.]

[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 DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK SETUP RESPONSE message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link established in a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK SETUP RESPONSE message.]

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

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

[TDD – If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include the *UARFCN* IE, the *Cell Parameter ID* IE,[3.84Mcps TDD - the *Sync Case* IE, the *SCH Time Slot* IE,] the *SCTD Indicator* IE, and the *PCCPCH Power* IE in the RADIO LINK SETUP RESPONSE message.]

[TDD - The DRNC shall include the Secondary CCPCH Info TDD IE in the RADIO LINK SETUP RESPONSE message if at least one DSCH Information Response IE or USCH Information Response IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the [3.84Mcps TDD - Secondary CCPCH Info TDD IE] [1.28Mcps TDD – Secondary CCPCH Info TDD LCR IE] in the RADIO LINK SETUP RESPONSE message if at least one DSCH Information Response IE or USCH Information Response IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

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

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE and the UTRAN access point position for each of the established RLs in the RADIO LINK SETUP RESPONSE message.

If the DRNS need to limit the user rate in the uplink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed UL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK SETUP RESPONSE message for this Radio Link.

If the DRNS need to limit the user rate in the downlink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed DL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK SETUP RESPONSE message for this Radio Link.

If the *Permanent NAS UE Identity* IE is included in the RADIO LINK SETUP REQUEST message, the DRNS shall store the information for the considered UE Context for the life-time of the UE Context.

If the RADIO LINK SETUP REQUEST message includes the *Permanent NAS UE Identity* IE and a *C-ID* IE corresponding to a cell reserved for operator use, the DRNC shall use this information to determine whether it can set up a Radio Link on this cell or not for the considered UE Context.

If the HCS priority information is available in the DRNS, it shall include the *HCS Prio* IE for each of the established RLs in the RADIO LINK SETUP RESPONSE message.

[FDD - Radio Link Set Handling]:

[FDD - The *First RLS Indicator* IE indicates if the concerning RL shall be considered part of the first RLS established towards this UE. The *First RLS Indicator* IE shall be used by the DRNS to determine the initial TPC pattern in the DL of the concerning RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.

[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 –The UL Uu synchronisation detection algorithm defined in ref. [10] subclause 4.3 shall for each of the established RL Set(s) use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set].

Response Message:

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 established.

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

8.3.2.1 General

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

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

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

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

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

8.3.2.2 Successful Operation



Figure 7: Radio Link Addition procedure: Successful Operation

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

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

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

Transport Channel Handling:

DSCH:

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

Physical Channels Handling:

[FDD-Compressed Mode]:

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Active Pattern Sequence Information* IE, the DRNS shall use the information to activate the indicated (all ongoing) Transmission Gap Pattern Sequence(s) in the new RL. The received *CM Configuration Change CFN* IE refers to the latest passed CFN with that value. The DRNS shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the DRNS shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the DRNS shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]

- [FDD - For all other Transmission Gap Pattern Sequences included in the *Active Pattern Sequence Information* IE, the DRNS shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE for the Transmission Gap Pattern Sequence.]

FDD - If the *Active Pattern Sequence Information* IE is not included, the DRNS shall not activate the ongoing compressed mode pattern in the new RLs, but the ongoing pattern in the existing RL shall be maintained.]

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

[FDD-DL Code Information]:

[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*".]

General:

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

Radio Link Handling:

Diversity Combination Control:

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. If the *Diversity Control Field* IE is set to "Must not", the DRNS shall not combine the RL with any other existing RL.

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

[FDD - In the case of combining one or more RLs being established by this procedure, the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message with the *Diversity Indication* IE that the RL is combined with another RL for all RLs but the first RL. In this case the Reference RL ID shall be included to indicate one of the other RLs being established by this procedure that the new RL is combined with. The Reference *RL ID* IE shall not be included for the first of the combined RLs, for which the *Transport Layer Address* IE and the *Binding ID* IE shall be included.]

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

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

If the DRNS need to limit the user rate in the uplink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed UL Rate* IE of the *Allowed Rate Information* IE in the *DCH Information Response* IE for this DCH in the RADIO LINK ADDITION RESPONSE message for this Radio Link.

If the DRNS need to limit the user rate in the downlink of a DCH already when starting to utilise a new Radio Link, the DRNC shall include the *Allowed DL Rate* IE of the *Allowed Rate Information* IE in the

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DCH Information Response IE for this DCH in the RADIO LINK ADDITION RESPONSE message for this Radio Link.

[FDD-Transmit Diversity]:

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

[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.]

[FDD – When *Transmit Diversity Indicator* IE is present the DRNS shall activate/deactivate the Transmit Diversity to each new Radio Link in accordance with the *Transmit Diversity Indicator* IE using the diversity mode of the existing Radio Link(s).]

DL Power Control:

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

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

[FDD - The Initial DL TX Power shall be applied until UL synchronisation is achieved on the Uu interface for that RLS or Power Balancing is activated. No inner loop 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) and the power control procedure (see 8.3.7)].

[TDD – The Initial DL TX Power shall be applied until UL synchronisation is achieved on the Uu interface 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 - If the *DPC Mode* IE is present in the RADIO LINK ADDITION REQUEST message, the DRNC shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the life time of the RL. If the *DPC Mode* IE is not present in the RADIO LINK ADDITION REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]

The DRNC shall also provide the configured UL 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 DRNS shall not transmit with a higher power than indicated by the *Maximum DL TX Power IE* or lower than indicated by the *Minimum DL TX Power IE* or lower than indicated by the *Minimum DL TX Power IE* on any DL DPCH of the RL [FDD – except during compressed mode, when the $P_{SIR}(k)$, as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k].

DL Code Information:

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.

Neighbouring Cell Handling:

If there are UMTS neighbouring cell(s) to the cell in which a Radio Link was established then:

- The DRNC shall include the *Neighbouring FDD Cell Information* IE and/or *Neighbouring TDD Cell Information* IE in the *Neighbouring UMTS Cell Information* IE for each neighbouring FDD cell and/or TDD cell respectively. In addition, if the information is available, the DRNC shall include the *Frame*

Offset IE, Primary CPICH Power IE, Cell Individual Offset IE, STTD Support Indicator IE, Closed Loop Model Support Indicator IE₁ and Closed Loop Mode2 Support Indicator IE, <u>Coverage Indicator</u> IE, <u>Antenna Co-location Indicator</u> IE and <u>HCS Prio IE</u> in the Neighbouring FDD Cell Information IE, and the Frame Offset IE, Cell Individual Offset IE, DPCH Constant Value IE and the PCCPCH Power IE, <u>Coverage Indicator IE</u>, <u>Antenna Co-location Indicator IE</u> and <u>HCS Prio IE</u> in the Neighbouring TDD Cell Information IE.

- If a UMTS neighbouring cell is not controlled by the same DRNC, the DRNC shall also include the *CN PS Domain Identifier* IE and/or *CN CS Domain Identifier* IE which are the identifiers of the CN nodes connected to the RNC controlling the UMTS neighbouring cell.
- [FDD The DRNC shall include the *DPC Mode Change Support Indicator* IE if the DRNC is aware that the neighbouring cell supports DPC mode change.]

For the UMTS neighbouring cells which are controlled by the DRNC, the DRNC shall report in the RADIO LINK SETUP RESPONSE message the restriction state of those cells, otherwise *Restriction state indicator* IE may be absent. The DRNC shall include the *Restriction state indicator* IE for the neighbouring cells which are controlled by the DRNC in the *Neighbouring FDD Cell Information* IE, the *Neighbouring TDD Cell Information* IE and the *Neighbouring TDD Cell Information LCR* IE.

If there are GSM neighbouring cells to the cell(s) where a radio link is established, the DRNC shall include the *Neighbouring GSM Cell Information* IE in the RADIO LINK ADDITION RESPONSE message for each of the GSM neighbouring cells. If available the DRNC shall include the *Cell Individual Offset* IE, *Coverage Indicator* IE, *Antenna Co-location Indicator* IE and *HCS Prio* IE in the *Neighbouring GSM Cell Information* IE.

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

General:

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

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE, and the UTRAN access point position for each of the added RLs in the RADIO LINK ADDITION RESPONSE message.

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

[FDD - If the UE has been allocated one or several DCH controlled by DRAC and if the DRNS supports the DRAC, the DRNC shall indicate in the RADIO LINK ADDITION RESPONSE message the *Secondary CCPCH Info* IE for the FACH where the DRAC information is sent, for each Radio Link established in a cell where DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK ADDITION RESPONSE message.]

[TDD - The DRNC shall include the [3.84Mcps TDD - Secondary CCPCH Info TDD IE] [1.28Mcps TDD – Secondary CCPCH Info TDD LCR IE] in the RADIO LINK ADDITION RESPONSE message if at least one DSCH Information Response IE or USCH Information Response IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the [3.84Mcps TDD - Secondary CCPCH Info TDD IE] [1.28Mcps TDD – Secondary CCPCH Info TDD LCR IE] in the RADIO LINK ADDITION RESPONSE message if at least one [3.84Mcps TDD - DSCH Information Response IE] [1.28Mcps TDD – DSCH Information Response LCR IE or USCH Information Response LCR IE] or USCH Information Response IE is included in the message and the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

If the *Permanent NAS UE Identity* IE is present in the RADIO LINK ADDITION REQUEST message, the DRNS shall store the information for the considered UE Context for the life-time of the UE Context.

If the RADIO LINK ADDITION REQUEST message includes a *C-ID* IE corresponding to a cell reserved for operator use and the Permanent NAS UE Identity is available in the DRNC for the considered UE Context, the DRNC shall use this information to determine whether it can add the Radio Link on this cell or not.

If the HCS priority information is available in the DRNS, it shall include the *HCS Prio* IE for each of the established RLs in the RADIO LINK ADDITION RESPONSE message.

[FDD-Radio Link Set Handling]:

[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.]

[FDD – After addition of the new RL(s), the UL Uu synchronisation detection algorithm defined in ref. [10] subclause 4.3 shall for each of the previously existing and newly established RL Set(s) use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set].

Response message:

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

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

9.1.4 RADIO LINK SETUP RESPONSE

9.1.4.1 FDD Message

IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
			and	description		Criticality
Mossage Type	N/				VES	roject
Transaction ID	M		9.2.1.40		-	Тејесі
D-RNTI	0		9.2.1.39		VES	ignore
CN PS Domain Identifier	0		92112		YES	ignore
CN CS Domain Identifier	0		92111		YES	ignore
RL Information Response	0	1 <maxno< td=""><td>0.2.1.11</td><td></td><td>EACH</td><td>ignore</td></maxno<>	0.2.1.11		EACH	ignore
·		ofRLs>				.9.1010
>RL ID	М		9.2.1.49		_	
>RL Set ID	Μ		9.2.2.35		_	
>URA Information	0		9.2.1.70B		_	
>SAI	Μ		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point Position	0		9.2.1.70A		-	
>Received Total Wide Band Power	М		9.2.2.35A		_	
>Secondary CCPCH Info	0		9.2.2.37B		_	
>DL Code Information	M		FDD DL		_	
			Code			
			Information			
			9.2.2.14A			
>Diversity Indication	C- NotFirstRL		9.2.1.21		-	
>CHOICE Diversity	М				_	
Indication						
>>Combining					_	
>>>RL ID	М		9.2.1.49	Reference RL ID for the combining	_	
>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>Non Combining or First					—	
>>>DCH Information	М		9.2.1.16A		_	
Response			0.0.0.40			
>SSD1 Support Indicator	IVI M		9.2.2.43		-	
	IVI		9 2 1 69		_	
>Minimum Uplink SIR	М		Uplink SIR		_	
			9.2.1.69			
>Closed Loop Timing	0		9.2.2.3A		_	
Adjustment Mode	M		9.2.1.35		_	
Power						
>Waximum DL TX Power	IVI		9.2.1.21A		_	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>Primary Scrambling Code	0		9.2.1.45		_	
>UL UARFCN	0		UARFCN	Corresponds	-	
			9.2.1.00	[6]		
>DL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nd in ref.	_	
			0.2.1.00	[6]		
>Primary CPICH Power	M		9.2.1.44		-	
>DSCH Information	0		DSCH		YES	ignore
kesponse			FDD			
			Response			

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IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality		
			9.2.2.13B					
>Neighbouring UMTS Cell Information	0		9.2.1.41A		_			
>Neighbouring GSM Cell Information	0		9.2.1.41C		_			
>PC Preamble	М		9.2.2.27a		_			
>SRB Delay	М		9.2.2.39A		_			
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore		
>HCS Prio	<u>0</u>		<u>9.2.1.xx</u>		YES	ignore		
Uplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore		
Criticality Diagnostics	0		9.2.1.13		YES	ignore		

Condition	Explanation
NotFirstRL	The IE shall be present if the RL is not the first RL in the RL
	Information Response IE.

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

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9.1.4.2 TDD Message

IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
			and	description		Criticality
Message Type	М	-	92140		YES	reject
Transaction ID	M	-	92159		-	10,000
D-RNTI	0		92124		YES	ignore
CN PS Domain Identifier	0		9.2.1.24		VES	ignore
CN CS Domain Identifier	0		9.2.1.12		VES	ignoro
PL Information Response	0	0.1	9.2.1.11	Mondatory	VES	ignore
RE mormation Response		01		For	TES	ignore
				3.84Mcps TDD only		
>RL ID	М		9.2.1.49	, í	_	
>URA Information	0		9.2.1.70B		_	
>SAI	M		92152		_	
	0		9215A		_	
VITRAN Access Point	0		9.2.1.0/1		_	
Position	U		3.2.1.70A			
SULTIME Slot ISCP Info	M		Q 2 3 13D		_	
Maximum Unlink SIP	M		Junlink SIP			
	IVI				_	
Minimum Unlink SIP	NA		Junlink SIP			
	IVI				—	
Maximum Allawad III. Ty	N.4		9.2.1.09			
>Maximum Allowed UL TX	IVI		9.2.1.35		_	
	N.4					
>Maximum DL TX Power	IVI		DL Power		—	
			9.2.1.21A			
>Minimum DL TX Power	M		DL Power		—	
	<u>^</u>		9.2.1.21A			
>UARFCN	0		UARFCN	Corresponds	—	
			9.2.1.66	to Nt in ret.		
	0	-	0.0.4.0	[7]		
>Cell Parameter ID	0		9.2.1.8		_	
>Sync Case	0		9.2.1.54		-	
>SCH Time Slot	C-Case2		9.2.1.51		-	
>SCTD Indicator	0		9.2.1.78		-	
>PCCPCH Power	Μ		9.2.1.43		_	
>Timing Advance Applied	Μ		9.2.3.12A		_	
>Alpha Value	Μ		9.2.3.a		—	
>UL PhysCH SF Variation	М		9.2.3.13B		_	
>Synchronisation	М		9.2.3.7E		-	
Secondary CCPCH Info	0		9237B		_	
	U		0.2.0.7 D			
>UL CCTrCH Information		0 <maxno ofCCTrCH</maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9232		_	
>>UL DPCH Information	111	0.1	0.2.0.2	<u></u>	YES	ianore
>>> Ponotition Poriod	NA	01	0227		120	ignore
>>>Repetition Length	M		0236			
	M		9.2.3.0			
	IVI M		9.2.3.0A			
Information	IVI		9.2.3.130		_	
>DL CCTrCH Information		0 <maxno ofCCTrCH s></maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	M		9.2.3.2		_	
>>DL DPCH Information		01			YES	ignore
>>>Repetition Period	Μ		9.2.3.7		_	
>>>Repetition Length	Μ		9.2.3.6		_	
>>>TDD DPCH Offset	Μ	1	9.2.3.8A		_	
>>>DL Timeslot	М		9.2.3.2C			
Information						
>DCH Information Response	0		9.2.1.16A		YES	ignore

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IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
			and	description		Criticality
>DSCH Information		0	relefence		GLOBAL	ianore
Response		<maxnoof DSCHs></maxnoof 				9
>>DSCH ID	М		9.2.1.26A		_	
>>DSCH Flow Control	М		9.2.1.26B		—	
Information	0		0.0.1.0			
>>Transport Laver Address	0		9.2.1.3			
>>Transport Format	M		9.2.3.13		_	
Management						
>USCH Information Response		0 <maxnoof< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></maxnoof<>			GLOBAL	ignore
>>USCH ID	Μ	0301182	9.2.3.14			
>>Binding ID	0		9.2.1.3		_	
>>Transport Layer	0		9.2.1.62		-	
Address						
>>Transport Format Management	M		9.2.3.13		-	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		—	
>Neighbouring GSM Cell	0		9.2.1.41C		-	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ianore
RL Information Response		01	0.202	Mandatory	YES	ignore
LCR				For		-
				1.28Mcps		
	M		02140	TDD only		
>RL ID	M		9.2.1.49 9.2.1.70B			
>SAI	M		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point Position	0		9.2.1.70A		_	
>UL Time Slot ISCP Info LCR	М		9.2.3.13H		_	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Minimum Uplink SIR	М		Uplink SIR		_	
>Maximum Allowed UL Tx	М		9.2.1.35		-	
Power >Maximum DL TX Power	Μ		DL Power		_	
			9.2.1.21A			
>Minimum DL TX Power	Μ		DL Power 9.2.1.21A		_	
>UARFCN	0		UARFCN	Corresponds	-	
			9.2.1.66	to Nt in ref.		
Cell Parameter ID	0		9218	[/]		
>SCTD Indicator	0		9.2.1.0			
>PCCPCH Power	M		9.2.1.43		_	
>Alpha Value	М		9.2.3.a		-	
>UL PhysCH SF Variation	М		9.2.3.13B		_	
>Synchronisation Configuration	М		9.2.3.7E		_	
>Secondary CCPCH Info	0		9.2.3.7F		-	
>UL CCTrCH Information		0., <maxno< td=""><td></td><td>For DCH</td><td>GLOBAI</td><td>janore</td></maxno<>		For DCH	GLOBAI	janore
LCR		ofCCTrCH				.9010
>>CCTrCH ID	М		9.2.3.2		_	
>>UL DPCH Information		01			YES	ignore
LCR	N/		0.2.2.7			
>>>Repetition Period	IVI	1	J.Z.J.1	1	—	

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IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		_	
>>>UL Timeslot	М		9.2.3.13G		_	
Information LCR						
>DL CCTrCH Information LCR		0 <maxno ofCCTrCH sLCR></maxno 		For DCH	GLOBAL	ignore
>>CCTrCH ID	Μ		9.2.3.2		_	
>>DL DPCH Information		01			YES	ignore
LCR						-
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	Μ		9.2.3.6		_	
>>>TDD DPCH Offset	Μ		9.2.3.8A		_	
>>>DL Timeslot Information LCR	Μ		9.2.3.2E			
>>>TSTD Indicator	М		9.2.3.13E		—	
>DCH Information Response	0		9.2.1.16A		YES	ignore
>DSCH Information Response LCR		0 <maxnoof DSCHsLC R></maxnoof 			GLOBAL	ignore
>>DSCH ID	Μ		9.2.1.26A		_	
>>DSCH Flow Control Information	Μ		9.2.1.26B		_	
>>Binding ID	0		9.2.1.3		_	
>>Transport Layer Address	0		9.2.1.62		_	
>>Transport Format Management	М		9.2.3.13		_	
>USCH Information Response LCR		0 <maxnoof USCHsLC R></maxnoof 			GLOBAL	ignore
>>USCH ID	М		9.2.3.14		_	
>>Binding ID	0		9.2.1.3		_	
>>Transport Layer Address	0		9.2.1.62		_	
>>Transport Format Management	М		9.2.3.13		-	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>HCS Prio	0		9.2.1.xx		YES	ignore
Uplink SIR Target	M		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Condition	Explanation
Case2	The IE shall be present if Sync Case IE is equal to "Case2".

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

9.1.5 RADIO LINK SETUP FAILURE

9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
Mossage Type	N/				VES	roject
Transaction ID	M		9.2.1.40		123	Тејесі
D-RNTI	0		92124		YES	ianore
CN PS Domain Identifier	0		92112		YES	ignore
CN CS Domain Identifier	0		92111		YES	ignore
CHOICE Cause Level	M		0.2.111		YES	ignore
>General					_	J
>>Cause	М		9.2.1.5		_	
>RL Specific					_	
>>Unsuccessful RL		1 <maxn< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxn<>			EACH	ignore
Information Response		oofRLs>				-
>>>RL ID	М	_	9.2.1.49		_	
>>>Cause	М		9.2.1.5		_	
>>Successful RL		0 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<>			EACH	ignore
Information Response		ofRLs-1>				
>>>RL ID	M		9.2.1.49		_	
>>>RL Set ID	M		9.2.2.35		-	
>>>UKA Information	0		9.2.1.70B		—	
>>>SAI	M		9.2.1.52		_	
>>>Cell GAI	0		9.2.1.5A			
Position	0		9.2.1.70A		_	
>>>Received Total Wide Band Power	М		9.2.2.35A		-	
>>>Secondary CCPCH Info	0		9.2.2.37B		_	
>>>DL Code Information	М		FDD DL Code Information		_	
			9.2.2.14A			
>>>Diversity Indication	М		9.2.1.21		_	
>>>CHOICE Diversity Indication >>>>Combining	M				-	
>>>>RL ID	Μ		9.2.1.49	Reference RL ID for the combining	_	
>>>>DCH	0		9.2.1.16A	<u> </u>	YES	ignore
Information Response						-
>>>Non Combining or First RL					_	
>>>>DCH Information Response	М		9.2.1.16A		_	
>>>SSDT Support	М		9.2.2.43		-	
>>>Maximum Uplink SIR	М		Uplink SIR		_	
>>>Minimum Uplink SIR	М		Uplink SIR		_	
>>>Closed Loop Timing	0		9.2.1.69 9.2.2.3A		_	
Adjustment Mode	M		9.2.1.35		_	
UL Tx Power	M		DL Power		_	
Power			9.2.1.21A			
>>>Minimum DL TX Power	М		DL Power 9.2.1.21A		-	
>>>Primary CPICH Power	М		9.2.1.44		-	

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IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality	
>>>Primary Scrambling Code	0		9.2.1.45		_		
>>>UL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nu in ref. [6]	_		
>>>DL UARFCN	0		UARFCN 9.2.1.66	Corresponds to Nd in ref. [6]	_		
>>>DSCH Information Response	0		DSCH FDD Information Response 9.2.2.13B		YES	ignore	
>>>Neighbouring UMTS Cell Information	0		9.2.1.41A		_		
>>>Neighbouring GSM Cell Information	0		9.2.1.41C		-		
>>>PC Preamble	М		9.2.2.27a	-	-		
>>>SRB Delay	М		9.2.2.39A		-		
>>>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore	
>>>HCS Prio	<u>0</u>		<u>9.2.1.xx</u>		YES	ignore	
Uplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore	
Criticality Diagnostics	0		9.2.1.13		YES	ignore	

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

9.1.7 RADIO LINK ADDITION RESPONSE

9.1.7.1 FDD Message

IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
			and reference	description		Criticality
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		_	,
RL Information Response		1 <maxnoof< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxnoof<>			EACH	ignore
>RL ID	М	TILO TZ	92149		_	
>RL Set ID	M		92235		_	
>URA Information	0		9.2.1.70B		_	
>SAI	M		92152		_	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point	0		9.2.1.70A		_	
Received Total Wide Band Power	М		9.2.2.35A		_	
>Secondary CCPCH Info	0		92237B		_	
>DL Code Information	M		FDD DI		YES	ignore
			Code		0	ignore
			Information			
			9.2.2.14A			
>Diversity Indication	М		9.2.1.21		-	
>CHOICE Diversity Indication	М				_	
>>Combining					_	
>>>RL ID	М		9.2.1.49	Reference RL ID	-	
>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>Non Combining					-	
>>>DCH Information	М		9.2.1.16A		-	
Response						
>SSDT Support Indicator	М		9.2.2.43		—	
>Minimum Uplink SIR	Μ		Uplink SIR 9.2.1.69		-	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Closed Loop Timing Adjustment Mode	0		9.2.2.3A		_	
>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		_	
>Minimum DL TX Power	М		DL Power 9.2.1.21A		_	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		_	
>Neighbouring GSM Cell Information	0		9.2.1.41C			
>PC Preamble	Μ		9.2.2.27a		-	
>SRB Delay	Μ		9.2.2.39A		_	
>Primary CPICH Power	Μ		9.2.1.44		_	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>HCS Prio	0		<u>9.2.1.xx</u>		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

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

9.1.7.2 TDD Message

IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
			and	description		Criticality
			reference			
Message Type	М		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		_	
RL Information Response		01		Mandatory	YES	ignore
				For		
				3.84Mcps		
				TDD only		
>RL ID	М		9.2.1.49		_	
>URA Information	0		9.2.1.70B		-	
>SAI	М		9.2.1.52		_	
>Cell GAI	0		9.2.1.5A		_	
>UTRAN Access Point	0		9.2.1.70A		-	
Position						
>UL Time Slot ISCP Info	М		9.2.3.13D		_	
>Minimum Uplink SIR	М		Uplink SIR		-	
			9.2.1.69			
>Maximum Uplink SIR	М		Uplink SIR		-	
			9.2.1.69			
>Maximum Allowed UL Tx	М		9.2.1.35		-	
Power						
>Maximum DL TX Power	М		DL Power		_	
			9.2.1.21A			
>Minimum DL TX Power	М		DL Power		—	
			9.2.1.21A			
>PCCPCH Power	М		9.2.1.43		_	
>Timing Advance Applied	М		9.2.3.12A		_	
>Alpha Value	М		9.2.3.a		_	
>UL PhysCH SF Variation	М		9.2.3.13B		_	
>Synchronisation	M		9.2.3.7E		_	
Configuration						
>Secondary CCPCH Info	0		9.2.3.7B		—	
TDD						
>UL CCTrCH Information		0 <maxnoof< td=""><td></td><td>For DCH</td><td>GLOBAL</td><td>ignore</td></maxnoof<>		For DCH	GLOBAL	ignore
		CCTrCHs>				
>>CCTrCH ID	М		9.2.3.2		_	
>>UL DPCH		01			YES	ignore
Information						
>>>Repetition Period	М		9.2.3.7		-	
>>>Repetition Length	М		9.2.3.6		-	
>>>TDD DPCH Offset	М		9.2.3.8A		_	
>>>UL Timeslot	М		9.2.3.13C		-	
Information						
>DL CCTrCH Information		0 <maxnoof< td=""><td></td><td>For DCH</td><td>GLOBAL</td><td>ignore</td></maxnoof<>		For DCH	GLOBAL	ignore
		CCTrCHs>				
>>CCTrCH ID	М		9.2.3.2		_	-
>>DL DPCH		01			YES	ignore
Information						
>>>Repetition Period	M		9.2.3.7		-	
>>>Repetition Length	M		9.2.3.6		_	
>>>IDD DPCH Offset	M		9.2.3.8A		-	
>>>DL limeslot	M		9.2.3.2C		-	
		0.4				
>UCH Information		01	0.0.4.01		—	
>>Diversity Indication	M		9.2.1.21		_	
>>CHOICE Diversity	M				-	
>>>Combining				_	-	
>>>>RL ID	M		9.2.1.49	Reference	-	
			0.0.4.404	KL		:
>>>>DCH	U		9.2.1.16A		YES	ignore
Information						
Kesponse						
>>>ivon Combining			0.04.404		_	
>>>>UCH	IVI	1	9.2.1.16A		-	

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IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
Information			reference			
>DSCH Information		0			GLOBAL	ianore
Response		<maxnoof DSCHs></maxnoof 				.gere
>>DSCH ID	Μ		9.2.1.26A		—	
>>Transport Format Management	Μ		9.2.3.13		-	
>>DSCH Flow Control Information	М		9.2.1.26B		-	
>>CHOICE Diversity	0				—	
Indication						
>>>Ivon Combining	0		0.0.4.0		-	
>>>Binding ID	0		9.2.1.3		-	
Layer Address	0		9.2.1.62		-	
>USCH Information Response		0 <maxnoof USCHs></maxnoof 			GLOBAL	ignore
>>USCH ID	М		9.2.3.14		_	
>>Transport Format	M		9.2.3.13		_	
>>CHOICE Diversity	0				_	
>>Non Combining					_	
>>>>Binding ID	0		9.2.1.3		_	
>>>Transport Layer Address	0		9.2.1.62		-	
>Neighbouring UMTS Cell Information	0		9.2.1.41A		-	
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
RL Information Response LCR		01		Mandatory For 1.28Mcps	YES	ignore
				TDD only		
>RL ID	Μ		9.2.1.49		_	
>URA Information	M		9.2.1.70B		_	
>SAI	M		9.2.1.52		-	
>Cell GAI	0		9.2.1.5A		-	
>UTRAN Access Point Position	0		9.2.1.70A		-	
>UL Time Slot ISCP Info LCR	M		9.2.3.13H		-	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>PCCPCH Power	Μ		9.2.1.43		_	
>Maximum Allowed UL Tx Power	М		9.2.1.35		_	
>Maximum DL TX Power	М		DL Power 9.2.1.21A		-	
>Minimum DL TX Power	Μ		DL Power 9.2.1.21A		-	
>Alpha Value	Μ		9.2.3.a		-	
>UL PhysCH SF Variation	Μ		9.2.3.13B		_	
>Synchronisation Configuration	Μ		9.2.3.7E		_	
>Secondary CCPCH Info TDD LCR	0		9.2.3.7F		_	
>UL CCTrCH Information LCR		0 <maxnoof CCTrCHsLC</maxnoof 		For DCH	GLOBAL	ignore

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IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
		R>	Telefelice			
>>CCTrCH ID >>UL DPCH	M	01	9.2.3.2		– YES	ignore
Bonotition Doriod	N/		0.2.2.7			
>>>Repetition Length	M		9236			
>>TDD DPCH Offset	M		92384			
>>>UI Timeslot	M		9 2 3 13G		_	
Information LCR			0.2.0.100			
>DL CCTrCH Information LCR		0 <maxnoof CCTrCHsLC R></maxnoof 		For DCH	GLOBAL	ignore
>>CCTrCH ID	М		9.2.3.2		—	
>>DL DPCH		01			YES	ignore
Information LCR						
>>>Repetition Period	М		9.2.3.7		_	
>>>Repetition Length	М		9.2.3.6		_	
>>>TDD DPCH Offset	М		9.2.3.8A		_	
>>>DL Timeslot Information LCR	М		9.2.3.2E		_	
>>>TSTD Indicator	Μ		9.2.3.13E		_	
>DCH Information		01			YES	ignore
>>Diversity Indication	M		9.2.2.7		_	
>>CHOICE Diversity Indication	М				-	
>>>Combining					-	
>>>RL ID	М		9.2.1.49	Reference RL	-	
>>>Non Combining					_	
>>>>DCH	Μ		9.2.1.16A		-	
Information Response						
>DSCH Information Response LCR		0 <maxnoof DSCHsLCR</maxnoof 			GLOBAL	ignore
>>DSCH ID	М	-	92126A		_	
>>Transport Format	M		9.2.3.13		_	
Management			0.2.1.26P			
Information	IVI		9.2.1.200		_	
>>CHOICE Diversity Indication	0				-	
>>>Non Combining					_	
>>>>Binding ID	0		9.2.1.3		-	
>>>>Transport Layer Address	0		9.2.1.62		-	
>USCH Information Response LCR		0 <maxnoof USCHsLCR ></maxnoof 			GLOBAL	ignore
>>USCH ID	М		9.2.3.14	1	-	
>>Transport Format	М		9.2.3.13		-	
Management			-			
>>CHOICE Diversity Indication	0				-	
>>>Non Combinina					-	
>>>BindingID >>>>Transport	0 0		9.2.1.3 9.2.1.62		-	
Layer Address >Neighbouring UMTS Cell	0		9.2.1.41A			
>Neighbouring GSM Cell Information	0		9.2.1.41C		-	
<u> </u>	<u>0</u>		<u>9.2.1.xx</u>		YES	<u>ignore</u>

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IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Criticality Diagnostics	0		9.2.1.13		YES	ignore

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

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	М		92140		YES	reject
Transaction ID	M		9.2.1.59		-	10,000
CHOICE Cause Level	M				YES	ignore
>General					_	J
>>Cause	М		9.2.1.5		_	
>RL Specific					-	
>>Unsuccessful RL		1 <maxnoof< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxnoof<>			EACH	ignore
Information Response	-	RLs-1>				
>>>RL ID	M		9.2.1.49		_	
>>>Cause	M		9.2.1.5		_	
>>Successful RL		0 <maxnoot< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxnoot<>			EACH	ignore
Information Response	N.4	RLS-2>	0.0.1.40			
>>>RL ID			9.2.1.49		_	
	0		9.2.2.35 0.2.1.70B		_	
	M		9.2.1.700			
	0		92154		_	
>>>UTRAN Access	0		9.2.1.70A		_	
Point Position	•		0.2			
>>>Received Total	М		9.2.2.35A		_	
Wide Band Power						
>>>Secondary CCPCH	0		9.2.2.37B		_	
>>>DL Code	М		FDD DL		YES	ignore
Information			Code		_	5
			Information			
			9.2.2.14A			
>>>Diversity Indication	Μ		9.2.1.21		_	
>>>CHOICE Diversity	М				—	
Indication						
	N/		0 2 1 40	Poforonco	_	
			9.2.1.49	RL ID	_	
>>>>DCH	0		9.2.1.16A		YES	ignore
Information						
Response						
	M		0.2.1.164		_	
Information	171		3.2.1.10A		_	
Response						
>>>SSDT Support	М		9.2.2.43		_	
Indicator						
>>>Minimum Uplink SIR	Μ		Uplink SIR 9.2.1.69		-	
>>>Maximum Uplink	М		Uplink SIR		—	
>>>Closed Loop Timing	0		9.2.2.3A		-	
>>>Maximum Allowed	Μ		9.2.1.35		_	
UL Tx Power						
>>>Maximum DL TX Power	M		DL Power 9.2.1.21A		-	
>>>Minimum DL TX Power	M		DL Power 9.2.1.21A		_	
>>>Neighbouring	0		9.2.1.41A		_	
>>Neighbouring GSM	0		9.2.1.41C		_	
Cell Information >>>Primary CPICH	M		9.2.1.44		_	
Power						

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IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality	
>>>PC Preamble	М		9.2.2.27a		-		
>>>SRB Delay	М		9.2.2.39A		-		
>>>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore	
>>>HCS Prio	<u>0</u>		<u>9.2.1.xx</u>		YES	ignore	
Criticality Diagnostics	0		9.2.1.13		YES	ignore	

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

I

9.2.1.41B Neighbouring FDD Cell Information

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

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Neighbouring FDD Cell Information		1 <max noofFDD neighbou rs></max 			-	
>C-ld	М		9.2.1.6		_	
>UL UARFCN	Μ		UARFCN 9.2.1.66	Corresponds to Nu in ref. [6]	-	
>DL UARFCN	Μ		UARFCN 9.2.1.66	Corresponds to Nd in ref. [6]	-	
>Frame Offset	0		9.2.1.30		_	
>Primary Scrambling Code	М		9.2.1.45		—	
>Primary CPICH Power	0		9.2.1.44		—	
>Cell Individual Offset	0		9.2.1.7		—	
>Tx Diversity Indicator	Μ		9.2.2.50			
>STTD Support Indicator	0		9.2.2.45		—	
>Closed Loop Mode1 Support Indicator	0		9.2.2.2		_	
>Closed Loop Mode2 Support Indicator	0		9.2.2.3		-	
>Restriction State Indicator	0		9.2.1.48C		YES	ignore
>DPC Mode Change Support Indicator	0		9.2.2.56		YES	ignore
>Coverage Indicator	<u>0</u>		<u>9.2.1.xx</u>		YES	ignore
<u>>Antenna Co-location</u> <u>Indicator</u>	<u>0</u>		<u>9.2.1.xx</u>		<u>YES</u>	<u>ignore</u>
<u>>HCS Prio</u>	<u>0</u>		<u>9.2.1.xx</u>		<u>YES</u>	<u>ignore</u>

Range bound	Explanation
MaxnoofFDDneighbours	Maximum number of neighbouring FDD cell for one cell.

9.2.1.41C Neighbouring GSM Cell Information

The *Neighbouring GSM Cell Information* IE provides information for one GSM Cell that is a neighbouring cell to a cell in the DRNC.

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IE/Group Name	Presenc e	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Neighbouring GSM Cell Information		1 <maxno ofGSMnei ghbours></maxno 			GLOBAL	ignore
>CGI		1		Cell Global Identity as defined in ref. [1].	-	
>>PLMN Identity	M	1	OCTET STRING (3)	 digits 0 to 9, two digits per octet, each digit encoded 0000 to 1001, 1111 used as filler bit 4 to 1 of octet n encoding digit 2n-1 bit 8 to 5 of octet n encoding digit 2n The PLMN Identity consists of 3 digits from MCC followed by either a filler plus 2 digits from MNC (in case of 2 digit MNC) or 3 digits from MNC (in case of a 3 digits from 		
>>>LAC	M		OCTET STRING (2)	0000 and FFFE not allowed	-	
2201			STRING (2)		_	
>Cell Individual Offset	0		9.2.1.7	The Cell Individual Offset to be used for UEs using DCHs.	-	
>BSIC		1		Base Station Identity Code as defined in ref. [1].	-	
>>NCC	Μ		BIT STRING(3)	Network Colour Code.	_	
>>BCC	Μ		BIT STRING(3)	Base Station Colour Code.	-	
>Band Indicator	M		ENUMERA TED (DCS 1800 band, PCS 1900 band,)	Indicates whether or not the BCCH ARFCN belongs to the 1800 band or 1900 band of GSM frequencies.	-	
>BCCH ARFCN	Μ		INTEGER (01023)	BCCH Frequency as defined in ref. [29].	-	
>Coverage Indicator	<u>0</u>		<u>9.2.1.xx</u>		<u>YES</u>	ignore
<u>>Antenna Co-location</u> <u>Indicator</u>	0		<u>9.2.1.xx</u>		YES	ignore
<u>>HCS Prio</u>	<u>0</u>		<u>9.2.1.xx</u>		<u>YES</u>	ignore

Range bound	Explanation
MaxnoofGSMneighbours	Maximum number of neighbouring GSM cells for one cell.

9.2.1.41D Neighbouring TDD Cell Information

The *Neighbouring TDD Cell Information* IE provides information for 3.84Mcps TDD cells that are a neighbouring cells to a cell in the DRNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Neighbouring TDD Cell Information		1 <maxnoo fTDDneighb ours></maxnoo 			-	
>C-ld	М		9.2.1.6		_	
>UARFCN	М		9.2.1.66	Corresponds to Nt in ref. [7]	-	
>Frame Offset	0		9.2.1.30		_	
>Cell Parameter ID	Μ		9.2.1.8		_	
>Sync Case	Μ		9.2.1.54		_	
>Time Slot	C-Case1		9.2.1.56		-	
>SCH Time Slot	C-Case2		9.2.1.51		-	
>SCTD Indicator	Μ		9.2.1.78		-	
>Cell Individual Offset	0		9.2.1.7		-	
>DPCH Constant Value	0		9.2.1.23		-	
>PCCPCH Power	0		9.2.1.43		-	
>Restriction State Indicator	0		9.2.1.48C		YES	ignore
>Coverage Indicator	<u>0</u>		<u>9.2.1.xx</u>		YES	ignore
>Antenna Co-location Indicator	<u>0</u>		<u>9.2.1.xx</u>		YES	<u>ignore</u>
<u>>HCS Prio</u>	<u>0</u>		<u>9.2.1.xx</u>		<u>YES</u>	ignore

Condition	Explanation
Case1	The IE shall be present if the Sync Case IE is set to "Case1".
Case2	The IE shall be present if the Sync Case IE is set to "Case2".

Range bound	Explanation
MaxnoofTDDneighbours	Maximum number of neighbouring 3.84Mcps TDD cell for one cell.

9.2.1.xx Coverage Indicator

The Coverage Indicator indicates whether the serving and the neighbouring cell are overlapped, i.e. the cells have approximately same coverage area or whether the neighbouring cell covers or contained in the serving cell.

IE/Group Name	Presence	Range	IE type and	Semantics description
			<u>reference</u>	
Coverage Indicator			ENUMERAT	
			ED (Overlap,	
			Covers,	
			Contained	
			<u>in,)</u>	

9.2.1.xx Antenna Co-location Indicator

The Antenna Co-location Indicator indicates whether the antenna of the serving and neighbouring cells are approximately co-located.

IE/Group Name	Presence	<u>Range</u>	IE type and reference	Semantics description
Antenna Co-location			ENUMERAT	
Indicator			<u>ED (co-</u>	
			located,)	

9.2.1.xx HCS Prio

The HCS Prio is the characteristics of the cell as defined in [15].

IE/Group Name	Presence	<u>Range</u>	IE type and reference	Semantics description
HCS Prio			INTEGER	0=Lowest Priority,
			<u>(07)</u>	<u></u>
				7=Highest Priority

9.3.3 PDU Definitions

_ _ -- PDU definitions for RNSAP. -- Unaffected parts are omitted. AlphaValue, AntennaColocationIndicator, BLER, -- Unaffected parts are omitted. CommonMeasurementValueInformation, CoverageIndicator, CriticalityDiagnostics, D-RNTI, D-RNTI-ReleaseIndication, -- Unaffected parts are omitted. GA-Cell, GA-CellAdditionalShapes, HCS-Prio, IMSI, InformationExchangeID, InformationReportCharacteristics, InformationType, InnerLoopDLPCStatus,

-- Unaffected parts are omitted.

FROM RNSAP-Containers

maxNoOfDSCHs,
maxNoOfUSCHs,

-- Unaffected parts are omitted. id-AdjustmentRatio, id-AllowedQueuingTime, id-AntennaColocationIndicator, id-BindingID, id-C-ID, id-C-RNTI, Release 4 -- Unaffected parts are omitted. id-CommonMeasurementObjectType-CM-Rsp, id-CommonMeasurementType, id-CoverageIndicator, id-CriticalityDiagnostics, id-D-RNTI,

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-- Unaffected parts are omitted.

id-GA-Cell, id-GA-CellAdditionalShapes, id-HCS-Prio, id-IMSI, id-InformationExchangeID,

-- Unaffected parts are omitted.

*********	* * * * * * * * * * * * * * * * * * * *	* * *		
 RADIO LINK SETUP RESPONSE FDD 				

RadioLinkSetupResponseFDD ::= SEQUE	NCE {			
protocolIEs protocolExtensions	ProtocolIE-Container ProtocolExtensionContainer	{{RadioLinkSetupResponseFDD-IEs}} {{RadioLinkSetupResponseFDD-Exter	}, nsions}}	OPTIONAL,
}				
RadioLinkSetupResponseFDD-IEs RNSAP	-PROTOCOL-IES ::= {			
<pre>{ ID id-D-RNTI { ID id-CN-PS-DomainIdentifier { ID id-CN-CS-DomainIdentifier { ID id-RL-InformationResponseL { ID id-UL-SIRTarget { ID id-CriticalityDiagnostics }</pre>	CRITICALITY ignore CRITICALITY ignore CRITICALITY ignore ist-RL-SetupRspFDD CRITIC CRITICALITY ignore CRITICALITY ignore	TYPE D-RNTI TYPE CN-PS-DomainIdentifier TYPE CN-CS-DomainIdentifier ALITY ignore TYPE RL-InformationF TYPE UL-SIR PRES TYPE CriticalityDiagnostics	<pre>PRESENCE optional } PRESENCE optional } PRESENCE optional } ResponseList-RL-SetupRspFDI SENCE optional } PRESENCE optional },</pre>	<pre>PRESENCE mandatory } </pre>
RL-InformationResponseList-RL-Setup SetupRspFDD} }	RspFDD ::= SEQUENCE (SIZE (1maxNrOfRLs)) OF Protocoll	IE-Single-Container { {RL-1	informationResponseItemIEs-RL-

RL-InformationResponseItemIEs-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {

{ ID id-RL-InformationResponseItem-RL-SetupRspFDD

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}

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

RL-Inf	ormationResponseItem-RL-Setu;	pRspFDD ::= SEQUENCE {			
rL	-ID	RL-ID,			
rL	-Set-ID	RL-Set-ID,			
uR.	A-Information	URA-Information OPTIONAL,			
sA	I	SAI,			
gA	-Cell	GA-Cell OPTIONAL,			
gA	-AccessPointPosition	GA-AccessPointPosition OPTIONAL,			
re	ceived-total-wide-band-power	Received-total-wide-band-power,			
se	condary-CCPCH-Info	Secondary-CCPCH-Info OPTIONAL,			
dl	-CodeInformation	FDD-DL-CodeInformation,			
di	versityIndication	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.			
sS	DT-SupportIndicator	SSDT-SupportIndicator,			
ma	xUL-SIR	UL-SIR,			
mi	nUL-SIR	UL-SIR,			
cl	osedlooptimingadjustmentmode	Closedlooptimingadjustmentmode OPTIONAL,			
ma	ximumAllowedULTxPower	MaximumAllowedULTxPower,			
ma	ximumDLTxPower	DL-Power,			
mi	nimumDLTxPower	DL-Power,			
pr	imaryScramblingCode	PrimaryScramblingCode OPTIONAL,			
uL	-UARFCN	UARFCN OPTIONAL,			
dL	-UARFCN	UARFCN OPTIONAL,			
pr	imaryCPICH-Power	PrimaryCPICH-Power,			
dS	CHInformationResponse	DSCH-InformationResponse-RL-SetupRspFDD OPTIONAL,			
ne	ighbouring-UMTS-CellInformat	ion Neighbouring-UMTS-CellInformation OPTIONAL,			
ne	ighbouring-GSM-CellInformati	on Neighbouring-GSM-CellInformation OPTIONAL,			
pC	-Preamble	PC-Preamble,			
sR	B-Delay	SRB-Delay,			
iE	-Extensions	ProtocolExtensionContainer { {RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,			
, ··	•				
}					
		(
RL-Int	ormationResponseItem-RL-Setu	prspFDD-Extles RNSAP-PROTOCOL-EXTENSION ::= {			
{	ID id-GA-CellAdditionalShape	s CRITICALITY ignore EXTENSION GA-CellAdditionalShapes PRESENCE optional $\int_{-\tau}^{\tau}$			
{	ID 1d-HCS-Prio CR	TTICALITY ignore EXTENSION HCS-Prio PRESENCE optional },			
• • •					
1					
}					
D./	iter to direction DL Cotom Dow DDD				
Divers	ityindication-RL-SetupRspFDD	Carbonne A. Catan Bar 200			
CO	mpining n Gambining				
no:	ncombiningOrFirstRL	NOUCOMDININGOLLIZETETETETETETETETETETETETETETETETETETET			
Ì					
Combin	ing DI CotumDerEDD CROWN				
COMDIN	ING-KL-SecupksprDD ::= SEQUE				
T.P.	-IU RL	-12, ptocolExtoncionContainor { { CombiningItom BL_SaturDarEDD ExtITES } OPTIONAL			
ТĘ	-EAUCHISTOHS PT	StocorestensionContainer { { Compringitem=KL-SetupAspron=Extres} } OPIIONAL,			

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                                                                 3GPP TS 25.423 v4.3.0 (2001-12)
    . . .
CombiningItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . . ,
    { ID id-DCH-InformationResponse
                                          CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                   PRESENCE optional }
NonCombiningOrFirstRL-RL-SetupRspFDD ::= SEQUENCE {
    dCH-InformationResponse
                              DCH-InformationResponse,
    iE-Extensions
                              ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs } } OPTIONAL,
    . . .
NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DSCH-InformationResponse-RL-SetupRspFDD ::= ProtocolIE-Single-Container {{ DSCH-InformationResponseIE-RL-SetupRspFDD }}
DSCH-InformationResponseIE-RL-SetupRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-FDD-InformationResponse CRITICALITY ignore TYPE
                                                                     DSCH-FDD-InformationResponse PRESENCE mandatory }
RadioLinkSetupResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
    _ _
-- RADIO LINK SETUP RESPONSE TDD
         ************
RadioLinkSetupResponseTDD ::= SEQUENCE {
                                                             {{RadioLinkSetupResponseTDD-IEs}},
   protocolIEs
                                  ProtocolIE-Container
                                  ProtocolExtensionContainer {{RadioLinkSetupResponseTDD-Extensions}}
   protocolExtensions
                                                                                                                     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 optional }
    --Mandatory for 3.84Mcps TDD only
    { ID id-UL-SIRTarget
                                      CRITICALITY ignore TYPE UL-SIR
                                                                                    PRESENCE mandatory }
                                          CRITICALITY ignore TYPE CriticalityDiagnostics
    { ID id-CriticalityDiagnostics
                                                                                              PRESENCE optional },
    . . .
```

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36 3GPP TS 25.423 v4.3.0 (2001-12) RL-InformationResponse-RL-SetupRspTDD ::= SEQUENCE { rL-TD RL-ID, uRA-Information URA-Information OPTIONAL, SAI, sAI gA-Cell GA-Cell OPTIONAL, GA-AccessPointPosition OPTIONAL, qA-AccessPointPosition ul-TimeSlot-ISCP-Info UL-TimeSlot-ISCP-Info, maxUL-SIR UL-SIR. minUL-SIR UL-SIR, maximumAllowedULTxPower MaximumAllowedULTxPower, maximumDLTxPower DL-Power, minimumDLTxPower DL-Power, uARFCNforNt UARFCN OPTIONAL. cellParameterID CellParameterID OPTIONAL, syncCase SyncCase OPTIONAL, sCH-TimeSlot SCH-TimeSlot OPTIONAL, -- This IE shall be present if Sync Case IE is Case2. -block-STTD-Indicator Block-STTD-Indicator OPTIONAL, pCCPCH-Power PCCPCH-Power, timingAdvanceApplied TimingAdvanceApplied, alphaValue AlphaValue, ul-PhysCH-SF-Variation UL-PhysCH-SF-Variation, synchronisationConfiguration SynchronisationConfiguration, secondary-CCPCH-Info-TDD Secondary-CCPCH-Info-TDD OPTIONAL, ul-CCTrCHInformation UL-CCTrCHInformationList-RL-SetupRspTDD OPTIONAL, dl-CCTrCHInformation DL-CCTrCHInformationList-RL-SetupRspTDD OPTIONAL, dCH-InformationResponse DCH-InformationResponseList-RL-SetupRspTDD OPTIONAL, dsch-InformationResponse DSCH-InformationResponse-RL-SetupRspTDD OPTIONAL, usch-InformationResponse USCH-InformationResponse-RL-SetupRspTDD OPTIONAL, neighbouring-UMTS-CellInformation Neighbouring-UMTS-CellInformation OPTIONAL, neighbouring-GSM-CellInformation Neighbouring-GSM-CellInformation OPTIONAL, ProtocolExtensionContainer { {RL-InformationResponse-RL-SetupRspTDD-ExtIEs} } OPTIONAL, iE-Extensions . . . RL-InformationResponse-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { ID id-GA-CellAdditionalShapes PRESENCE optional } CRITICALITY ignore EXTENSION GA-CellAdditionalShapes { ID id-HCS-Prio CRITICALITY ignore EXTENSION HCS-Prio PRESENCE optional }, UL-CCTrCHInformationList-RL-SetupRspTDD ::= Protocolle-Single-Container {{UL-CCTrCHInformationListles-RL-SetupRspTDD}} UL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= { { ID id-UL-CCTrCH-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE UL-CCTrCHInformationListIE-RL-SetupRspTDD UL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCHInformationItem-RL-SetupRspTDD

UL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {

PRESENCE mandatory

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                                                                     3GPP TS 25.423 v4.3.0 (2001-12)
    cCTrCH-ID
                                CCTrCH-ID.
    ul-DPCH-Information
                                    UL-DPCH-InformationList-RL-SetupRspTDD
                                                                                 OPTIONAL,
                                    ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
UL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {UL-DPCH-InformationListIEs-RL-SetupRspTDD } }
UL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationItem-RL-SetupRspTDD
                                                        CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-SetupRspTDD PRESENCE mandatory
UL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    uL-Timeslot-Information
                                    UL-Timeslot-Information,
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    . . .
UL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-CCTrCHInformationList-RL-SetupRspTDD ::= Protocolle-Single-Container {{DL-CCTrCHInformationListIEs-RL-SetupRspTDD}}
DL-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-SetupRspTDD PRESENCE mandatory }
DL-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-SetupRspTDD
DL-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    dl-DPCH-Information
                                    DL-DPCH-InformationList-RL-SetupRspTDD
                                                                                 OPTIONAL,
                                    ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DL-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container { {DL-DPCH-InformationListIEs-RL-SetupRspTDD } }
```

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```

```
DL-DPCH-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
                                                        CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-SetupRspTDD PRESENCE mandatory }
    { ID id-DL-DPCH-InformationItem-RL-SetupRspTDD
DL-DPCH-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    dL-Timeslot-Information
                                    DL-Timeslot-Information,
                                    ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-InformationResponseList-RL-SetupRspTDD ::= ProtocollE-Single-Container {{DCH-InformationResponseListIEs-RL-SetupRspTDD}}
DCH-InformationResponseListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse CRITICALITY ignore
                                                           TYPE DCH-InformationResponse PRESENCE mandatory }
ļ
DSCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DSCH-InformationList-RL-SetupRspTDD}}
DSCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
                                                        CRITICALITY ignore TYPE DSCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory }
    { ID id-DSCH-InformationListIEs-RL-SetupRspTDD
DSCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-SetupRspTDD
DSCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dsch-ID
                            DSCH-ID,
    dSCH-FlowControlInformation
                                    DSCH-FlowControlInformation,
    bindingID
                            BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress
                                                   OPTIONAL,
    transportFormatManagement TransportFormatManagement,
                            ProtocolExtensionContainer { {DSCHInformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL.
    iE-Extensions
    . . .
DSCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
USCH-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{USCH-InformationList-RL-SetupRspTDD}}
USCH-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-InformationListIEs-RL-SetupRspTDD
                                                        CRITICALITY ignore TYPE USCH-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory }
```

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USCH-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-SetupRspTDD
USCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    usch-ID
                                USCH-ID,
    bindingID
                                BindingID OPTIONAL,
                                                        OPTIONAL,
    transportLaverAddress
                                TransportLaverAddress
    transportFormatManagement
                                TransportFormatManagement,
    iE-Extensions
                                ProtocolExtensionContainer { {USCHInformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    . . .
USCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkSetupResponseTDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-RL-LCR-InformationResponse-RL-SetupRspTDD CRITICALITY ignore EXTENSION RL-LCR-InformationResponse-RL-SetupRspTDD
                                                                                                                                        PRESENCE
mandatory },
    --Mandatory for 1.28Mcps TDD only
    . . .
RL-LCR-InformationResponse-RL-SetupRspTDD ::= SEQUENCE {
    rL-ID
                                RL-ID.
    uRA-Information
                                URA-Information,
    sAI
                                SAI.
    gA-Cell
                                GA-Cell
                                            OPTIONAL,
    qA-AccessPointPosition
                                GA-AccessPointPosition OPTIONAL,
    ul-TimeSlot-ISCP-LCR-Info
                                UL-TimeSlot-ISCP-LCR-Info,
    maxUL-SIR
                                UL-SIR,
    minUL-SIR
                                UL-SIR,
                                MaximumAllowedULTxPower,
    maximumAllowedULTxPower
    maximumDLTxPower
                                DL-Power,
    minimumDLTxPower
                                DL-Power,
    uARFCNforNt.
                                UARFCN
                                                         OPTIONAL,
    cellParameterID
                                CellParameterID
                                                         OPTIONAL,
    block-STTD-Indicator
                                Block-STTD-Indicator
                                                         OPTIONAL,
    pCCPCH-Power
                                PCCPCH-Power,
    alphaValue
                                AlphaValue,
    ul-PhysCH-SF-Variation
                                UL-PhysCH-SF-Variation,
    synchronisationConfiguration
                                             SynchronisationConfiguration,
    secondary-LCR-CCPCH-Info-TDD
                                             Secondary-LCR-CCPCH-Info-TDD
                                                                                              OPTIONAL,
    ul-LCR-CCTrCHInformation
                                            UL-LCR-CCTrCHInformationList-RL-SetupRspTDD
                                                                                              OPTIONAL,
    dl-LCR-CCTrCHInformation
                                            DL-LCR-CCTrCHInformationList-RL-SetupRspTDD
                                                                                              OPTIONAL,
    dCH-InformationResponse
                                             DCH-InformationResponseList-RL-SetupRspTDD
                                                                                              OPTIONAL,
    dsch-LCR-InformationResponse
                                            DSCH-LCR-InformationResponse-RL-SetupRspTDD
                                                                                              OPTIONAL,
    usch-LCR-InformationResponse
                                             USCH-LCR-InformationResponse-RL-SetupRspTDD
                                                                                              OPTIONAL,
    neighbouring-UMTS-CellInformation
                                            Neighbouring-UMTS-CellInformation
                                                                                              OPTIONAL,
    neighbouring-GSM-CellInformation
                                            Neighbouring-GSM-CellInformation
                                                                                              OPTIONAL,
    iE-Extensions
                                             ProtocolExtensionContainer { { RL-LCR-InformationResponseList-RL-SetupRspTDD-ExtIEs } }
                                                                                                                                        OPTIONAL,
```

```
. . .
```
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                                                                     3GPP TS 25.423 v4.3.0 (2001-12)
RL-LCR-InformationResponseList-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UL-LCR-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{UL-LCR-CCTrCHInformationListIEs-RL-SetupRspTDD}}
UL-LCR-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE UL-LCR-CCTrCHInformationListIE-RL-SetupRspTDD
                                                                                                                                      PRESENCE mandatory
UL-LCR-CCTrCHInformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHsLCR)) OF UL-LCR-CCTrCHInformationItem-RL-SetupRspTDD
UL-LCR-CCTrCHInformationItem-RL-SetupRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    ul-DPCH-LCR-Information
                                UL-DPCH-LCR-InformationList-RL-SetupRspTDD
                                                                                 OPTIONAL,
    iE-Extensions
                                ProtocolExtensionContainer { { UL-LCR-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    . . .
UL-LCR-CCTrCHInformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-LCR-InformationList-RL-SetupRspTDD ::= ProtocollE-Single-Container { {UL-DPCH-LCR-InformationListIEs-RL-SetupRspTDD }
UL-DPCH-LCR-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-LCR-InformationItem-RL-SetupRspTDD
                                                            CRITICALITY ignore TYPE UL-DPCH-LCR-InformationItem-RL-SetupRspTDD PRESENCE mandatory }
UL-DPCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
                                    UL-TimeslotLCR-Information,
    uL-TimeslotLCR-Information
                                    ProtocolExtensionContainer { {UL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL.
    iE-Extensions
    . . .
UL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-LCR-CCTrCHInformationList-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DL-LCR-CCTrCHInformationListIEs-RL-SetupRspTDD}}
DL-LCR-CCTrCHInformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD CRITICALITY ignore TYPE DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD PRESENCE mandatory
```

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DL-CCTrCH-LCR-InformationListIE-RL-SetupRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHsLCR)) OF DL-CCTrCH-LCR-InformationItem-RL-SetupRspTDD
DL-CCTrCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    dl-DPCH-LCR-Information
                                DL-DPCH-LCR-InformationList-RL-SetupRspTDD
                                                                                 OPTIONAL,
    iE-Extensions
                                ProtocolExtensionContainer { {DL-CCTrCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL.
    . . .
DL-CCTrCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
ļ
DL-DPCH-LCR-InformationList-RL-SetupRspTDD ::= ProtocollE-Single-Container { {DL-DPCH-LCR-InformationListIEs-RL-SetupRspTDD }
DL-DPCH-LCR-InformationListIEs-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-LCR-InformationItem-RL-SetupRspTDD
                                                            CRITICALITY ignore TYPE DL-DPCH-LCR-InformationItem-RL-SetupRspTDD PRESENCE mandatory
DL-DPCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    dL-Timeslot-LCR-Information
                                    DL-TimeslotLCR-Information,
    tSTD-Indicator
                                    TSTD-Indicator,
                                    ProtocolExtensionContainer { {DL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DSCH-LCR-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{DSCH-LCR-InformationList-RL-SetupRspTDD}}
DSCH-LCR-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-LCR-InformationListIEs-RL-SetupRspTDD
                                                            CRITICALITY ignore TYPE DSCH-LCR-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory }
DSCH-LCR-InformationListIEs-RL-SetupRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHsLCR)) OF DSCH-LCR-InformationItem-RL-SetupRspTDD
DSCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
    dsch-ID
                            DSCH-ID,
    dSCH-FlowControlInformation
                                    DSCH-FlowControlInformation,
    bindingID
                            BindingID OPTIONAL,
    transportLayerAddress
                           TransportLayerAddress OPTIONAL,
    transportFormatManagement TransportFormatManagement,
                            ProtocolExtensionContainer { {DSCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
```

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DSCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
USCH-LCR-InformationResponse-RL-SetupRspTDD ::= ProtocolIE-Single-Container {{USCH-LCR-InformationList-RL-SetupRspTDD}}
USCH-LCR-InformationList-RL-SetupRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-LCR-InformationListIEs-RL-SetupRspTDD
                                                         CRITICALITY ignore TYPE USCH-LCR-InformationListIEs-RL-SetupRspTDD PRESENCE mandatory
USCH-LCR-InformationListIEs-RL-SetupRspTDD ::= SEOUENCE (SIZE(0..maxNoOfUSCHsLCR)) OF USCH-LCR-InformationItem-RL-SetupRspTDD
USCH-LCR-InformationItem-RL-SetupRspTDD ::= SEQUENCE {
   usch-ID
                              USCH-ID.
   bindingID
                              BindingID OPTIONAL,
    transportLayerAddress
                              TransportLaverAddress OPTIONAL,
    transportFormatManagement
                              TransportFormatManagement,
                              ProtocolExtensionContainer { {USCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
USCH-LCR-InformationItem-RL-SetupRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ****
_ _
-- RADIO LINK SETUP FAILURE FDD
  ****
RadioLinkSetupFailureFDD ::= SEQUENCE {
                                  ProtocolIE-Container
                                                            {{RadioLinkSetupFailureFDD-IEs}},
   protocolIEs
                                  ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}}
   protocolExtensions
                                                                                                                   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 } |
                                                                                    PRESENCE optional }
     ID id-UL-SIRTarget
                                      CRITICALITY ignore TYPE UL-SIR
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                             PRESENCE optional },
    { ID id-CriticalityDiagnostics
    . . .
CauseLevel-RL-SetupFailureFDD ::= CHOICE {
                      GeneralCauseList-RL-SetupFailureFDD,
    generalCause
    rLSpecificCause
                      RLSpecificCauseList-RL-SetupFailureFDD,
    . . .
```

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                                                                     3GPP TS 25.423 v4.3.0 (2001-12)
GeneralCauseList-RL-SetupFailureFDD ::= SEQUENCE {
    cause
                                                Cause,
                                                ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                OPTIONAL,
    . . .
GeneralCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    . . .
}
RLSpecificCauseList-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 ::= SEOUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { { 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 ::= SEOUENCE (SIZE (0..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {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
```

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rL-ID RL-ID, rL-Set-ID RL-Set-ID, uRA-Information URA-Information OPTIONAL, sAI SAI, GA-Cell OPTIONAL, qA-Cell qA-AccessPointPosition GA-AccessPointPosition OPTIONAL. received-total-wide-band-power Received-total-wide-band-power, secondary-CCPCH-Info Secondary-CCPCH-Info OPTIONAL. dl-CodeInformation FDD-DL-CodeInformation, 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, primaryCPICH-Power PrimaryCPICH-Power, primaryScramblingCode PrimaryScramblingCode OPTIONAL, uL-UARFCN UARFCN OPTIONAL, dL-UARFCN UARFCN OPTIONAL, dSCH-InformationResponse-RL-SetupFailureFDD DSCH-InformationResponseList-RL-SetupFailureFDD OPTIONAL. neighbouring-UMTS-CellInformation Neighbouring-UMTS-CellInformation OPTIONAL, neighbouring-GSM-CellInformation Neighbouring-GSM-CellInformation OPTIONAL, pC-Preamble PC-Preamble, sRB-Delav SRB-Delay, iE-Extensions ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL. . . . SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { PRESENCE optional } { ID id-GA-CellAdditionalShapes CRITICALITY ignore EXTENSION GA-CellAdditionalShapes ID id-HCS-Prio CRITICALITY ignore EXTENSION PRESENCE optional }, HCS-Prio DiversityIndication-RL-SetupFailureFDD ::= CHOICE { combining Combining-RL-SetupFailureFDD, nonCombiningOrFirstRL NonCombiningOrFirstRL-RL-SetupFailureFDD Combining-RL-SetupFailureFDD ::= SEQUENCE { rL-ID RL-ID, iE-Extensions ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL, . . . CombiningItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

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                                                                3GPP TS 25.423 v4.3.0 (2001-12)
    { ID id-DCH-InformationResponse
                                         CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                 PRESENCE optional }
NonCombiningOrFirstRL-RL-SetupFailureFDD ::= SEQUENCE {
   dCH-InformationResponse
                                         DCH-InformationResponse,
                                         ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
   iE-Extensions
    . . .
NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DSCH-InformationResponseList-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ DSCH-InformationResponseListIEs-RL-SetupFailureFDD }}
DSCH-InformationResponseListIEs-RL-SetupFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-FDD-InformationResponse CRITICALITY ignore TYPE DSCH-FDD-InformationResponse
                                                                                              PRESENCE mandatory }
}
RadioLinkSetupFailureFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::=
    . . .
-- Unaffected parts are omitted.
     -- RADIO LINK ADDITION RESPONSE FDD
      RadioLinkAdditionResponseFDD ::= SEQUENCE {
   protocolIEs
                                 ProtocolIE-Container
                                                           {{RadioLinkAdditionResponseFDD-IEs}},
                                 ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}
   protocolExtensions
                                                                                                                      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
                                                 ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { {RL-
InformationResponseItemIEs-RL-AdditionRspFDD }
```

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RL-InformationResponseItemIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponseItem-RL-AdditionRspFDD
                                                                CRITICALITY ignore TYPE RL-InformationResponseItem-RL-AdditionRspFDD
                                                                                                                                         PRESENCE
mandatory }
RL-InformationResponseItem-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID
                                    RL-ID.
    rL-Set-ID
                                    RL-Set-ID,
    uRA-Information
                                    URA-Information
                                                        OPTIONAL,
    sΔT
                                    SAI,
                                    GA-Cell
    qA-Cell
                                                OPTIONAL.
    qA-AccessPointPosition
                                    GA-AccessPointPosition OPTIONAL,
    received-total-wide-band-power Received-total-wide-band-power,
    secondary-CCPCH-Info
                                    Secondary-CCPCH-Info
                                                                OPTIONAL,
    dl-CodeInformation
                                    DL-CodeInformationList-RL-AdditionRspFDD,
    diversitvIndication
                                    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,
    maximumDLTxPower
                                        DL-Power,
    minimumDLTxPower
                                        DL-Power,
    neighbouring-UMTS-CellInformation
                                        Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
                                        Neighbouring-GSM-CellInformation OPTIONAL,
    pC-Preamble
                                        PC-Preamble,
    sRB-Delay
                                        SRB-Delay,
    primaryCPICH-Power
                                        PrimaryCPICH-Power,
                                        ProtocolExtensionContainer { {RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    { ID id-GA-CellAdditionalShapes
                                                                                                        PRESENCE optional }
                                            CRITICALITY ignore EXTENSION
                                                                            GA-CellAdditionalShapes
                                CRITICALITY ignore EXTENSION
      ID id-HCS-Prio
                                                                HCS-Prio
                                                                                PRESENCE optional },
DL-CodeInformationList-RL-AdditionRspFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-AdditionRspFDD }}
DL-CodeInformationListIEs-RL-AdditionRspFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-FDD-DL-CodeInformation CRITICALITY ignore TYPE FDD-DL-CodeInformation
                                                                                         PRESENCE mandatory
}
DiversityIndication-RL-AdditionRspFDD ::= CHOICE {
    combining
                                    Combining-RL-AdditionRspFDD,
    nonCombining
                                    NonCombining-RL-AdditionRspFDD
```

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                                                                3GPP TS 25.423 v4.3.0 (2001-12)
}
Combining-RL-AdditionRspFDD ::= SEQUENCE {
   rL-ID
                              RL-ID,
   iE-Extensions
                              ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL.
    . . .
CombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DCH-InformationResponse
                                         CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                  PRESENCE optional }
ļ
NonCombining-RL-AdditionRspFDD ::= SEQUENCE
   dCH-InformationResponse
                                         DCH-InformationResponse,
   iE-Extensions
                                             ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    . . .
NonCombiningItem-RL-AdditionRspFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
RadioLinkAdditionResponseFDD-Extensions RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
    ********
_ _
-- RADIO LINK ADDITION RESPONSE TDD
RadioLinkAdditionResponseTDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {{RadioLinkAdditionResponseTDD-IEs}},
                                  ProtocolExtensionContainer {{RadioLinkAdditionResponseTDD-Extensions}}
   protocolExtensions
                                                                                                                       OPTIONAL,
    . . .
RadioLinkAdditionResponseTDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-RL-InformationResponse-RL-AdditionRspTDD
                                                         CRITICALITY ignore TYPE RL-InformationResponse-RL-AdditionRspTDD PRESENCE optional } |
    --Mandatory for 3.84Mcps TDD only
    { ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                            PRESENCE optional },
    . . .
RL-InformationResponse-RL-AdditionRspTDD ::= SEQUENCE {
   rL-ID
                                      RL-ID,
   uRA-Information
                                     URA-Information
                                                         OPTIONAL.
    sAI
                                      SAI,
   gA-Cell
                                     GA-Cell
                                                 OPTIONAL,
```

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                                                                     3GPP TS 25.423 v4.3.0 (2001-12)
    qA-AccessPointPosition
                                        GA-AccessPointPosition OPTIONAL,
    ul-TimeSlot-ISCP-Info
                                        UL-TimeSlot-ISCP-Info,
    minUL-STR
                                        UL-SIR,
    maxUL-SIR
                                        UL-SIR,
    maximumAllowedULTxPower
                                        MaximumAllowedULTxPower,
    maximumDLTxPower
                                        DL-Power,
    minimumDLTxPower
                                        DL-Power,
    pCCPCH-Power
                                        PCCPCH-Power.
    timingAdvanceApplied
                                        TimingAdvanceApplied,
    alphaValue
                                        AlphaValue,
    ul-PhysCH-SF-Variation
                                        UL-PhysCH-SF-Variation,
    synchronisationConfiguration
                                        SynchronisationConfiguration,
    secondary-CCPCH-Info-TDD
                                        Secondary-CCPCH-Info-TDD
                                                                                         OPTIONAL,
    ul-CCTrCHInformation
                                        UL-CCTrCHInformationList-RL-AdditionRspTDD
                                                                                         OPTIONAL,
    dl-CCTrCHInformation
                                        DL-CCTrCHInformationList-RL-AdditionRspTDD
                                                                                         OPTIONAL,
    dCH-Information
                                        DCH-Information-RL-AdditionRspTDD
                                                                                         OPTIONAL,
    dSCH-InformationResponse
                                        DSCH-InformationResponse-RL-AdditionRspTDD
                                                                                         OPTIONAL,
                                        USCH-InformationResponse-RL-AdditionRspTDD
    uSCH-InformationResponse
                                                                                         OPTIONAL,
    neighbouring-UMTS-CellInformation
                                        Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
                                        Neighbouring-GSM-CellInformation OPTIONAL,
    iE-Extensions
                                        ProtocolExtensionContainer { {RL-InformationResponse-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    . . .
RL-InformationResponse-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::=
    { ID id-GA-CellAdditionalShapes
                                            CRITICALITY ignore EXTENSION GA-CellAdditionalShapes
                                                                                                         PRESENCE optional }
      ID id-HCS-Prio
                                CRITICALITY ignore EXTENSION
                                                              HCS-Prio
                                                                                 PRESENCE optional },
UL-CCTrCHInformationList-RL-AdditionRspTDD ::= Protocolle-Single-Container {{UL-CCTrCHInformationListles-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,
                                    ProtocolExtensionContainer { {UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
```

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                                                                     3GPP TS 25.423 v4.3.0 (2001-12)
UL-DPCH-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { { UL-DPCH-InformationListIEs-RL-AdditionRspTDD } }
UL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationItem-RL-AdditionRspTDD
                                                             CRITICALITY ignore TYPE UL-DPCH-InformationItem-RL-AdditionRspTDD PRESENCE mandatory
ļ
UL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    uL-Timeslot-Information
                                    UL-Timeslot-Information,
                                    ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCHInformationList-RL-AdditionRspTDD ::= Protocolle-Single-Container {{DL-CCTrCHInformationListIes-RL-AdditionRspTDD}}
DL-CCTrCHInformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE DL-CCTrCHInformationListIE-RL-AdditionRspTDD
                                                                                                                                       PRESENCE mandatory
DL-CCTrCHInformationListIE-RL-AdditionRspTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCHInformationItem-RL-AdditionRspTDD
DL-CCTrCHInformationItem-RL-AdditionRspTDD ::= SEOUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    dl-DPCH-Information
                                    DL-DPCH-InformationList-RL-AdditionRspTDD
                                                                                     OPTIONAL,
                                    ProtocolExtensionContainer { {DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-CCTrCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { {DL-DPCH-InformationListIEs-RL-AdditionRspTDD } }
DL-DPCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationItem-RL-AdditionRspTDD
                                                             CRITICALITY ignore TYPE DL-DPCH-InformationItem-RL-AdditionRspTDD PRESENCE mandatory
DL-DPCH-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    repetitionPeriod
                                    RepetitionPeriod,
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    dL-Timeslot-Information
                                    DL-Timeslot-Information,
    iE-Extensions
                                    ProtocolExtensionContainer { {DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
```

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                                                                     3GPP TS 25.423 v4.3.0 (2001-12)
    . . .
DL-DPCH-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-Information-RL-AdditionRspTDD ::= SEQUENCE {
    diversityIndication
                                        DiversityIndication-RL-AdditionRspTDD,
    -- This IE represents both the Diversity Indication IE and the choice based on the diversity indication as described in
    -- the tabular message format in subclause 9.1.
                                    ProtocolExtensionContainer { { DCH-Information-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DCH-Information-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DiversityIndication-RL-AdditionRspTDD ::= CHOICE {
    combining
                    Combining-RL-AdditionRspTDD,
    nonCombining
                    NonCombining-RL-AdditionRspTDD
}
Combining-RL-AdditionRspTDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    iE-Extensions
                                ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL.
    . . .
}
CombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DCH-InformationResponse
                                            CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                         PRESENCE optional }
NonCombining-RL-AdditionRspTDD ::= SEQUENCE {
    dCH-InformationResponse
                                DCH-InformationResponse,
    iE-Extensions
                                    ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL.
    . . .
}
NonCombiningItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DSCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DSCH-InformationListIEs-RL-AdditionRspTDD}}
DSCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationListIE-RL-AdditionRspTDD
                                                       CRITICALITY ignore TYPE DSCH-InformationListIE-RL-AdditionRspTDD
                                                                                                                             PRESENCE mandatory
}
```

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                                                                     3GPP TS 25.423 v4.3.0 (2001-12)
DSCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHs)) OF DSCHInformationItem-RL-AdditionRspTDD
DSCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dsch-ID
                            DSCH-ID,
    transportFormatManagement TransportFormatManagement,
    dSCH-FlowControlInformation
                                    DSCH-FlowControlInformation,
    diversityIndication
                            DiversityIndication-RL-AdditionRspTDD2 OPTIONAL,
    -- diversityIndication present, if CHOICE = nonCombining
    iE-Extensions
                            ProtocolExtensionContainer { {DSCHInformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
    . . .
DSCHInformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DiversityIndication-RL-AdditionRspTDD2 ::= SEQUENCE {
    bindingID
                            BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress
                                                    OPTIONAL,
    iE-Extensions
                            ProtocolExtensionContainer { {DiversityIndication-RL-AdditionRspTDD2-ExtIEs } } OPTIONAL,
    . . .
DiversityIndication-RL-AdditionRspTDD2-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
USCH-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{USCH-InformationListIEs-RL-AdditionRspTDD}}
USCH-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
```

```
{ ID id-USCH-InformationListIE-RL-AdditionRspTDD
                                                       CRITICALITY ignore TYPE USCH-InformationListIE-RL-AdditionRspTDD
                                                                                                                            PRESENCE mandatory }
USCH-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHs)) OF USCHInformationItem-RL-AdditionRspTDD
USCHInformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    uSCH-ID
                            USCH-ID,
    transportFormatManagement TransportFormatManagement,
    diversitvIndication
                           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 ::= {
    { ID id-RL-LCR-InformationResponse-RL-AdditionRspTDD
                                                           CRITICALITY ignore
                                                                                    EXTENSION RL-LCR-InformationResponse-RL-AdditionRspTDD
    PRESENCE mandatory },
```

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--Mandatory for 1.28Mcps TDD only
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}	
RL-LCR-InformationResponse-RL-Ad	dditionRspTDD ::= SEQUENCE {
rL-ID	RL-ID,
uRA-Information	URA-Information,
SAI	SAI,
gA-Cell	GA-Cell OPTIONAL,
gA-AccessPointPosition	GA-AccessPointPosition OPTIONAL,
ul-TimeSlot-ISCP-LCR-Info	UL-TimeSlot-ISCP-LCR-Info,
maxUL-SIR	UL-SIR,
minUL-SIR	UL-SIR,
pCCPCH-Power	PCCPCH-Power,
maximumAllowedULTxPower	MaximumAllowedULTxPower,
maximumDLTxPower	DL-Power,
minimumDLTxPower	DL-Power,
alphaValue	AlphaValue,
ul-PhysCH-SF-Variation	UL-PhysCH-SF-Variation,
synchronisationConfiguration	1 SynchronisationConfiguration,
secondary-LCR-CCPCH-Info-IDI	J Secondary-LCR-CCPCH-INIO-IDD OPTIONAL,
dl_CCTrCH_LCP_Information	DI-CCTTCH-LCR-INFORMATIONLIST-RI-AdditionEspidd OPTIONAL,
dCH-InformationResponse	DCH-InformationResponseList-EL-AdditionRenTDD OPTIONAL
dsch-LCR-InformationResponse	Per InformationRespondence RI-additionRepTD OFTIONAL,
usch-LCR-InformationResponse	e USCH-LCR-InformationResponse-RL-AdditionRspTDD OPTIONAL.
neighbouring-UMTS-CellInform	mation Neighbouring-UMTS-CellInformation OPTIONAL,
neighbouring-GSM-CellInforma	ation Neighbouring-GSM-CellInformation OPTIONAL,
iE-Extensions	ProtocolExtensionContainer { { RL-LCR-InformationResponseList-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
}	
RL-LCR-InformationResponseList-H	RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
····	
}	
III COTTAIL LOD InformationList DI	AdditionEgraph Enclosed IE Single Containon [[III COTTON LOD InformationListIEs DI AdditionEgraphe]]
OL-COITCH-LCR-IIIOFIIIACIOILISC-RI	-Additionspibb ··· Protoconte-single-container {{01-center-lee-intormationstites-kL-Additionspibb }}
IIICCTrCH-LCR-InformationListIF	S-PI-AdditionRenTDD RNSAD-DROTOCOL-IFS ::= {
{ ID id-IIICCTrCH-LCR-Inform	mationListIE_RL_AdditionEspTDD CETTCALLTY impore TYPE UL_CCTrCH_LCR_InformationListIE_RL_AdditionEspTDD PRESENCE
mandatory }	
}	
,	
UL-CCTrCH-LCR-InformationListIE	-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1maxNrOfCCTrCHsLCR)) OF UL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD
UL-CCTrCH-LCR-InformationItem-RI	L-AdditionRspTDD ::= SEQUENCE {
cCTrCH-ID	CCTrCH-ID,
ul-DPCH-LCR-Information	UL-DPCH-LCR-InformationList-RL-AdditionRspTDD OPTIONAL,
iE-Extensions	ProtocolExtensionContainer { {UL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL,
}	

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                                                                    3GPP TS 25.423 v4.3.0 (2001-12)
UL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { { UL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD } }
UL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD
                                                                CRITICALITY ignore TYPE UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD PRESENCE
mandatory }
UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
                                    RepetitionPeriod,
    repetitionPeriod
    repetitionLength
                                    RepetitionLength,
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
    uL-TimeslotLCR-Information
                                    UL-TimeslotLCR-Information,
    iE-Extensions
                                    ProtocolExtensionContainer { {UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs} } OPTIONAL.
    . . .
UL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCH-LCR-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DL-CCTrCH-LCR-InformationListIEs-RL-AdditionRspTDD}
DL-CCTrCH-LCR-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD CRITICALITY ignore TYPE DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD PRESENCE
mandatory }
DL-CCTrCH-LCR-InformationListIE-RL-AdditionRspTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHsLCR)) OF DL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD
DL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    cCTrCH-ID
                                CCTrCH-ID,
    dl-DPCH-LCR-Information
                                DL-DPCH-LCR-InformationList-RL-AdditionRspTDD
                                                                                     OPTIONAL,
                                ProtocolExtensionContainer { {DL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-CCTrCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
DL-DPCH-LCR-InformationList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container { {DL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD }
DL-DPCH-LCR-InformationListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD
                                                                CRITICALITY ignore TYPE DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD PRESENCE
mandatory }
```

}

```
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                                                                    3GPP TS 25.423 v4.3.0 (2001-12)
DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
                                    RepetitionPeriod,
    repetitionPeriod
                                    RepetitionLength,
    repetitionLength
    tDD-DPCHOffset
                                    TDD-DPCHOffset,
                                    DL-TimeslotLCR-Information,
    dL-TimeslotLCR-Information
    tSTD-Indicator
                                    TSTD-Indicator,
                                    ProtocolExtensionContainer { {DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DL-DPCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-InformationResponseList-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DCH-InformationResponseListIEs-RL-AdditionRspTDD}}
DCH-InformationResponseListIEs-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse CRITICALITY ignore
                                                           TYPE DCH-InformationResponse PRESENCE mandatory }
}
DSCH-LCR-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{DSCH-LCR-InformationList-RL-AdditionRspTDD}}
DSCH-LCR-InformationList-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-DSCH-LCR-InformationListIEs-RL-AdditionRspTDD
                                                                CRITICALITY ignore TYPE DSCH-LCR-InformationListIEs-RL-AdditionRspTDD PRESENCE
mandatory }
ι
DSCH-LCR-InformationListIEs-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfDSCHsLCR)) OF DSCH-LCR-InformationItem-RL-AdditionRspTDD
DSCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    dsch-ID
                           DSCH-ID,
    dSCH-FlowControlInformation
                                    DSCH-FlowControlInformation,
    bindingID
                            BindingID OPTIONAL,
    transportLayerAddress TransportLayerAddress OPTIONAL,
    transportFormatManagement TransportFormatManagement,
                            ProtocolExtensionContainer { {DSCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DSCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
USCH-LCR-InformationResponse-RL-AdditionRspTDD ::= ProtocolIE-Single-Container {{USCH-LCR-InformationList-RL-AdditionRspTDD}}
USCH-LCR-InformationList-RL-AdditionRspTDD RNSAP-PROTOCOL-IES ::= {
    { ID id-USCH-LCR-InformationListIEs-RL-AdditionRspTDD
                                                                CRITICALITY ignore TYPE USCH-LCR-InformationListIEs-RL-AdditionRspTDD PRESENCE
mandatory }
}
USCH-LCR-InformationListIEs-RL-AdditionRspTDD ::= SEQUENCE (SIZE(0..maxNoOfUSCHsLCR)) OF USCH-LCR-InformationItem-RL-AdditionRspTDD
```

```
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                                                                 3GPP TS 25.423 v4.3.0 (2001-12)
USCH-LCR-InformationItem-RL-AdditionRspTDD ::= SEQUENCE {
    usch-ID
                              USCH-ID,
    transportFormatManagement
                              TransportFormatManagement,
    diversityIndication
                              DiversityIndication-RL-AdditionRspTDD2
                                                                        OPTIONAL,
                              ProtocolExtensionContainer { {USCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
USCH-LCR-InformationItem-RL-AdditionRspTDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= ·
ļ
   _ _
-- RADIO LINK ADDITION FAILURE FDD
RadioLinkAdditionFailureFDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                            {{RadioLinkAdditionFailureFDD-IEs}},
                                  ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}}
   protocolExtensions
                                                                                                                      OPTIONAL,
    . . .
RadioLinkAdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-CauseLevel-RL-AdditionFailureFDD
                                                             CRITICALITY
                                                                                             TYPE CauseLevel-RL-AdditionFailureFDD
                                                                            ignore
    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 ::= SEOUENCE {
    cause
                                             Cause,
    iE-Extensions
                                             ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs } }
                                                                                                                               OPTIONAL,
    . . .
GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
}
RLSpecificCauseList-RL-AdditionFailureFDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                 UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD,
    successful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                 SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD OPTIONAL,
```

```
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                                                ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                          OPTIONAL,
RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container { { 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-Extles RNSAP-PROTOCOL-EXTENSION ::= ·
SuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (0..maxNrOfRLs-2)) OF Protocolle-Single-Container { {SuccessfulRL-
InformationResponse-RL-AdditionFailureFDD-IEs} }
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-SuccessfulRL-InformationResponse-RL-AdditionFailureFDD
                                                                         CRITICALITY ignore TYPE SuccessfulRL-InformationResponse-RL-AdditionFailureFDD
        PRESENCE mandatory }
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID
                                        RL-ID,
    rL-Set-ID
                                        RL-Set-ID,
    uRA-Information
                                        URA-Information
                                                             OPTIONAL,
    sAI
                                        SAI,
                                        GA-Cell
                                                    OPTIONAL,
    qA-Cell
    gA-AccessPointPosition
                                        GA-AccessPointPosition
                                                                     OPTIONAL,
    received-total-wide-band-power
                                        Received-total-wide-band-power,
    secondary-CCPCH-Info
                                        Secondary-CCPCH-Info
                                                                     OPTIONAL,
    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,
```

```
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    closedlooptimingadjustmentmode
                                        Closedlooptimingadjustmentmode OPTIONAL,
    maximumAllowedULTxPower
                                        MaximumAllowedULTxPower,
    maximumDLTxPower
                                        DL-Power,
    minimumDLTxPower
                                        DL-Power,
    neighbouring-UMTS-CellInformation
                                        Neighbouring-UMTS-CellInformation OPTIONAL,
    neighbouring-GSM-CellInformation
                                        Neighbouring-GSM-CellInformation OPTIONAL,
    primaryCPICH-Power
                                        PrimaryCPICH-Power,
    pC-Preamble
                                        PC-Preamble,
                                        SRB-Delay,
    sRB-Delay
    iE-Extensions
                                        ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs } OPTIONAL,
    . . .
SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-GA-CellAdditionalShapes
                                            CRITICALITY ignore EXTENSION
                                                                           GA-CellAdditionalShapes
                                                                                                        PRESENCE optional }
     ID id-HCS-Prio
                         CRITICALITY ignore EXTENSION HCS-Prio PRESENCE optional },
DL-CodeInformationList-RL-AdditionFailureFDD ::= ProtocolIE-Single-Container {{ DL-CodeInformationListIEs-RL-AdditionFailureFDD }}
DL-CodeInformationListIEs-RL-AdditionFailureFDD RNSAP-PROTOCOL-IES ::= {
    { ID id-FDD-DL-CodeInformation CRITICALITY ignore TYPE FDD-DL-CodeInformation
                                                                                        PRESENCE mandatory
DiversityIndication-RL-AdditionFailureFDD ::= CHOICE {
    combining
                                    Combining-RL-AdditionFailureFDD,
    nonCombining
                                    NonCombining-RL-AdditionFailureFDD
}
Combining-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID
                                RL-ID,
    iE-Extensions
                                ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    . . .
CombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-DCH-InformationResponse
                                            CRITICALITY ignore EXTENSION DCH-InformationResponse
                                                                                                        PRESENCE optional }
ļ
NonCombining-RL-AdditionFailureFDD ::= SEQUENCE {
    dCH-InformationResponse
                                DCH-InformationResponse,
                                                ProtocolExtensionContainer { { NonCombiningItem-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
NonCombiningItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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

} ...

9.3.4 Information Element Definitions

```
____
-- Information Element Definitions
_ _
RNSAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-IEs (2) }
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
IMPORTS
   maxCodeNumComp-1,
-- Unaffected parts are not included.
   id-Allowed-Rate-Information,
   id-AntennaColocationIndicator,
   id-CoverageIndicator,
   id-Guaranteed-Rate-Information,
   id-HCS-Prio,
   id-Load-Value,
   id-Load-Value-IncrDecrThres,
-- Unaffected parts are not included.
FROM RNSAP-Containers;
-- A
```

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

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

}

. . .

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::= INTEGER (0..8)

-- Unaffected parts are not included.

AlphaValue

-- Actual value = Alpha / 8

-- Unaffected parts are omitted.

-- C

-- Unaffected parts are not included.

CoverageIndicator ::= ENUMERATED {
 overlap,
 covers,
 containedIn,
 ...
}

-- Unaffected parts are omitted.

}

-- Unaffected parts are omitted.

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-- N

-- Unaffected parts are omitted.

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

Neighbouring-FDD-CellInformationItem :	:= SEQUENCE {	
c-ID	C-ID,	
uARFCNforNu	UARFCN,	
uARFCNforNd	UARFCN,	
frameOffset	FrameOffset OF	PTIONAL,
primaryScramblingCode	PrimaryScramblingCode,	,
primaryCPICH-Power	PrimaryCPICH-Power	OPTIONAL,
cellIndividualOffset	CellIndividualOffset	OPTIONAL,
txDiversityIndicator	TxDiversityIndicator,	
sTTD-SupportIndicator	STTD-SupportIndicator	OPTIONAL,
closedLoopModel-SupportIndicator	ClosedLoopModel-Suppor	rtIndicator OPTIONAL,
closedLoopMode2-SupportIndicator	ClosedLoopMode2-Suppor	rtIndicator OPTIONAL,
iE-Extensions	ProtocolExtensionConta	ainer { { Neighbouring-FDD-CellInformationItem-ExtIEs} } OPTIONAL,
}		

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

{ ID 1d-RestrictionStat	eIndicator	CRITICALITY ignore	E E	XTENSION RestrictionStateInd	icator PR	ESENCE optio	nal }}
{ ID id-DPC-Mode-Change	e-SupportIndicator CR	ITICALITY ignore	EXTENSION	DPC-Mode-Change-SupportIn	dicator	PRESENCE op	tional }
{ ID id-CoverageIndication	or CRITIC	ALITY ignore	EXTENSION	CoverageIndicator	PRESENCE	<pre>optional }</pre>	L
<pre>{ ID id-AntennaColocat;</pre>	onIndicator CRITIC	ALITY ignore	EXTENSION	AntennaColocationIndicator	PRESENCE	optional }	
{ ID id-HCS-Prio	CRITIC.	ALITY ignore	EXTENSION	HCS-Prio	PRESENCE	<pre>optional },</pre>	

. . .

-- Unaffected parts are omitted.

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

{ ID id-CoverageIndicator	CRITICALITY ignore	EXTENSION CoverageIndicator	PRESENCE optional }
{ ID id-AntennaColocationIndicator	CRITICALITY ignore	EXTENSION AntennaColocationIndicator	PRESENCE optional }
{ ID id-HCS-Prio	CRITICALITY ignore	EXTENSION HCS-Prio	PRESENCE optional },

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

Neighbouring-TDD-CellInformationItem ::= SEQUENCE { C-ID,

c-ID

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uARFCNforNt	UARFCN,	
frameOffset	FrameOffset	OPTIONAL,
cellParameterID	CellParameterID,	
syncCase	SyncCase,	
timeSlot	TimeSlot	OPTIONAL
This IE shall be present if	Sync Case = Case1	- ,
sCH-TimeSlot	SCH-TimeSlot	OPTIONAL
This IE shall be present if	Sync Case = Case2	- ,
block-STTD-Indicator	Block-STTD-Indicato	pr,
cellIndividualOffset	CellIndividualOffse	et OPTIONAL,
dPCHConstantValue	DPCHConstantValue	OPTIONAL,
pCCPCH-Power	PCCPCH-Power	OPTIONAL,
iE-Extensions	ProtocolExtensionCo	<pre>ontainer { { Neighbouring-TDD-CellInformationItem-ExtIEs} } OPTIONAL,</pre>

}

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

{ ID id-RestrictionStateIndicator	CRITICALITY ignore	EXTENSION RestrictionStateIndica	ator PRESENCE optional $ _{\tau}$
{ ID id-CoverageIndicator	CRITICALITY ignore	EXTENSION CoverageIndicator	PRESENCE optional }
{ ID id-AntennaColocationIndicator	CRITICALITY ignore	EXTENSION AntennaColocationIndicator	PRESENCE optional }
{ ID id-HCS-Prio	CRITICALITY ignore	EXTENSION HCS-Prio	PRESENCE optional },

-- Unaffected parts are omitted.

9.3.6 Constant Definitions

-- Constant definitions

-- Unaffected parts are omitted.

---- IEs

	DechagolIE ID : 4
id-Allowedgueutinglime	Protocolle-ID ··= 4
id Antomed Rate Information	Protocolle-ID ··= 42
id PindingTD	Protocolle-ID ··= 309
	Protocolle-ID ··= 5
	ProtocollE-ID ::= 6
Id-C-RNTI	ProtocollE-ID ::= 7
Id-CFN	ProtocollE-ID ::= 8
id-CN-CS-DomainIdentifier	ProtocollE-ID ::= 9
id-CN-PS-DomainIdentifier	ProtocollE-ID ::= 10
1d-Cause	ProtocollE-ID ::= 11
<u>id-CoverageIndicator</u>	ProtocolIE-ID ::= 310
id-CriticalityDiagnostics	ProtocolIE-ID ::= 20
id-D-RNTI	ProtocolIE-ID ::= 21
id-D-RNTI-ReleaseIndication	ProtocolIE-ID ::= 22
id-DCHs-to-Add-FDD	ProtocolIE-ID ::= 26
id-DCHs-to-Add-TDD	ProtocolIE-ID ::= 27
id-DCH-DeleteList-RL-ReconfPrepFDD	ProtocolIE-ID ::= 30
id-DCH-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 31
id-DCH-DeleteList-RL-ReconfRqstFDD	ProtocolIE-ID ::= 32
id-DCH-DeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 33
id-DCH-FDD-Information	ProtocolIE-ID ::= 34
id-DCH-TDD-Information	ProtocolIE-ID ::= 35
id-FDD-DCHs-to-Modify	ProtocolIE-ID ::= 39
id-TDD-DCHs-to-Modify	ProtocolIE-ID ::= 40
id-DCH-InformationResponse	ProtocolIE-ID ::= 43
id-DCH-Rate-InformationItem-RL-CongestInd	ProtocolIE-ID ::= 38
id-DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD	ProtocolIE-ID ::= 44
id-DL-CCTrCH-InformationListIE-RL-ReconfReadyTDD	ProtocolIE-ID ::= 45
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 46
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	ProtocolIE-ID ::= 47
id-DL-CCTrCH-InformationListIE-PhyChReconfRqstTDD	ProtocolIE-ID ::= 48
id-DL-CCTrCH-InformationListIE-RL-AdditionRspTDD	ProtocolIE-ID ::= 49
id-DL-CCTrCH-InformationListIE-RL-SetupRspTDD	ProtocolIE-ID ::= 50
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 51
id-DL-CCTrCH-InformationDeleteList-RL-ReconfgstTDD	ProtocolIE-ID ::= 52
id-DL-CCTrCH-InformationList-RL-SetupRgstTDD	ProtocolIE-ID ::= 53
id-FDD-DL-CodeInformation	ProtocolIE-ID ::= 54
id-DL-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 59
id-DL-DPCH-Information-RL-SetupRgstFDD	ProtocolIE-ID ::= 60
id-DL-DPCH-Information-RL-ReconfRastFDD	ProtocolIE-ID ::= 61
id-DL-DPCH-InformationItem-PhyChReconfRastTDD	$\frac{1}{2} = 62$
id-DL-DPCH-InformationItem-RL-AdditionRspTDD	ProtocolIE-ID ::= 63
id-DL-DPCH-InformationItem-RL-SetupRspTDD	ProtocollE-ID ::= 64
id-DLReferencePower	ProtocolIE-ID ::= 67
id-DLReferencePowerList-DL-PC-Rast	ProtocolIE-ID := 68
id-DL-ReferencePowerInformation-DL-PC-Rast	$\frac{11000000111}{ProtocollE-ID} := 69$
id-DPC-Mode	$\frac{11000000111}{ProtocollE-ID} := 12$
id-DRXCvcleLengthCoefficient	ProtocolIE-ID ··- 70
TA DIACYCLEDENGCHCOELITCIENC	FICCOCOTIE-ID ··- /0

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id-DedicatedMeasurementObjectType-	DM-Rprt	ProtocolIE-ID ::= 71
id-DedicatedMeasurementObjectType-	DM-Rqst	ProtocolIE-ID ::= 72
id-DedicatedMeasurementObjectType-	DM-Rsp	ProtocolIE-ID ::= 73
id-DedicatedMeasurementType		ProtocolIE-ID ::= 74
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspFDD		ProtocolIE-ID ::= 82
id-FACH-InfoForUESelectedS-CCPCH-CTCH-ResourceRspTDD		ProtocolIE-ID ::= 83
id-Guaranteed-Rate-Information		ProtocolIE-ID ::= 41
id-IMSI		ProtocolIE-ID ::= 84
id-HCS-Prio		ProtocolIE-ID ::= 311
id-L3-Information		ProtocolIE-ID ::= 85
id-AdjustmentPeriod		ProtocolIE-ID ::= 90

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CHANGE REQUEST					
^ж 25.	<mark>.433</mark> CR <mark>425 [#] 1</mark>	ev <mark>4</mark> ^ж	Current versior	^{n:} 4.3.0 [#]	
For HELP on using t	his form, see bottom of this page	or look at the	pop-up text ov	ver the X symbols.	
Proposed change affect	ts: ¥ (U)SIM ME/UE	Radio Acc	cess Network	Core Network	
Title: % DL	Power Capability as a shared res	source betwee	en Cells		
Source: # R-W	VG3				
Work item code: ೫ TEI	-Rel5		<i>Date:</i>	February 2002	
Category: # B			Release: ೫ <mark>-</mark>	REL-5	
Use <u>c</u> D Detai be for	one of the following categories: F (essential correction) A (corresponds to a correction in an B (Addition of feature), C (Functional modification of feature D (Editorial modification) led explanations of the above category und in 3GPP TR 21.900.	earlier release) e) ories can	Use <u>one</u> of the 2 (G R96 (R R97 (R R98 (R R99 (R REL-4 (R REL-5 (R	e following releases: SSM Phase 2) Release 1996) Release 1997) Release 1998) Release 1999) Release 4) Release 5)	
Reason for change: #	The actual model of the Node E	does not allo	w to manage th	he DL Power	
Summary of change: # R4: Corrections are made on the latest version of the specification. R3: Complete rephrasing of the procedure text. Corrected ASN.1. R2: Text has been added to further clarify what the RNC should do if it rec Power Local Cell Group Information Addition of a Power Local Cell Group in the AUDIT RESPONSE and the RESOURCE STATUS INDICATION messages. Compatibility Analysis: This added functionality does not have any impact on the functions existin Rel-4. The ASN.1 is backward compatible and procedure text has been added for the case of an RNC not supporting this new functionality (as this is the for an RNC compliant to Rel-4).			ication. SN.1. ould do if it receives NSE and the nctions existing in xt has been added (as this is the case		
Consequences if % not approved:	If this CR is not approved, then managed as a resource shared	the Power res between a gr	source in the No oup of Local Co	ode B cannot be ells.	
Clauses affected: # Other specs # affected:	8.2.7.2, 8.2.12.4, 8.2.13.4, 8.2. Other core specifications Test specifications O&M Specifications	15.2, 9.1.17, 9 ¥	.1.32, 9.2.1.39	, 9.2.1.X, 9.3.3, 9.3.6	

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G_Specs/CRs.htm</u>. Below is a brief summary:

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

8.2.7 Audit

8.2.7.1 General

This procedure is executed by the CRNC to perform an audit of the configuration and status of the logical resources in the Node B. A complete audit of a Node B is performed by one or more Audit procedures, together performing an audit sequence. The audit may cause the CRNC to re-sync the Node B to the status of logical resources known by the CRNC, that the Node B can support.

8.2.7.2 Successful Operation



Figure 10: Audit procedure, Successful Operation

The procedure is initiated with an AUDIT REQUEST message sent from the CRNC to the Node B.

If the *Start of Audit Sequence* IE in the AUDIT REQUEST message is set to "start of audit sequence" a new audit sequence is started, any ongoing audit sequence shall be aborted and the Node B shall provide (part of the) audit information. If the *Start of Audit Sequence* IE is set to "not start of audit sequence", the Node B shall provide (part of) the remaining audit information not already provided during this audit sequence.

If the information provided in the AUDIT RESPONSE message completes the audit sequence, the Node B shall set the *End Of AuditSequence Indicator* IE in the AUDIT RESPONSE message to "End of Audit Sequence". If not all audit information has been provided yet as part of the ongoing audit sequence, the Node B shall set the *End Of AuditSequence Indicator* IE in the AUDIT RESPONSE message to "Not End of Audit Sequence".

Information Provided In One Audit Sequence.

The Node B shall include one *Local Cell Information* IE for each local cell present in the Node B. The Node B shall include the *Maximum DL Power Capability* IE and the *Minimum DL Power Capability* IE when any of those values are known by the Node B.

[TDD - The Node B shall include the *Reference Clock availability* IE to indicate the availability of a Reference clock connected to the Local cell.]

If Node B internal resources are pooled for a group of cells, the Node B shall include one *Local Cell Group Information* IE containing Node B internal resource capacity and consumption laws per group of cells. If the *UL Capacity Credit* IE is not present, then the internal resource capabilities of the Node B are modelled as shared resources between Uplink and Downlink.

If the Node B internal power resources are pooled for a group of Local Cells, the Node B shall include one *Power Local* <u>Cell Group Information</u> IE containing the Maximum DL Power Capability for each Power Local Cell Group for which this value is known by the Node B. In this case, the Node B shall also include the *Maximum DL Power Capability* IE in the *Local Cell Information* IE for all the Local Cells belonging to a Power Local Cell Group reported in the *Power Local Cell Group Information* IE. Furthermore, the sum of the Maximum DL Power Capability of all the Local Cells belonging to the same Power Local Cell Group shall not exceed the Maximum DL Power Capability of the concerned Power Local Cell Group.

The Node B shall include for each local cell present in the Node B the Node B internal resource capability and consumption laws within the *Local Cell Information* IE. If the *UL Capacity Credit* IE is not present, then the internal resource capabilities of the local cell are modelled as shared resources between Uplink and Downlink. If the Local Cell

utilises Node B internal resource capabilities that are pooled for several Local Cell(s), the *Local Cell Group ID* IE shall contain the identity of the used Local Cell Group. If the Local Cell utilises Node B internal power resources that are pooled for several Local Cells, the *Power Local Cell Group ID* IE shall contain the identity of the concerned Power Local Cell Group.

The Node B shall include one *Cell Information* IE for each cell in the Node B and information about all common transport channels and all common physical channels for each cell. If a *Configuration Generation ID* IE for a cell can not be trusted, the Node B shall set this *Configuration Generation ID* IE = '0'.

The Node B shall also include one *Communication Control Port Information* IE for each communication control port in the Node B.

8.2.7.3 Unsuccessful Operation



Figure 10A: Audit procedure, Unsuccessful Operation

If the Node B can not perform an audit of the configuration and status of the logical resources, it shall send a AUDIT FAILURE with the *Cause* IE set to an appropriate value.

8.2.7.4 Abnormal Conditions

If the Node B receives the AUDIT REQUEST message with the *Start of Audit Sequence* IE set to "not start of audit sequence" and there is no ongoing audit sequence, the Node B shall send the AUDIT FAILURE message with the appropriate cause value.

8.2.12 Cell Setup

8.2.12.1 General

This procedure is used to set up a cell in Node B. The CRNC takes the cell, identified via the *C-ID* IE, into service and uses the resources in Node B identified via the *Local Cell ID* IE.

8.2.12.2 Successful Operation



Figure 11: Cell Setup procedure, Successful Operation

The procedure is initiated with a CELL SETUP REQUEST message sent from CRNC to Node B. Upon Reception, the Node B shall reserve the necessary resources and configure the new cell according to the parameters given in the message.

[FDD - If the CELL SETUP REQUEST message includes one or more *Secondary CPICH Information* IE the Node B shall configure and activate the Secondary CPICH(s) in the cell according to received configuration data.]

The *Maximum Transmission Power* IE value shall be stored in the Node B and at any instance of time the total maximum output power in the cell shall not be above this value.

[FDD - If the *Closed Loop Timing Adjustment Mode* IE is included in the CELL SETUP REQUEST message, the value shall be stored in the Node B and applied when closed loop Feed-Back mode diversity is used on DPCH.]

[TDD - If the *Reference SFN offset* IE is included in the CELL SETUP REQUEST message, Node B where a reference clock is connected shall consider the SFN derived from the synchronisation port and the reference offset for reference time setting. All other Node B shall ignore the *Reference SFN offset* IE if included.]

If the *IPDL Parameter Information* IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL shall be stored in the Node B and applied according to the *IPDL Indicator* IE value.

When the cell is successfully configured the Node B shall store the *Configuration Generation ID* IE value and send a CELL SETUP RESPONSE message as a response.

[FDD - When the cell is successfully configured CPICH(s), Primary SCH, Secondary SCH, Primary CCPCH and BCH exist.][3.84Mcps TDD - When the cell is successfully configured SCH, Primary CCPCH and BCH exist and the switching-points for the 3.84Mcps TDD frame structure are defined.] [1.28Mcps TDD - When the cell is successfully configured, DwPCH, Primary CCPCH and BCH exist and the switching-points for the 1.28Mcps TDD frame structure are defined.] The cell and the channels shall be set to state Enabled [6].

8.2.12.3 Unsuccessful Operation



Figure 12: Cell Setup procedure: Unsuccessful Operation

If the Node B cannot set up the cell according to the information given in CELL SETUP REQUEST message the CELL SETUP FAILURE message shall be sent to CRNC.

In this case the cell is Not Existing in Node B. The Configuration Generation ID shall not be changed in Node B.

The Cause IE shall be set to an appropriate value.

Typical cause values are as follows:

Radio Network Layer Cause

- S-CPICH not supported
- Requested Tx Diversity Mode not supported
- Power level not supported
- Node B Resources unavailable
- IPDL not supported

Miscellaneous Cause

- O&M Intervention
- Control processing overload
- HW failure

8.2.12.4 Abnormal Conditions

If the state of the cell already is Enabled or Disabled [6] when the CELL SETUP REQUEST message is received in Node B, it shall reject the configuration of the cell and all channels in the CELL SETUP REQUEST message with the *Cause* IE set to "Message not compatible with receiver state".

If the Local Cell on which the cell is mapped does not belong to a Power Local Cell Group and the requested maximum transmission power indicated by the *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Local Cell, the Node B shall consider the procedure as having failed and send a CELL SETUP FAILURE message to the CRNC.

If the Local Cell on which the cell is mapped belongs to a Power Local Cell Group and the requested maximum transmission power indicated by *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Power Local Cell Group, the Node B shall consider the procedure as having failed and send a CELL SETUP FAILURE message to the CRNC.

8.2.13 Cell Reconfiguration

8.2.13.1 General

This procedure is used to reconfigure a cell in Node B.

8.2.13.2 Successful Operation



Figure 13: Cell Reconfiguration procedure, Successful Operation

The procedure is initiated with a CELL RECONFIGURATION REQUEST message sent from CRNC to Node B. Upon Reception, the Node B shall reconfigure the cell according to the parameters given in the message.

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary SCH Information* IE the Node B shall reconfigure Primary SCH power in the cell according to *Primary SCH Power* IE value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Secondary SCH Information* IE the Node B shall reconfigure Secondary SCH power in the cell according to the *Secondary SCH Power* IE value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CPICH Information* IE the Node B shall reconfigure Primary CPICH power in the cell according to the *Primary CPICH Power* IE value. Node B shall adjust all the transmitted power levels relative to the Primary CPICH power according to the new value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes one or more *Secondary CPICH Information* IE the Node B shall reconfigure the power for each Secondary CPICH in the cell according to their *Secondary CPICH Power* IE value.]

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *SCH Information* IE the Node B shall reconfigure SCH power in the cell according to the *SCH Power* IE value.]

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *Timing Advance Applied* IE the Node B shall apply the necessary functions for Timing Advance in that cell including reporting of the Rx Timing Deviation measurement, according to the *Timing Advance Applied* IE value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CCPCH Information* IE the Node B shall reconfigure BCH power in the cell according to the *BCH Power* IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CCPCH Information* IE the Node B shall reconfigure P-CCPCH power in the cell according to the *P-CCPCH Power* IE value. Node B shall adjust all the transmitted power levels relative to the Primary CPPCH power according to the new value.]

If the CELL RECONFIGURATION REQUEST message includes the *Maximum Transmission Power* IE the value shall be stored in the Node B and at any instance of time the total maximum output power in the cell shall not be above this value.

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *Timeslot Information* IE the Node B shall reconfigure switching-point structure in the cell according to the *Timeslot* IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes any of the *Constant Value* IEs, the Node B shall use these values when generating the appropriate SIB.]

If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with the *IPDL Indicator* IE having the value 'active' the Node B shall apply the IPDL in that cell according the latest downloaded parameters defined by the *IPDL FDD Parameters* IE / *IPDL TDD Parameters* IE.

If the CELL RECONFIGURATION REQUEST message includes *IPDL Parameter Information* IE with *the IPDL Indicator* IE having the value 'inactive' the Node B shall deactivate the ongoing IPDL.

When the cell is successfully reconfigured the Node B shall store the new *Configuration Generation ID* IE value and send a CELL RECONFIGURATION RESPONSE message as a response.

If the CELL RECONFIGURATION REQUEST message includes the *Synchronisation Configuration* IE the Node B shall reconfigure the indicated parameters in the cell according to the IE value. When the parameters in the *Synchronisation Configuration* IE affect the thresholds applied to a RL set, the Node B shall immediately apply the new thresholds. When applying the new thresholds the Node B shall not change the state or value of any of the timers and counters for which the new thresholds apply.

8.2.13.3 Unsuccessful Operation



Figure 14: Cell Reconfiguration procedure: Unsuccessful Operation

If the Node B cannot reconfigure the cell according to the information given in CELL RECONFIGURATION REQUEST message the CELL RECONFIGURATION FAILURE message shall be sent to CRNC.

In this case, the Node B shall keep the old configuration of the cell and the Configuration Generation ID shall not be changed in Node B.

The Cause IE shall be set to an appropriate value.

Typical cause values are as follows:

Radio Network Layer Cause

- Power level not supported
- Node B Resources unavailable
- IPDL not supported

Miscellaneous Cause

- O&M Intervention
- Control processing overload
- HW failure

8.2.13.4 Abnormal Conditions

If the *IPDL Indicator* IE having the value 'active' is included in the CELL RECONFIGURATION REQUEST message and there is active IPDL ongoing in the Node B, the Node B shall response with CELL RECONFIGURATION FAILURE- message with the cause value 'IPDL already activated'.]

If the *IPDL Indicator* IE having the value 'active' is included in the CELL RECONFIGURATION REQUEST message and there is no IPDL stored to Node B defining the IPDL, the Node B shall response with CELL RECONFIGURATION FAILURE- message with the cause value 'IPDL parameters not available'.]

If the Local Cell on which the cell is mapped does not belong to of a Power Local Cell Group and the requested maximum transmission power indicated by the *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Local Cell, the Node B shall consider the procedure as having failed and send a CELL RECONFIGURATION FAILURE message to the CRNC.

If the Local Cell on which the cell is mapped belongs to a Power Local Cell Group and the requested maximum transmission power indicated by *Maximum Transmission Power* IE exceeds the Maximum DL Power Capability of the Power Local Cell Group, the Node B shall consider the procedure as having failed and send a CELL RECONFIGURATION FAILURE message to the CRNC.

8.2.15 Resource Status Indication

8.2.15.1 General

This procedure is used in the following cases:

- 1. When a Local Cell becomes Existing at the Node B.
- 2. When a Local Cell is to be deleted in Node B, i.e. become Not Existing.
- 3. When the capabilities of the Local Cell change at the Node B.
- 4. When a cell has changed its capability and/or its resource operational state at Node B.
- 5. When common physical channels and/or common transport channels have changed their capabilities at a Node B.
- 6. When a communication control port changed its resource operational state at the Node B.
- 7. When a Local Cell Group has changed its resource capability at the Node B.

Each of the above cases shall trigger a Resource Status Indication procedure and the RESOURCE STATUS INDICATION message shall contain the logical resources affected for that case and the cause value when applicable.

8.2.15.2 Successful Operation



Figure 21: Resource Status Indication procedure, Successful Operation

The procedure is initiated with a RESOURCE STATUS INDICATION message sent from the Node B to CRNC.

Local Cell Becomes Existing:

When a Local Cell becomes Existing at the Node B, the Node B shall make it available to the CRNC by sending a RESOURCE STATUS INDICATION message with the *Indication Type* IE set equal to "No Failure", the *Local Cell ID* IE and the *Add/Delete Indicator* IE set equal to 'Add'.

When the capacity credits and consumption laws are shared between several Local Cells, the Node B includes the *Local Cell Group ID* IE for the Local Cell. If the *Local Cell Group Information* IE is not already reported in a previous RESOURCE STATUS INDICATION message, the Node B shall include the capacity credits and the consumption laws in the *Local Cell Group Information* IE.

If the *Local Cell* IE contains both the *DL or Global Capacity Credit* IE and the *UL Capacity Credit* IE then the internal resource capabilities of the Local Cell are modelled independently in the Uplink and Downlink direction. If the *UL Capacity Credit* IE is not present, then the internal resource capabilities of the Local Cell are modelled as shared resources between Uplink and Downlink. If the *Local Cell Group Information* IE contains both the *DL or Global Capacity Credit* IE and the *UL Capacity Credit* IE then the internal resource capabilities of the Local Cell Group are modelled independently in the Uplink and Downlink direction. If the *UL Capacity Credit* IE is not present, then the internal resource capabilities of the Local Cell Group are modelled independently in the Uplink and Downlink direction. If the *UL Capacity Credit* IE is not present, then the internal resource capabilities of the Local Cell Group are modelled as shared resources between Uplink and Downlink direction. If the *UL Capacity Credit* IE is not present, then the internal resource capabilities of the Local Cell Group are modelled as shared resources between Uplink and Downlink direction. If the *UL Capacity Credit* IE is not present, then the internal resource capabilities of the Local Cell Group are modelled as shared resources between Uplink and Downlink.

[TDD - The Node B shall include the *Reference Clock availability* IE within the *Local Cell* IE to indicate the availability of a Reference clock connected to the Local Cell, when a Local Cell is made available to the CRNC.]

If the Node B internal power resources are pooled for a group of Local Cells, the Node B shall include the *Power Local* <u>Cell Group ID IE</u> for the Local Cell. If the *Power Local Cell Group Information* IE has not already been reported in a previous RESOURCE STATUS INDICATION message, the Node B shall include this IE for the concerned Power Local Cell Group in this message. Furthermore, the sum of the Maximum DL Power Capability of all the Local Cells belonging to the same Power Local Cell Group shall not exceed the Maximum DL Power Capability of the concerned Power Local Cell Group.

Local Cell Deletion:

When a Local Cell is to be deleted in Node B, i.e. become Not Existing, the Node B shall withdraw the Local Cell from the CRNC by sending a RESOURCE STATUS INDICATION message with the *Indication Type* IE set equal to "No Failure", the *Local Cell ID* IE and the *Add/Delete Indicator* IE set equal to 'Delete'. The Node B shall not withdraw a previously configured cell at the Node B that the CRNC had configured using the Cell Setup procedure, until the CRNC has deleted that cell at the Node B using the Cell Delete procedure.

Capability Change of a Local Cell:

When the capabilities of a Local Cell change at the Node B, the Node B shall report the new capability by sending a RESOURCE STATUS INDICATION message with the *Indication Type* IE set equal to "Service Impacting" and the Local Cell ID. The Node B shall include the *Minimum DL Power Capability* IE when it is known by the Node B. If the DL power capability has changed, the new capability shall be indicated in the *DL Power Capability* IE. If the DL capability for supporting the minimum spreading factor has changed, the new capability shall be indicated in the *Minimum Spreading Factor* IE. [TDD - If the availability of the Reference clock connected to a Local Cell has changed, the new availability condition shall be indicated in the *Reference Clock availability* IE.] The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value. If the internal resource capabilities of the Local Cell are affected, it shall be reported in the following way: If the internal resource capabilities of the Local Cell are modelled as shared resources between Uplink and Downlink, the new capacity shall be reported in the *DL or Global Capacity Credit* IE and the *UL Capacity Credit* IE shall be present in the RESOURCE STATUS INDICATION. If the maximum DL power capability of the Local Cell is affected, this shall be reported using the *Maximum DL Power Capability* IE.

Capability Change of a Cell:

When the capabilities and/or resource operational state of a cell changes at the Node B, the Node B shall report the new capability and/or resource operational state by sending a RESOURCE STATUS INDICATION message with the *Indication Type* IE set equal to "Service Impacting", the *C-ID* IE, the *Resource Operational State* IE and the *Availability Status* IE. The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

Capability Change of a Common Physical Channel and/or Common Transport Channel:

The Node B shall not delete any common or dedicated channels, due to the cell being "Disabled". For all affected common and dedicated channels, the Node B shall report the impact to the CRNC with the relevant procedures.

When the capabilities and/or resource operational state of common physical channels and/or common transport channels have changed, the Node B shall report the new capability and/or resource operational state by sending a RESOURCE STATUS INDICATION message with the *Indication Type* IE set equal to "Service Impacting", the *Resource Operational State* IE and the *Availability Status* IE set to appropriate values for the affected channel(s). The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

When a power value for a common physical channel and/or a common transport channel becomes beyond the supported power value range due to a change in capability in Node Bs, it shall be reported to the CRNC in the RESOURCE STATUS INDICATION message, with the *Resource Operational State* IE set to "Enabled", the *Availability Status* IE set to "Degraded" and the *Cause* IE set to "Power level not supported". Affected channels shall use the nearest power value that is supported.

Capability Change of a Communication Control Port:

When the resource operational state of a communication control port has changed, the Node B shall report the new resource operational state by sending a RESOURCE STATUS INDICATION message with the *Indication Type* IE set equal to "Service Impacting" and the *Communication Control Port ID* IE. The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to the appropriate value.

Capability Change of a Local Cell Group:

When the resource capabilities of a Local Cell Group change at the Node B, the Node B shall report the new capability by sending a RESOURCE STATUS INDICATION message with the *Indication Type* IE set equal to "Service Impacting" and the *Local Cell Group Information* IE reporting the change. The *Cause* IE in the RESOURCE STATUS

INDICATION message shall be set to an appropriate value. If the RESOURCE STATUS INDICATION message contains both the *DL or Global Capacity Credit* IEand the *UL Capacity Credit* IEthen the internal resource capabilities of the Node B are modelled independently in the Uplink and Downlink direction. If the *UL Capacity Credit* IE is not present, then the internal resource capabilities of the Node B are modelled as shared resources between Uplink and Downlink.

Capability Change of a Power Local Cell Group:

When the power capability of a Power Local Cell Group changes at the Node B, the Node B shall report the new capability by sending a RESOURCE STATUS INDICATION message with the *Indication Type* IE set equal to "Service Impacting" and the *Power Local Cell Group Information* IE reporting the change. The *Cause* IE in the RESOURCE STATUS INDICATION message shall be set to an appropriate value. In this case, the Node B shall also include the *Maximum DL Power Capability* IE in the *Local Cell Information* IE for all the Local Cells belonging to the concerned Power Local Cell Group. Furthermore, the sum of the Maximum DL Power Capability of all the Local Cells belonging to the same Power Local Cell Group shall not exceed the Maximum DL Power Capability of the concerned Power Local Cell Group.

General:

When the RESOURCE STATUS INDICATION is used to report an error, only one cause value for all reported objects can be sent in one message. When the RESOURCE STATUS INDICATION is used to clear errors, only all errors for one object can be cleared per message. It is not possible to clear one out of several errors for one object.

8.2.15.3 Abnormal Conditions

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9.1.17 AUDIT RESPONSE

IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
			and	description		Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		92146		YES	reject
Transaction ID	M		9.2.1.62			10,000
End Of Audit Sequence	М		9.2.1.29A		YES	ignore
Indicator						
Cell Information		<i>0</i>			EACH	ignore
>C-ID	М	Nouce >	9.2.1.9		_	
>Configuration	M		9.2.1.16		_	
Generation ID						
State	М		9.2.1.52		—	
>Availability Status	М		9.2.1.2		_	
>Local Cell ID	М		9.2.1.38	The local cell	_	
				that the cell		
				is configured		
Drimony SCH				on		
Information	0		Common		YES	ignore
			Channel			
			Status			
			Information			
			9.2.1.13A			
>Secondary SCH	0		Common		YES	ignore
mormation			Channel			
			Status			
			Information			
>Primary CPICH	0		9.2.1.13A		VES	ignore
Information	U		Physical		TLO	ignore
			Channel			
			Status			
			Information			
			9.2.1.13A			
Information		0 <maxsc< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxsc<>			EACH	ignore
>>Secondary CPICH	M	FICHCell>	Common			
Individual Information	101		Physical			
			Channel			
			Status			
			Information			
			9.2.1.13A			
Information	0		Physical		YES	ignore
internation			Channel			
			Status			
			9.2.1.13A			
>BCH Information	0		Common		YES	ignore
			Transport			
			Channel			
			Status			
			Information			
1	1	i -	J.Z.I.IJA	1		i i

>Secondary CCPCH Information		0 <maxsc CPCHCell ></maxsc 		EACH	ignore
>>Secondary CCPCH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A	_	
>PCH Information	0		Common Transport Channel Status Information 9.2.1.14B	YES	ignore
>PICH Information	0		Common Physical Channel Status Information 9.2.1.13A	YES	ignore
>FACH Information		0 <maxfa< td=""><td></td><td>EACH</td><td>ignore</td></maxfa<>		EACH	ignore
>>FACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B	-	
>PRACH Information		0 <maxpr< td=""><td></td><td>EACH</td><td>ignore</td></maxpr<>		EACH	ignore
>>PRACH Individual Information	M	ACHCEII>	Common Physical Channel Status Information 9.2.1.13A	-	
>RACH Information		0 <maxra CHCell></maxra 		EACH	ignore
>>RACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B	-	
>AICH Information		0 <maxpr< td=""><td></td><td>EACH</td><td>ignore</td></maxpr<>		EACH	ignore
>>AICH Individual Information	M	AUHUEII>	Common Physical Channel Status Information 9.2.1.13A	-	
>PCPCH Information		0 <maxpc PCHCell></maxpc 		EACH	ignore
>>PCPCH Individual Information	M		Common Physical Channel Status Information	_	

			9.2.1.13A			
>CPCH Information		0 <maxcp CHCell></maxcp 			EACH	ignore
>>CPCH Individual Information	Μ		Common Transport Channel Status Information 9.2.1.14B		_	
>AP-AICH Information		0 <maxcp< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxcp<>			EACH	ignore
>>AP-AICH Individual Information	М	CHCell>	Common Physical Channel Status Information 9.2.1.13A		-	
>CD/CA-ICH Information		0 <maxcp CHCell></maxcp 			EACH	ignore
>>CD/CA-ICH Individual Information	Μ		Common Physical Channel Status Information 9.2.1.13A		_	
>SCH Information	0		Common Physical Channel Status Information 9.2.1.13A	TDD Sync Channel	YES	ignore
>FPACH Information		0 <maxfp ACHCell></maxfp 		For 1.28Mcps TDD only	EACH	ignore
>>FPACH Individual Information	Μ		Common Physical Channel Status Information 9.2.1.13A		-	
>DwPCH Information	0		Common Physical Channel Status Information 9.2.1.13A	For 1.28Mcps TDD only	YES	ignore
Communication Control Port Information		0 <maxccpi nNodeB></maxccpi 			EACH	ignore
 >Communication Control Port ID >Resource Operational State 	M M		9.2.1.15 9.2.1.52			
>Availability Status	М		9.2.1.2		_	
Local Cell Information		0 <maxlocal CellinNode B></maxlocal 			EACH	ignore
>Local Cell ID	M	1	9.2.1.38		_	

>DL or Global Capacity Credit	М		9.2.1.20B		_	
>UL Capacity Credit	0		9.2.1.65A		_	
 Common Channels Capacity Consumption Law 	М		9.2.1.9A		_	
>Dedicated Channels Capacity Consumption Law	М		9.2.1.20A		-	
>Maximum DL Power Capability	0		9.2.1.39		-	
>Minimum Spreading Factor	0		9.2.1.47		_	
>Minimum DL Power Capability	0		9.2.1.46A		_	
>Local Cell Group ID	0		9.2.1.37A		—	
>Reference Clock availability	0		9.2.3.14A	TDD only	YES	ignore
>Power Local Cell Group ID	<u>0</u>		<u>9.2.1.X</u>		<u>YES</u>	<u>ignore</u>
Local Cell Group Information		0 <maxlocal CellinNode B></maxlocal 			EACH	ignore
>Local Cell Group ID	Μ		9.2.1.37A		_	
>DL or Global Capacity Credit	М		9.2.1.20B		-	
>UL Capacity Credit	0		9.2.1.65A		—	
>Common Channels Capacity Consumption Law	Μ		9.2.1.9A		-	
>Dedicated Channels Capacity Consumption Law	Μ		9.2.1.20A		-	
Power Local Cell Group Information		<u>0</u> <u><maxlocal< u=""> <u>CellinNode</u> <u>B></u></maxlocal<></u>			<u>EACH</u>	<u>ignore</u>
>Power Local Cell Group ID	M		<u>9.2.1.X</u>		=	
>Maximum DL Power Capability	M		<u>9.2.1.39</u>		=	
Criticality Diagnostics	0		9.2.1.17		YES	ianore

Range bound	Explanation
MaxCellinNodeB	Maximum number of Cell that can be configured in
	Node B
MaxCCPinNodeB	Maximum number of communication control ports that
	can exist in the Node B
MaxCPCHCell	Maximum number of CPCHes that can be defined in a
	Cell
MaxLocalCellinNodeB	Maximum number of Local Cells that can exist in the
	Node B
MaxPCPCHCell	Maximum number of PCPCHes that can be defined in
	a Cell
MaxSCPICHCell	Maximum number of Secondary CPICH that can be
	defined in a Cell.
MaxSCCPCHCell	Maximum number of Secondary CCPCH that can be
	defined in a Cell.
MaxFACHCell	Maximum number of FACHes that can be defined in a
	Cell
MaxPRACHCell	Maximum number of PRACHes that can be defined in
	a Cell
MaxRACHCell	Maximum number of RACHes that can be defined in a
	Cell
MaxFPACHCell	Maximum number of FPACHes that can be defined in
	a Cell

9.1.32 RESOURCE STATUS INDICATION

IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
			and	description		Criticality
Magazza Diserininator	M		9 2 1 45			
Message Discriminator			9.2.1.49			
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		-	
Indication Type	M		9.2.1.36		YES	ignore
CHOICE Indication Type	M				YES	ignore
>No Failure					-	
>>Local Cell		1 <max< td=""><td></td><td></td><td>EACH</td><td>ignore</td></max<>			EACH	ignore
Information		NodeB >				
>>>Local Cell ID	М		9.2.1.38		_	
>>>Add/Delete	М		9.2.1.1		_	
Indicator						
>>>DL or Global	C-add		9.2.1.20B		_	
Capacity Credit						
>>>UL Capacity Credit	0		9.2.1.65A		_	
>>>Common Channels	C-add		9.2.1.9A		_	
Capacity Consumption						
Law						
>>>Dedicated	C-add		9.2.1.20A		-	
Channels Capacity						
Consumption Law						
>>>Maximum DL	C-add		9.2.1.39		-	
Power Capability						
>>>Minimum	C-add		9.2.1.47		—	
Spreading Factor						
>>>Minimum DL Power	C-add		9.2.1.46A		-	
Capability						
>>>Reference Clock	C-add		9.2.3.14A	TDD only	YES	ignore
availability	_					
>>>Local Cell Group ID	0		9.2.1.37A		_	
>>Power Local Cell	<u>0</u>		<u>9.2.1.X</u>		<u>YES</u>	ignore
<u>Group ID</u>					-	
>>Local Cell Group		0			EACH	ignore
Information		CellinNode				
		B>				
>>>Local Cell Group	М		9.2.1.37A		-	
ID						
>>>DL or Global	М		9.2.1.20B		_	
Capacity Credit						
>>>UL Capacity Credit	0		9.2.1.65A		_	
>>>Common Channels	М		9.2.1.9A		—	
Capacity Consumption						
Law						
>>>Dedicated	Μ		9.2.1.20A		—	
Channels Capacity						
Consumption Law					E 4 0' '	
>>Power Local Cell		<u>U</u>			EACH	ignore
Group Information		CellinNode				
		<u>B></u>				
>>>Power Local Cell	M		<u>9.2.1.X</u>		=	
Group ID						
>>>Maximum DL	M		9.2.1.39		=	

Power Capability						
>Service Impacting					_	
>>Local Cell		0			EACH	ignore
Information		<maxlocal CellinNode</maxlocal 				
	N4	B>	0.2.1.20			
>>>Local Cell ID	M		9.2.1.30			
>>>DL or Global	0		9.2.1.20D		_	
	0		0.2.1.654			
>>>UL Capacity Credit	0		9.2.1.05A			
>>>Common Channels			9.2.1.9A		_	
	0		9 2 1 20A			
Channels Capacity	•		0.200			
Consumption Law						
>>>Maximum DI	0		9.2.1.39		_	
Power Capability						
>>>Minimum	0		9.2.1.47		_	
Spreading Factor						
>>>Minimum DL Powe	r O		9.2.1.46A		_	
Capability						
>>>Reference Clock	0		9.2.3.14A	TDD only	YES	ignore
availability						
>>Local Cell Group		0			EACH	ignore
Information		<maxlocal< td=""><td></td><td></td><td></td><td></td></maxlocal<>				
		CelliniNode B>				
>>>l ocal Cell Group	М	62	9.2.1.37A		_	
>>>DL or Global	0		9.2.1.20B		_	
Capacity Credit						
>>>UL Capacity Credit	0		9.2.1.65A		_	
>>>Common Channels	, O		9.2.1.9A		_	
Capacity Consumption						
Law						
>>>Dedicated	0		9.2.1.20A		-	
Channels Capacity						
Consumption Law		_				
>>Power Local Cell		<u>0</u>			EACH	ignore
Group Information		<u><maxlocal< u=""> CellinNode</maxlocal<></u>				
		<u>B></u>				
>>>Power Local Cell	M		<u>9.2.1.X</u>		=	
Group ID						
>>>Maximum DL	M		<u>9.2.1.39</u>		=	
Power Capability						
>>Communication		0			EACH	ignore
Control Port		<maxccpi nNodePs</maxccpi 				
Information		TINOUED>				
>>>Communication	М		9.2.1.15		_	
Control Port ID						
>>>Resource	М		9.2.1.52		-	
Operational State						
>>>Availability Status	M		9.2.1.2			
>>Cell Information		0			EACH	ignore
		<pre><maxcellin nodep=""></maxcellin></pre>				
	Μ	NUUED>	9,219		_	
~~~U	1	1		1	l .	1

>>>Resource	0		9.2.1.52		-	
Operational State						
>>>Availability Status	0		9.2.1.2		_	
>>>Primary SCH Information	0		Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignore
>>>Secondary SCH Information	0		Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignore
>>>Primary CPICH Information	0		Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignore
>>>Secondary CPICH		0 <maxsc PICHCell&gt;</maxsc 		FDD only	EACH	ignore
	М		Common			
>>>Secondary CPICH Individual Information			Physical Channel Status Information 9.2.1.13A			
>>>Primary CCPCH Information	0		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>BCH Information	0		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>>>Secondary CCPCH Information		0 <maxsc CPCHCell &gt;</maxsc 			EACH	ignore
>>>>Secondary CCPCH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A		_	
>>>PCH Information	0		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>>>PICH Information	0		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>FACH Information		0 <maxfac HCell&gt;</maxfac 			EACH	ignore
>>>FACH Individual Information	M		Common Transport		-	

			Channel Status Information 9.2.1.14B			
>>>PRACH		0 <maxpr ACHCell&gt;</maxpr 			EACH	ignore
>>>PRACH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A		-	
>>>RACH Information		0 <maxpra CHCell&gt;</maxpra 			EACH	ignore
>>>>RACH Individual Information	М	0	Common Transport Channel Status Information 9.2.1.14B	EDD only		ignoro
>>>AICH Information		<maxpra CHCell&gt;</maxpra 		PDD only	EAGIT	ignore
>>>>AICH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A		_	
>>>PCPCH Information		0 <maxpc PCHCell&gt;</maxpc 		FDD only	EACH	ignore
>>>PCPCH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A		_	
>>>CPCH Information		0 <maxcpc HCell&gt;</maxcpc 		FDD only	EACH	ignore
>>>>CPCH Individual Information	М		Common Transport Channel Status Information 9.2.1.14B		_	
>>>AP-AICH Information		0 <maxcpc HCell&gt;</maxcpc 		FDD only	EACH	ignore
>>>AP-AICH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A		_	
>>>CD/CA-ICH Information		0 <maxcpc HCell&gt;</maxcpc 		FDD only	EACH	ignore
>>>CD/CA-ICH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A		_	
>>>SCH Information	0		Common Physical	3.84Mcps TDD only	YES	ignore

			Channel Status Information 9.2.1.13A			
>>>FPACH Information		0 <maxfpa CHCell&gt;</maxfpa 		For 1.28Mcps TDD only	EACH	ignore
>>>>FPACH Individual Information	М		Common Physical Channel Status Information 9.2.1.13A		_	
>>>DwPCH Information	0		Common Physical Channel Status Information 9.2.1.13A	For 1.28Mcps TDD only	YES	ignore
Cause	0		9.2.1.6		YES	ignore

Condition	Explanation
add	The IE shall be present if the Add/Delete Indicator IE is set to
	"Add".

Range bound	Explanation
MaxLocalCellinNodeB	Maximum number of Local Cells that can exist in the Node B
MaxCellinNodeB	Maximum number of C ID that can be configured in Node B
MaxCPCHCell	Maximum number of CPCHes that can be defined in a Cell
MaxSCPICHCell	Maximum number of Secondary CPICH that can be defined in a Cell.
MaxSCCPCHCell	Maximum number of Secondary CCPCH that can be defined in a Cell.
MaxFACHCell	Maximum number of FACHes that can be defined in a Cell
MaxPCPCHCell	Maximum number of PCPCHes that can be defined in a Cell
MaxPRACHCell	Maximum number of PRACHes and AICHes that can be defined in a Cell
MaxCCPinNodeB	Maximum number of communication control ports that can exist in the Node B
MaxFPACHCell	Maximum number of FPACHes that can be defined in a Cell

## 9.2.1.39 Maximum DL Power Capability

This parameter indicates the maximum DL power capability for a local cell <u>or a Power Local Cell Group</u> within Node B. The reference point is the antenna connector.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Maximum DL Power Capability			ENUMERAT ED(0500)	dBm, granularity 0.1 dB 0: 0 dBm 1: 0.1 dBm  499: 49.9 dBm 500: 50.0 dBm

## 9.2.1.X Power Local Cell Group ID

The Power Local Cell Group ID represents resources in the Node B which have been pooled from a DL power capability point of view.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Power Local Cell Group ID			Local Cell ID 9.2.1.38	

## 9.3.3 PDU Definitions

_ _ -- PDU definitions for NBAP. ___ NBAP-PDU-Contents { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN ____ -- IE parameter types from other modules. ---IMPORTS Active-Pattern-Sequence-Information, AddorDeleteIndicator, AICH-Power, AICH-TransmissionTiming, AllocationRetentionPriority, APPreambleSignature, APSubChannelNumber, AvailabilityStatus, BCCH-ModificationTime, BindingID, BlockingPriorityIndicator, SCTD-Indicator, Cause, CCTrCH-ID, CDSubChannelNumbers, CellParameterID, CellSyncBurstAvailabilityIndicator, CellSyncBurstCode, CellSyncBurstCodeShift, CellSyncBurstRepetitionPeriod, CellSyncBurstSIR, CellSyncBurstTiming, CellSyncBurstTimingThreshold, CFN, Channel-Assignment-Indication, ChipOffset, C-ID, Closedlooptimingadjustmentmode,

CommonChannelsCapacityConsumptionLaw, Compressed-Mode-Deactivation-Flag, CommonMeasurementAccuracy, CommonMeasurementType, CommonMeasurementValue, CommonMeasurementValueInformation, CommonPhysicalChannelID, Common-PhysicalChannel-Status-Information, Common-TransportChannel-Status-Information, CommonTransportChannelID, CommonTransportChannel-InformationResponse, CommunicationControlPortID, ConfigurationGenerationID, ConstantValue, CriticalityDiagnostics, CPCH-Allowed-Total-Rate, CPCHScramblingCodeNumber, CPCH-UL-DPCCH-SlotFormat, CRNC-CommunicationContextID, CSBMeasurementID, CSBTransmissionID, DCH-FDD-Information, DCH-InformationResponse, DCH-ID. FDD-DCHs-to-Modify, TDD-DCHs-to-Modify, DCH-TDD-Information, DedicatedChannelsCapacityConsumptionLaw, DedicatedMeasurementType, DedicatedMeasurementValue, DedicatedMeasurementValueInformation, DiversityControlField, DiversityMode, DL-DPCH-SlotFormat, DL-or-Global-CapacityCredit, DL-Power, DLPowerAveragingWindowSize, DL-ScramblingCode, DL-TimeslotISCP, DL-Timeslot-Information, DL-TimeslotLCR-Information, DL-TimeslotISCPInfo, DL-TimeslotISCPInfoLCR, DL-TPC-Pattern01Count, DPC-Mode, DPCH-ID, DSCH-ID, DSCH-FDD-Common-Information, DSCH-FDD-Information, DSCH-InformationResponse, DSCH-TDD-Information, DwPCH-Power, End-Of-Audit-Sequence-Indicator,

IB-Type,

MinimumDL-PowerCapability, MinSpreadingFactor,

NRepetitionsPerCyclePeriod,

MultiplexingPosition,

NCyclesPerSFNperiod,

NEOT,

NFmax,

N-INSYNC-IND, N-OUTSYNC-IND,

MinUL-ChannelisationCodeLength,

NeighbouringCellMeasurementInformation, NeighbouringFDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation,

EnhancedDSCHPC, EnhancedDSCHPCCounter, EnhancedDSCHPCIndicator. EnhancedDSCHPCWnd, EnhancedDSCHPowerOffset, FDD-DL-ChannelisationCodeNumber, FDD-DL-CodeInformation, FDD-S-CCPCH-Offset, FDD-TPC-DownlinkStepSize, FirstRLS-Indicator, FNReportingIndicator, FPACH-Power, FrameAdjustmentValue, FrameHandlingPriority, FrameOffset, IB-OC-ID, IB-SG-DATA, IB-SG-POS, IB-SG-REP, IndicationType, InformationExchangeID, InformationReportCharacteristics, InformationType, InnerLoopDLPCStatus, IPDL-FDD-Parameters, IPDL-TDD-Parameters, IPDL-Indicator, LimitedPowerIncrease, Local-Cell-ID, MaximumDL-PowerCapability, MaximumTransmissionPower, Max-Number-of-PCPCHes, MaxNrOfUL-DPDCHs, MaxPRACH-MidambleShifts, MeasurementFilterCoefficient, MeasurementID, MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftLCR,

PagingIndicatorLength,

NStartMessage,

NodeB-CommunicationContextID,

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PayloadCRC-PresenceIndicator, PCCPCH-Power, PCP-Length, PDSCH-CodeMapping, PDSCHSet-ID, PDSCH-ID, PICH-Mode, PICH-Power, PowerAdjustmentType, PowerOffset, PowerRaiseLimit, PRACH-Midamble, PreambleSignatures, PreambleThreshold, PredictedSFNSFNDeviationLimit, PredictedTUTRANGPSDeviationLimit, PrimaryCPICH-Power, PrimaryScramblingCode, PropagationDelay, SCH-TimeSlot, PunctureLimit, PUSCHSet-ID, PUSCH-ID, OE-Selector, RACH-SlotFormat, RACH-SubChannelNumbers, ReferenceClockAvailability, ReferenceSFNoffset, RepetitionLength, RepetitionPeriod, ReportCharacteristics, RequestedDataValue, RequestedDataValueInformation, ResourceOperationalState, RL-Set-ID, RL-ID, Received-total-wide-band-power-Value, AdjustmentPeriod, ScaledAdjustmentRatio, MaxAdjustmentStep, RNC-ID, ScramblingCodeNumber, SecondaryCCPCH-SlotFormat, Segment-Type, S-FieldLength, SFN, SFNSFNChangeLimit, SFNSFNDriftRate, SFNSFNDriftRateQuality, SFNSFNQuality,

ShutdownTimer, SIB-Originator, SpecialBurstScheduling, SSDT-Cell-Identity, SSDT-CellID-Length, SSDT-Indication, Start-Of-Audit-Sequence-Indicator, STTD-Indicator, SSDT-SupportIndicator, SyncCase, SYNCDlCodeId, SyncFrameNumber, SynchronisationReportCharacteristics, SynchronisationReportType, T-Cell, T-RLFAILURE, TDD-ChannelisationCode, TDD-ChannelisationCodeLCR, TDD-DL-Code-LCR-Information, TDD-DPCHOffset, TDD-TPC-DownlinkStepSize, TDD-PhysicalChannelOffset, TDD-UL-Code-LCR-Information, TFCI2-BearerInformationResponse, TFCI-Coding, TFCI-Presence, TFCI-SignallingMode, TFCS, TimeSlot, TimeSlotLCR, TimeSlotDirection, TimeSlotStatus, TimingAdjustmentValue, TimingAdvanceApplied, TOAWE , TOAWS, TransmissionDiversityApplied, TransmitDiversityIndicator, TransmissionGapPatternSequenceCodeInformation, Transmission-Gap-Pattern-Sequence-Information, TransportBearerRequestIndicator, TransportFormatSet, TransportLayerAddress, TSTD-Indicator, UARFCN, TUTRANGPS, TUTRANGPSChangeLimit, TUTRANGPSDriftRate, TUTRANGPSDriftRateOuality, TUTRANGPSQuality, UARFCN, UC-Id,

USCH-Information, USCH-InformationResponse, UL-CapacityCredit, UL-DPCCH-SlotFormat. UL-SIR, UL-FP-Mode, UL-PhysCH-SF-Variation, UL-ScramblingCode, UL-Timeslot-Information, UL-TimeslotLCR-Information, UL-TimeSlot-ISCP-Info, UL-TimeSlot-ISCP-LCR-Info, UL-TimeslotISCP-Value, UL-TimeslotISCP-Value-IncrDecrThres. USCH-ID FROM NBAP-IES PrivateIE-Container{}, ProtocolExtensionContainer{}, ProtocollE-Container{}, ProtocolIE-Single-Container{}, ProtocolIE-ContainerList{}, NBAP-PRIVATE-IES, NBAP-PROTOCOL-IES. NBAP-PROTOCOL-EXTENSION FROM NBAP-Containers id-Active-Pattern-Sequence-Information, id-AdjustmentRatio, id-AICH-Information, id-AICH-ParametersListIE-CTCH-ReconfRqstFDD, id-AP-AICH-Information, id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD, id-BCH-Information, id-BCCH-ModificationTime, id-BlockingPriorityIndicator, id-Cause. id-CauseLevel-PSCH-ReconfFailureTDD, id-CauseLevel-RL-AdditionFailureFDD, id-CauseLevel-RL-AdditionFailureTDD, id-CauseLevel-RL-ReconfFailure, id-CauseLevel-RL-SetupFailureFDD, id-CauseLevel-RL-SetupFailureTDD, id-CauseLevel-SyncAdjustmntFailureTDD, id-CCP-InformationItem-AuditRsp, id-CCP-InformationList-AuditRsp, id-CCP-InformationItem-ResourceStatusInd, id-CCTrCH-InformationItem-RL-FailureInd, id-CCTrCH-InformationItem-RL-RestoreInd, id-CDCA-ICH-Information, id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD, id-CellAdjustmentInfo-SyncAdjustmntRgstTDD, id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD, id-Cell-InformationItem-AuditRsp, id-Cell-InformationItem-ResourceStatusInd, id-Cell-InformationList-AuditRsp. id-CellParameterID, id-CellSyncBurstTransInit-CellSyncInitiationRgstTDD, id-CellSyncBurstMeasureInit-CellSyncInitiationRgstTDD, id-cellSyncBurstRepetitionPeriod, id-CellSyncBurstTransReconfiguration-CellSyncReconfRgstTDD, id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD, id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD, id-CellSyncBurstMeasInfoList-CellSyncReconfRgstTDD, id-CellSyncBurstInfoList-CellSyncReconfRqstTDD, id-CellSyncInfo-CellSyncReprtTDD, id-CFN. id-CFNReportingIndicator, id-C-ID, id-Closed-Loop-Timing-Adjustment-Mode, id-CommonMeasurementAccuracy, id-CommonMeasurementObjectType-CM-Rprt, id-CommonMeasurementObjectType-CM-Rqst, id-CommonMeasurementObjectType-CM-Rsp, id-CommonMeasurementType, id-CommonPhysicalChannelID, id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD, id-CommonPhysicalChannelType-CTCH-SetupRgstFDD, id-CommonPhysicalChannelType-CTCH-SetupRgstTDD, id-CommunicationContextInfoItem-Reset, id-CommunicationControlPortID, id-CommunicationControlPortInfoItem-Reset, id-Compressed-Mode-Deactivation-Flag, id-ConfigurationGenerationID, id-CPCH-Information, id-CPCH-Parameters-CTCH-SetupRsp, id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD, id-CRNC-CommunicationContextID, id-CriticalityDiagnostics, id-CSBTransmissionID, id-CSBMeasurementID, id-DCHs-to-Add-FDD, id-DCHs-to-Add-TDD, id-DCH-AddList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfPrepFDD, id-DCH-DeleteList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfRqstFDD, id-DCH-DeleteList-RL-ReconfRgstTDD, id-DCH-FDD-Information, id-DCH-TDD-Information, id-DCH-InformationResponse, id-FDD-DCHs-to-Modify, id-TDD-DCHs-to-Modify, id-DedicatedMeasurementObjectType-DM-Rprt, id-DedicatedMeasurementObjectType-DM-Rgst, id-DedicatedMeasurementObjectType-DM-Rsp,

id-DedicatedMeasurementType, id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD. id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD, id-DL-CCTrCH-InformationItem-RL-SetupRgstTDD, id-DL-CCTrCH-InformationList-RL-AdditionRgstTDD, id-DL-CCTrCH-InformationList-RL-SetupRgstTDD, id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD, id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationItem-RL-AdditionRqstTDD, id-DL-DPCH-InformationList-RL-SetupRqstTDD, id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD, id-DL-DPCH-Information-RL-ReconfPrepFDD, id-DL-DPCH-Information-RL-ReconfRgstFDD, id-DL-DPCH-Information-RL-SetupRqstFDD, id-DL-ReferencePowerInformationItem-DL-PC-Rqst, id-DLReferencePower, id-DLReferencePowerList-DL-PC-Rqst, id-DL-TPC-Pattern01Count. id-DPC-Mode, id-DPCHConstant, id-DSCH-AddItem-RL-ReconfPrepFDD, id-DSCHs-to-Add-FDD, id-DSCH-DeleteItem-RL-ReconfPrepFDD, id-DSCH-DeleteList-RL-ReconfPrepFDD, id-DSCHs-to-Add-TDD, id-DSCH-Information-DeleteList-RL-ReconfPrepTDD, id-DSCH-Information-ModifyList-RL-ReconfPrepTDD, id-DSCH-InformationResponse, id-DSCH-FDD-Information, id-DSCH-FDD-Common-Information. id-DSCH-TDD-Information. id-DSCH-ModifyItem-RL-ReconfPrepFDD, id-DSCH-ModifyList-RL-ReconfPrepFDD, id-End-Of-Audit-Sequence-Indicator, id-EnhancedDSCHPC, id-EnhancedDSCHPCIndicator, id-FACH-Information, id-FACH-ParametersList-CTCH-ReconfRqstTDD, id-FACH-ParametersList-CTCH-SetupRsp, id-FACH-ParametersListIE-CTCH-ReconfRqstFDD, id-FACH-ParametersListIE-CTCH-SetupRqstFDD, id-FACH-ParametersListIE-CTCH-SetupRqstTDD, id-IndicationType-ResourceStatusInd, id-InformationExchangeID, id-InformationExchangeObjectType-InfEx-Rqst, id-InformationExchangeObjectType-InfEx-Rsp,

id-InformationExchangeObjectType-InfEx-Rprt,

id-InformationReportCharacteristics, id-InformationType. id-InitDL-Power. id-InnerLoopDLPCStatus, id-IntStdPhCellSvncInfoItem-CellSvncReprtTDD, id-IPDLParameter-Information-Cell-ReconfRgstFDD, id-IPDLParameter-Information-Cell-SetupRqstFDD, id-IPDLParameter-Information-Cell-ReconfRgstTDD, id-IPDLParameter-Information-Cell-SetupRqstTDD, id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD, id-Limited-power-increase-information-Cell-SetupRgstFDD, id-Local-Cell-ID. id-Local-Cell-Group-InformationItem-AuditRsp, id-Local-Cell-Group-InformationItem-ResourceStatusInd, id-Local-Cell-Group-InformationItem2-ResourceStatusInd, id-Local-Cell-Group-InformationList-AuditRsp, id-Local-Cell-InformationItem-AuditRsp, id-Local-Cell-InformationItem-ResourceStatusInd, id-Local-Cell-InformationItem2-ResourceStatusInd, id-Local-Cell-InformationList-AuditRsp, id-AdjustmentPeriod, id-MaxAdjustmentStep, id-MaximumTransmissionPower, id-MeasurementFilterCoefficient. id-MeasurementID, id-MIB-SB-SIB-InformationList-SystemInfoUpdateRgst, id-NCyclesPerSFNperiod, id-NeighbouringCellMeasurementInformation, id-NodeB-CommunicationContextID, id-NRepetitionsPerCyclePeriod, id-P-CCPCH-Information, id-P-CPICH-Information, id-P-SCH-Information, id-PCCPCH-Information-Cell-ReconfRqstTDD, id-PCCPCH-Information-Cell-SetupRgstTDD, id-PCH-Parameters-CTCH-ReconfRgstTDD, id-PCH-Parameters-CTCH-SetupRsp, id-PCH-ParametersItem-CTCH-ReconfRgstFDD, id-PCH-ParametersItem-CTCH-SetupRgstFDD, id-PCH-ParametersItem-CTCH-SetupRqstTDD, id-PCH-Information, id-PCPCH-Information, id-PICH-ParametersItem-CTCH-ReconfRqstFDD, id-PDSCH-Information-AddListIE-PSCH-ReconfRqst, id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst, id-PDSCHSets-AddList-PSCH-ReconfRqst, id-PDSCHSets-DeleteList-PSCH-ReconfRqst, id-PDSCHSets-ModifyList-PSCH-ReconfRqst, id-PICH-Information, id-PICH-Parameters-CTCH-ReconfRqstTDD, id-PICH-ParametersItem-CTCH-SetupRgstTDD, id-PowerAdjustmentType, id-Power-Local-Cell-Group-InformationItem-AuditRsp,

id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd, id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd, id-Power-Local-Cell-Group-InformationList-AuditRsp, id-Power-Local-Cell-Group-InformationList-ResourceStatusInd, id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd, id-Power-Local-Cell-Group-ID, id-PRACH-Information, id-PRACHConstant, id-PRACH-ParametersItem-CTCH-SetupRqstTDD, id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD, id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD, id-PrimaryCCPCH-Information-Cell-SetupRqstFDD, id-PrimaryCPICH-Information-Cell-ReconfRqstFDD, id-PrimaryCPICH-Information-Cell-SetupRgstFDD, id-PrimarySCH-Information-Cell-ReconfRgstFDD, id-PrimarySCH-Information-Cell-SetupRgstFDD, id-PrimaryScramblingCode, id-SCH-Information-Cell-ReconfRgstTDD, id-SCH-Information-Cell-SetupRgstTDD, id-PUSCH-Information-AddListIE-PSCH-ReconfRqst, id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst, id-PUSCHConstant, id-PUSCHSets-AddList-PSCH-ReconfRqst, id-PUSCHSets-DeleteList-PSCH-ReconfRqst, id-PUSCHSets-ModifyList-PSCH-ReconfRqst, id-RACH-Information. id-RACH-Parameters-CTCH-SetupRsp, id-RACH-ParametersItem-CTCH-SetupRgstFDD, id-RACH-ParameterItem-CTCH-SetupRgstTDD, id-ReferenceClockAvailability, id-ReferenceSFNoffset, id-ReportCharacteristics, id-Reporting-Object-RL-FailureInd, id-Reporting-Object-RL-RestoreInd, id-ResetIndicator, id-RL-InformationItem-DM-Rprt, id-RL-InformationItem-DM-Rgst, id-RL-InformationItem-DM-Rsp, id-RL-InformationItem-RL-AdditionRgstFDD, id-RL-informationItem-RL-DeletionRgst, id-RL-InformationItem-RL-FailureInd, id-RL-InformationItem-RL-PreemptRequiredInd, id-RL-InformationItem-RL-ReconfPrepFDD, id-RL-InformationItem-RL-ReconfRqstFDD, id-RL-InformationItem-RL-RestoreInd, id-RL-InformationItem-RL-SetupRgstFDD, id-RL-InformationList-RL-AdditionRqstFDD, id-RL-informationList-RL-DeletionRqst, id-RL-InformationList-RL-PreemptRequiredInd, id-RL-InformationList-RL-ReconfPrepFDD, id-RL-InformationList-RL-ReconfRqstFDD, id-RL-InformationList-RL-SetupRqstFDD, id-RL-InformationResponseItem-RL-AdditionRspFDD,

id-RL-InformationResponseItem-RL-ReconfReady, id-RL-InformationResponseItem-RL-ReconfRsp, id-RL-InformationResponseItem-RL-SetupRspFDD. id-RL-InformationResponseList-RL-AdditionRspFDD, id-RL-InformationResponseList-RL-ReconfReady, id-RL-InformationResponseList-RL-ReconfRsp, id-RL-InformationResponseList-RL-SetupRspFDD, id-RL-InformationResponse-RL-AdditionRspTDD, id-RL-InformationResponse-RL-SetupRspTDD, id-RL-Information-RL-AdditionRgstTDD, id-RL-Information-RL-ReconfRgstTDD, id-RL-Information-RL-ReconfPrepTDD, id-RL-Information-RL-SetupRgstTDD, id-RL-ReconfigurationFailureItem-RL-ReconfFailure, id-RL-Set-InformationItem-DM-Rprt, id-RL-Set-InformationItem-DM-Rsp, id-RL-Set-InformationItem-RL-FailureInd, id-RL-Set-InformationItem-RL-RestoreInd, id-S-CCPCH-Information, id-S-CPICH-Information, id-SCH-Information, id-S-SCH-Information, id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD, id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD, id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD, id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD, id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD, id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD, id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD, id-SecondarySCH-Information-Cell-ReconfRqstFDD, id-SecondarySCH-Information-Cell-SetupRgstFDD, id-SegmentInformationListIE-SystemInfoUpdate, id-SFN, id-SFNReportingIndicator, id-ShutdownTimer, id-SSDT-CellIDforEDSCHPC, id-Start-Of-Audit-Sequence-Indicator, id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD, id-Successful-RL-InformationRespItem-RL-SetupFailureFDD, id-Synchronisation-Configuration-Cell-ReconfRqst, id-Synchronisation-Configuration-Cell-SetupRqst, id-SyncCase, id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH, id-SyncFrameNumber, id-SynchronisationReportType, id-SynchronisationReportCharacteristics, id-SyncReportType-CellSyncReprtTDD, id-T-Cell, id-TFCI2-Bearer-Information-RL-SetupRgstFDD, id-TFCI2-BearerInformationResponse, id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD, id-Transmission-Gap-Pattern-Sequence-Information, id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,

id-TimeSlotConfigurationList-Cell-SetupRgstTDD, id-timeslotInfo-CellSyncInitiationRgstTDD. id-TimeslotISCPInfo. id-TimingAdvanceApplied, id-TransmissionDiversitvApplied, id-UARFCNforNt, id-UARFCNforNd, id-UARFCNforNu, id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD, id-UL-CCTrCH-InformationList-RL-AdditionRgstTDD, id-UL-CCTrCH-InformationList-RL-SetupRgstTDD, id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationItem-RL-AdditionRqstTDD, id-UL-DPCH-InformationList-RL-SetupRqstTDD, id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD. id-UL-DPCH-Information-RL-ReconfPrepFDD, id-UL-DPCH-Information-RL-ReconfRgstFDD, id-UL-DPCH-Information-RL-SetupRqstFDD, id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD, id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD, id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD, id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD, id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD, id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD, id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD, id-USCH-Information-Add, id-USCH-Information-DeleteList-RL-ReconfPrepTDD, id-USCH-Information-ModifyList-RL-ReconfPrepTDD, id-USCH-InformationResponse, id-USCH-Information, id-DL-DPCH-LCR-Information-RL-SetupRgstTDD, id-DL-DPCH-LCR-InformationList-RL-SetupRgstTDD, id-DwPCH-LCR-Information, id-DwPCH-LCR-Information-AuditRsp, id-DwPCH-LCR-InformationList-AuditRsp, id-DwPCH-LCR-Information-Cell-SetupRgstTDD, id-DwPCH-LCR-Information-Cell-ReconfRgstTDD, id-DwPCH-LCR-Information-ResourceStatusInd, id-maxFACH-Power-LCR-CTCH-SetupRqstTDD, id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD, id-FPACH-LCR-Information, id-FPACH-LCR-Information-AuditRsp, id-FPACH-LCR-InformationList-AuditRsp, id-FPACH-LCR-InformationList-ResourceStatusInd,

id-FPACH-LCR-Parameters-CTCH-SetupRgstTDD, id-FPACH-LCR-ParametersItem-CTCH-SetupRgstTDD, id-FPACH-LCR-Parameters-CTCH-ReconfRostTDD. id-PCCPCH-LCR-Information-Cell-SetupRgstTDD, id-PCH-Power-LCR-CTCH-SetupRgstTDD, id-PCH-Power-LCR-CTCH-ReconfRqstTDD, id-PICH-LCR-Parameters-CTCH-SetupRgstTDD, id-PICH-LCR-ParametersItem-CTCH-SetupRgstTDD, id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD, id-PRACH-LCR-ParametersListIE-CTCH-SetupRqstTDD, id-RL-InformationResponse-LCR-RL-SetupRspTDD, id-Secondary-CCPCH-LCR-parameterListIE-CTCH-SetupRqstTDD, id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD, id-TimeSlot. id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD, id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD, id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD, id-TimeSlotLCR-CM-Rast, id-UL-DPCH-LCR-Information-RL-SetupRgstTDD, id-UL-DPCH-LCR-InformationList-RL-SetupRqstTDD, id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD, id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD, id-TimeslotISCP-InformationList-LCR-RL-AdditionRgstTDD, id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD, id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD, id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD, id-DL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD, id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD, id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD, id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD, id-UL-DPCH-LCR-InformationModify-AddList, id-UL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD, id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD, id-UL-SIRTarget, id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst, id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst, id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst, id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst, id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst, id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst, id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst, id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRgst, id-PUSCH-Info-DM-Rqst, id-PUSCH-Info-DM-Rsp, id-PUSCH-Info-DM-Rprt, id-RL-InformationResponse-LCR-RL-AdditionRspTDD,

maxNrOfCCTrCHs, maxNrOfCellSyncBursts, maxNrOfCodes, maxNrOfCPCHs, maxNrOfDCHs, maxNrOfDLTSs,

maxNrOfDLTSLCRs, maxNrOfDPCHs, maxNrOfDSCHs, maxNrOfFACHs, maxNrOfRLs, maxNrOfRLs-1, maxNrOfRLs-2, maxNrOfRLSets, maxNrOfPCPCHs, maxNrOfPDSCHs, maxNrOfPUSCHs, maxNrOfPRACHLCRs, maxNrOfPDSCHSets, maxNrOfPUSCHSets, maxNrOfReceptsPerSyncFrame, maxNrOfSCCPCHs, maxNrOfSCCPCHLCRs, maxNrOfULTSs, maxNrOfULTSLCRs, maxNrOfUSCHs, maxAPSigNum, maxCPCHCell, maxFACHCell, maxFPACHCell, maxNoofLen, maxRACHCell, maxPCPCHCell, maxPRACHCell, maxSCCPCHCell, maxSCPICHCell, maxCellinNodeB, maxCCPinNodeB, maxCommunicationContext, maxLocalCellinNodeB, maxNrOfSlotFormatsPRACH, maxNrOfCellSyncBursts, maxNrOfReceptsPerSyncFrame, maxIB, maxIBSEG FROM NBAP-Constants;

UNCHANGED TEXT IS OMITTED

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AUDIT RESPONSE								
************************************	* * * * * * * * * * * * * *	* * * * * * * * * *						
AuditResponse ::= SEQUENCE {								
protocolIEs ProtocolI	E-Container	{{AuditResponse	-IEs}},		_			
protocolExtensions ProtocolE	xtensionContai	ner {{AuditResp	onse-Exte	nsions}	}	OPTIONAL,		
•••								
}								
AuditResponse-IEs NBAP-PROTOCOL-IES ::= {								
{ ID id-End-Of-Audit-Sequence-Indi	cator	CRITICALITY	ignore	TYPE	End-Of-	-Audit-Sequence-Indicator H	PRESENCE mand	atory }
{ ID id-Cell-InformationList-Audit	Rsp	CRITICALITY	ignore		TYPE	Cell-InformationList-AuditRsp	PRES	ENCE
optional }								
{ ID id-CCP-InformationList-AuditR	sp	CRITICALITY	ignore		TYPE	CCP-InformationList-AuditRsp	PRESENC	E optional
}								
CCP (Communication Control Port) -	-							
{ ID id-Local-Cell-InformationList	-AuditRsp	CRITICALITY	ignore		TYPE	Local-Cell-InformationList-Au	ditRsp Pl	RESENCE
optional }								
{ ID id-Local-Cell-Group-Informati	onList-AuditRs	p CRITICALITY	igno	re	TYPE	Local-Cell-Group-InformationI	ist-AuditRsp	PRESENCE
optional }								
{ ID id-CriticalityDiagnostics		CRITICALITY	ignore		TYPE	CriticalityDiagnostics	PRESENC	E optional
},								
}								
AuditResponse-Extensions NBAP-PROTOCOL-EX	TENSION ::= {							
<pre>{ ID id-Power-Local-Cell-Group-Inf</pre>	ormationList-A	uditRsp CRITICA	LITY	ignore	EXT	TENSION Power-Local-Cell-Group	p-Information	List-
AuditRsp PRESENCE optional }	<u> </u>							
}								
Cell-InformationList-AuditRsp ::= SEQUENC	E (SIZE (1ma	xCellinNodeB)) O	F Protoco	lIE-Sing	gle-Cont	cainer {{    Cell-InformationItemI	E-AuditRsp}}	
Cell-InformationItemIE-AuditRsp NBAP-PROT	OCOL-IES ::= {							
{ ID id-Cell-InformationItem-Audit	Rsp CRI	TICALITY ign	ore	TYPE	Cell-In	nformationItem-AuditRsp H	PRESENCE 0	ptional }
}								
Cell-InformationItem-AuditRsp ::= SEQUENC	Ε {							
c-ID	C-ID,							
configurationGenerationID	Configurati	onGenerationID,						
resourceOperationalState ResourceOperationalState,								
availabilityStatus	Availabilit	yStatus,						
local-Cell-ID	Local-Cell-	ID,						
primary-SCH-Information	P-SCH-Infor	mation-AuditRsp			OPTIONA	AL,		
secondary-SCH-Information	S-SCH-Infor	mation-AuditRsp			OPTIONA	AL.		
primary-CPICH-Information	P-CPICH-Inf	ormation-AuditRs	n		OPTIONA			
secondary-CPICH-InformationList	S-CDICH-Inf	ormation List-And	r itRsp			, , A.T.		
primary-CCDCH-Information	D-CCDCU-INI	ormation_Audi+Pa	TCVDF			, דיר , אד.		
bau_Information	PCU_Informa	tion_AuditBar	Р		OPTIONA	, דד ,		
DCR-IIIOIIIdCIOII		icion-Audicksp	i+Dar		OPIIONA	<i>ع</i> ليا , مح		
secondary-CCPCH-InformationList S-CCPCH-InformationList-AuditRsp					OPIIONA	<del>ч</del> ш,		

#### CR page 40 3GPP TS 25.433 v4.3.0 (2001-12) pCH-Information PCH-Information-AuditRsp OPTIONAL, pICH-Information PICH-Information-AuditRsp OPTIONAL, fACH-InformationList FACH-InformationList-AuditRsp OPTIONAL. pRACH-InformationList PRACH-InformationList-AuditRsp OPTIONAL, rACH-InformationList RACH-InformationList-AuditRsp OPTIONAL, aICH-InformationList AICH-InformationList-AuditRsp OPTIONAL, pCPCH-InformationList PCPCH-InformationList-AuditRsp OPTIONAL, cPCH-InformationList CPCH-InformationList-AuditRsp OPTIONAL, aP-AICH-InformationList AP-AICH-InformationList-AuditRsp OPTIONAL, cDCA-ICH-InformationList CDCA-ICH-InformationList-AuditRsp OPTIONAL, sCH-Information SCH-Information-AuditRsp OPTIONAL, iE-Extensions ProtocolExtensionContainer { { Cell-InformationItem-AuditRsp-ExtIEs } } OPTIONAL, . . . Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-FPACH-LCR-InformationList-AuditRsp CRITICALITY ignore EXTENSION FPACH-LCR-InformationList-AuditRsp PRESENCE optional } -- For 1.28Mcps TDD only { ID id-DwPCH-LCR-InformationList-AuditRsp CRITICALITY ignore EXTENSION DwPCH-LCR-InformationList-AuditRsp PRESENCE optional }, -- For 1.28Mcps TDD only . . . P-SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-SCH-InformationIE-AuditRsp }} P-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-P-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } S-SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ S-SCH-InformationIE-AuditRsp }} S-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-S-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } } P-CPICH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-CPICH-InformationIE-AuditRsp }} P-CPICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-P-CPICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory S-CPICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF Protocolle-Single-Container {{ S-CPICH-InformationItemIE-AuditRsp }} S-CPICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= { TYPE Common-PhysicalChannel-Status-Information { ID id-S-CPICH-Information CRITICALITY ignore PRESENCE mandatory } P-CCPCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-CCPCH-InformationIE-AuditRsp }} P-CCPCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= { { ID id-P-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }

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```
BCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ BCH-InformationIE-AuditRsp }}
BCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-BCH-Information CRITICALITY ignore
                                                   TYPE Common-TransportChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
S-CCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF Protocolle-Single-Container {{ S-CCPCH-InformationItemIE-AuditRsp }}
S-CCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-S-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
PCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ PCH-InformationIE-AuditRsp }}
PCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-Information CRITICALITY ignore
                                                TYPE Common-TransportChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
PICH-Information-AuditRsp ::= ProtocollE-Single-Container {{ PICH-InformationIE-AuditRsp }}
PICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-PICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
}
FACH-InformationList-AuditRsp ::= SEOUENCE (SIZE (1..maxFACHCell)) OF ProtocollE-Single-Container {{ FACH-InformationItemIE-AuditRsp }}
FACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
PRACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-InformationItemIE-AuditRsp }}
PRACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
}
RACH-InformationList-AuditRsp ::= SEOUENCE (SIZE (1..maxRACHCell)) OF ProtocollE-Single-Container {{ RACH-InformationItemIE-AuditRsp }}
RACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ AICH-InformationItemIE-AuditRsp }}
AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-AICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
PCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPCPCHCell)) OF ProtocolIE-Single-Container {{ PCPCH-InformationItemIE-AuditRsp }}
PCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-PCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                     PRESENCE optional }
```

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```
CPCH-InformationList-AuditRsp ::= SEOUENCE (SIZE (1..maxCPCHCell)) OF ProtocollE-Single-Container {{ CPCH-InformationItemIE-AuditRsp }}
CPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-CPCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information
                                                                                                                      PRESENCE optional
}
AP-AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF Protocolle-Single-Container {{ AP-AICH-InformationItemIE-AuditRsp }}
AP-AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-AP-AICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                      PRESENCE mandatory }
CDCA-ICH-InformationList-AuditRsp ::= SEOUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ CDCA-ICH-InformationItemIE-AuditRsp }}
CDCA-ICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-CDCA-ICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                      PRESENCE mandatory }
SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ SCH-InformationIE-AuditRsp }}
SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-SCH-Information CRITICALITY ignore
                                                   TYPE Common-PhysicalChannel-Status-Information
                                                                                                                      PRESENCE mandatory }
CCP-InformationList-AuditRsp ::=SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Single-Container {{ CCP-InformationItemIE-AuditRsp }}
CCP-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    {ID id-CCP-InformationItem-AuditRsp
                                               CRITICALITY
                                                                ignore
                                                                               TYPE
                                                                                       CCP-InformationItem-AuditRsp
                                                                                                                            PRESENCE mandatory }
CCP-InformationItem-AuditRsp ::= SEOUENCE {
    communicationControlPortID
                                        CommunicationControlPortID,
    resourceOperationalState
                                        ResourceOperationalState,
    availabilityStatus
                                       AvailabilityStatus,
    iE-Extensions
                                        ProtocolExtensionContainer {{ CCP-InformationItem-AuditRsp-ExtIEs }}
                                                                                                                      OPTIONAL,
CCP-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
FPACH-LCR-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFPACHCell)) OF ProtocolIE-Single-Container {{ FPACH-LCR-InformationItemIE-AuditRsp }}
FPACH-LCR-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-FPACH-LCR-Information-AuditRsp CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                      PRESENCE mandatory }
}
DwPCH-LCR-InformationList-AuditRsp ::= ProtocollE-Single-Container {{ DwPCH-LCR-InformationIE-AuditRsp }}
DwPCH-LCR-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-DwPCH-LCR-Information-AuditRsp CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                      PRESENCE mandatory }
```

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}

Local-Cell-InformationList-AuditRsp ::=SEQUEN AuditRsp }}	CE (SIZE (1maxLocalCellinN	odeB)) OF Protoc	colIE-Single-Container	{{ Local-Cell-InformationItemIE-
Local-Cell-InformationItemIE-AuditRsp NBAP-PRO { ID id-Local-Cell-InformationItem-Audi AuditRsp PRESENCE mandatory} }	TOCOL-IES ::= { tRsp CRITICALITY	ignore	TYPE	Local-Cell-InformationItem-
Local-Cell-InformationItem-AuditRsp ::= SEQUEN local-Cell-ID dl-or-global-capacityCredit ul-capacityCredit commnonChannelsCapacityConsumptionLaw dedicatedChannelsCapacityConsumptionLaw maximumDL-PowerCapability minSpreadingFactor minimumDL-PowerCapability local-Cell-Group-ID iE-Extensions 	CE { Local-Cell-ID, DL-or-Global-CapacityCredi UL-CapacityCredit OP CommonChannelsCapacityCons DedicatedChannelsCapacityC MaximumDL-PowerCapability MinSpreadingFactor MinimumDL-PowerCapability Local-Cell-ID ProtocolExtensionContainer	t, TIONAL, umptionLaw, onsumptionLaw, OPTIONAL, OPTIONAL, OPTIONAL, {{Local-Cell-	-InformationItem-AuditR	<pre>sp-ExtIEs}} OPTIONAL,</pre>
<pre>} Local-Cell-InformationItem-AuditRsp-ExtIEs NBA     [ID id-ReferenceClockAvailability     { ID id-Power-Local-Cell-Group-ID</pre>	P-PROTOCOL-EXTENSION ::= { CRITICALITY ignore CRITICALITY ignore	EXTENSION EXTENSION	ReferenceClockAvailabi Local-Cell-ID	lity PRESENCE optional }, PRESENCE optional },
Local-Cell-Group-InformationList-AuditRsp : InformationItemIE-AuditRsp }}	:= SEQUENCE (SIZE (1maxLoc	alCellinNodeB))	OF ProtocolIE-Single-C	Container {{ Local-Cell-Group-
Local-Cell-Group-InformationItemIE-AuditRsp NB { ID id-Local-Cell-Group-InformationIte InformationItem-AuditRsp PRESENCE ma }	AP-PROTOCOL-IES ::= { m-AuditRsp CRITIC ndatory}	ALITY ignore	2	TYPE Local-Cell-Group-
Local-Cell-Group-InformationItem-AuditRsp ::= local-Cell-Group-ID dl-or-global-capacityCredit ul-capacityCredit commnonChannelsCapacityConsumptionLaw dedicatedChannelsCapacityConsumptionLaw iE-Extensions	SEQUENCE { Local-Cell-ID, DL-or-Global-CapacityCredi UL-CapacityCredit CommonChannelsCapacityCons DedicatedChannelsCapacityC ProtocolExtensionContainer	t, umptionLaw, onsumptionLaw, {{Local-Cell-	PTIONAL, -Group-InformationItem-	AuditRsp-ExtIEs}} OPTIONAL,
}				
Local-Cell-Group-InformationItem-AuditRsp-ExtI	ES NBAP-PROTOCOL-EXTENSION :	:= {		
l l				

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<u>Power-Local-Cell-Group-InformationList-AuditRsp</u> ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Power-Local-Cell-Group-InformationItemIE-AuditRsp }}

Power-Local-Cell-Group-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {

 

 { ID
 id-Power-Local-Cell-Group-InformationItem-AuditRsp
 CRITICALITY
 ignore
 TYPE
 Power-Local-Cell-Group-InformationItem-AuditRsp

 AuditRsp
 PRESENCE
 mandatory}

 }

Power-Local-Cell-Group-InformationItem-AuditRsp ::= SEQUENCE {

power-Local-Cell-Group-ID Local-Cell-ID,

maximumDL-PowerCapability MaximumDL-PowerCapability

iE-Extensions ProtocolExtensionContainer {{ Power-Local-Cell-Group-InformationItem-AuditRsp-ExtIEs}} OPTIONAL,

 $\frac{\ldots}{1}$ 

Power-Local-Cell-Group-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

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UNCHANGED TEXT IS OMITTED

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_ _ -- RESOURCE STATUS INDICATION _ _ ResourceStatusIndication ::= SEQUENCE { protocolIEs ProtocolIE-Container {{ResourceStatusIndication-IEs}}, protocolExtensions ProtocolExtensionContainer {{ResourceStatusIndication-Extensions}} OPTIONAL, } ResourceStatusIndication-IEs NBAP-PROTOCOL-IES ::= { { ID id-IndicationType-ResourceStatusInd CRITICALITY ignore TYPE IndicationType-ResourceStatusInd PRESENCE mandatory }| -- This IE represents both the Indication Type IE and the choice based on the indication type as described in the tabular message format in subclause 9.1. { ID id-Cause CRITICALITY ignore TYPE Cause PRESENCE optional }, . . . ResourceStatusIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . IndicationType-ResourceStatusInd ::= CHOICE { no-Failure No-Failure-ResourceStatusInd, serviceImpacting ServiceImpacting-ResourceStatusInd, . . . No-Failure-ResourceStatusInd ::= SEQUENCE { local-Cell-InformationList Local-Cell-InformationList-ResourceStatusInd, local-Cell-Group-InformationList Local-Cell-Group-InformationList-ResourceStatusInd OPTIONAL, ProtocolExtensionContainer { { No-FailureItem-ResourceStatusInd-ExtIEs } } OPTIONAL, iE-Extensions . . . No-FailureItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-Power-Local-Cell-Group-InformationList-ResourceStatusInd CRITICALITY ignore EXTENSION Power-Local-Cell-Group-InformationList-ResourceStatusInd PRESENCE optional }, . . . } Local-Cell-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationItemIE-ResourceStatusInd }} Local-Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-Local-Cell-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Local-Cell-InformationItem-ResourceStatusInd PRESENCE mandatory } }

```
Local-Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
    local-CellID
                                                Local-Cell-ID.
    addorDeleteIndicator
                                                AddorDeleteIndicator.
    dl-or-global-capacityCredit
                                                DL-or-Global-CapacityCredit
                                                                                 OPTIONAL,
    -- This IE shall be present if AddorDeleteIndicator IE is set to "add"
    ul-capacityCredit
                                                UL-CapacityCredit
                                                                         OPTIONAL,
    commnonChannelsCapacityConsumptionLaw
                                                CommonChannelsCapacityConsumptionLaw
                                                                                         OPTIONAL,
    -- This IE shall be present if AddorDeleteIndicator IE is set to "add"
    dedicatedChannelsCapacityConsumptionLaw
                                                DedicatedChannelsCapacityConsumptionLaw
                                                                                             OPTIONAL,
    -- This IE shall be present if AddorDeleteIndicator IE is set to "add"
    maximumDL-PowerCapability
                                                MaximumDL-PowerCapability
                                                                                 OPTIONAL,
    -- This IE shall be present if AddorDeleteIndicator IE is set to "add"
    minSpreadingFactor
                                                MinSpreadingFactor
                                                                                     OPTIONAL,
    -- This IE shall be present if AddorDeleteIndicator IE is set to "add"
    minimumDL-PowerCapability
                                                MinimumDL-PowerCapability
                                                                                 OPTIONAL,
    -- This IE shall be present if AddorDeleteIndicator IE is set to "add"
    local-Cell-Group-ID
                                                Local-Cell-ID
                                                                                 OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { Local-Cell-InformationItem-ResourceStatusInd-ExtIEs } OPTIONAL,
    . . .
Local-Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-FPACH-LCR-InformationList-ResourceStatusInd
                                                             CRITICALITY ignore
                                                                                     EXTENSION
                                                                                                 FPACH-LCR-InformationList-ResourceStatusInd
    PRESENCE optional }| -- for 1.28Mcps TDD only
     ID id-DwPCH-LCR-Information-ResourceStatusInd CRITICALITY ignore
                                                                                         DwPCH-LCR-Information-ResourceStatusInd
                                                                                                                                   PRESENCE optional
                                                                             EXTENSION
    }| -- for 1.28Mcps TDD only
         id-ReferenceClockAvailability
                                                                                                                              PRESENCE optional },
                                                CRITICALITY
                                                                 ignore
                                                                                 EXTENSION ReferenceClockAvailability
    { ID
    -- This IE shall be present if AddorDeleteIndicator IE is set to "add" and the Local Cell is related to a TDD cell
           id-Power-Local-Cell-Group-ID
                                                                                                                              PRESENCE optional },
    { ID
                                                CRITICALITY
                                                                 ignore
                                                                                 EXTENSION Local-Cell-ID
    . . .
Local-Cell-Group-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-
InformationItemIE-ResourceStatusInd }}
Local-Cell-Group-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-Group-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Local-Cell-Group-InformationItem-ResourceStatusInd
    PRESENCE mandatory }
Local-Cell-Group-InformationItem-ResourceStatusInd::= SEQUENCE {
    local-Cell-Group-ID
                                                Local-Cell-ID,
    dl-or-global-capacityCredit
                                                DL-or-Global-CapacityCredit,
    ul-capacityCredit
                                                UL-CapacityCredit
                                                                         OPTIONAL,
    commonChannelsCapacityConsumptionLaw
                                                CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw
                                                DedicatedChannelsCapacityConsumptionLaw,
    iE-Extensions
                                                ProtocolExtensionContainer { { Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs } OPTIONAL.
    . . .
Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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Power-Local-Cell-Group-InformationList-Resour Cell-Group-InformationItemIE-ResourceStatusIn	cceStatusInd ::= SEQUENCE(SIZE nd }}	(1maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Power-Local-
Power-Local-Cell-Group-InformationItemIE-Reso          ID       id-Power-Local-Cell-Group-Informa         ResourceStatusInd       PRESENCE       mandatory         }	<pre>purceStatusInd NBAP-PROTOCOL-IE ationItem-ResourceStatusInd CRI </pre>	<u>3_::= {</u> FICALITY ignore TYPE Power-Local-Cell-Group-InformationItem-
Power-Local-Cell-Group-InformationItem-Resour power-Local-Cell-Group-ID maximumDL-PowerCapability iE-Extensions OPTIONAL,  }	cceStatusInd::= SEQUENCE { Local-Cell-ID, MaximumDL-PowerCapability, ProtocolExtensionContainer	{ { Power-Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs} }
Power-Local-Cell-Group-InformationItem-Resour	cceStatusInd-ExtIEs NBAP-PROTOCO	<u>DL-EXTENSION ::= {</u>
ServiceImpacting-ResourceStatusInd ::= SEQUEN local-Cell-InformationList L local-Cell-Group-InformationList L cCP-InformationList C cell-InformationList C iE-Extensions P	ICE { Local-Cell-InformationList2-Reso Local-Cell-Group-InformationList ICP-InformationList-ResourceSta Cell-InformationList-ResourceSta ProtocolExtensionContainer { {	DurceStatusInd OPTIONAL, t2-ResourceStatusInd OPTIONAL, tusInd OPTIONAL, atusInd OPTIONAL, ServiceImpactingItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
<pre> } ConvigoTypostingItem DecourseCtatuated Evilles</pre>	NDAD DEOTOGOL EVTENDION ··- (	
{ ID id-Power-Local-Cell-Group-Informa InformationList2-ResourceStatusInd PRESE	<pre>s NBAP-PROTOCOL-EXTENSION ··· = { ationList2-ResourceStatusInd NCE optional },</pre>	CRITICALITY ignore EXTENSION Power-Local-Cell-Group-
}		
Local-Cell-InformationList2-ResourceStatusInd InformationItemIE2-ResourceStatusInd }}	d ::= SEQUENCE(SIZE (1maxLoca)	LCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-
Local-Cell-InformationItemIE2-ResourceStatusI { ID id-Local-Cell-InformationItem2-Resou mandatory } }	Ind NBAP-PROTOCOL-IES ::= { arceStatusInd CRITICALITY igno	ore TYPE Local-Cell-InformationItem2-ResourceStatusInd PRESENCE
Local-Cell-InformationItem2-ResourceStatusInd local-Cell-ID L dl-or-global-capacityCredit D ul-capacityCredit U commnonChannelsCapacityConsumptionLaw dedicatedChannelsCapacityConsumptionLaw maximum-DL-PowerCapability M minSpreadingFactor M minimumDL-PowerCapability M	d ::= SEQUENCE { Local-Cell-ID, DL-or-Global-CapacityCredit IL-CapacityCredit CommonChannelsCapacityConsur DedicatedChannelsCapacityCon MaximumDL-PowerCapability MinSpreadingFactor MinimumDL-PowerCapability	OPTIONAL, OPTIONAL, mptionLaw OPTIONAL, nsumptionLaw OPTIONAL, OPTIONAL, OPTIONAL, OPTIONAL,

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iE-Extensions	ProtocolExtensionCont	ainer { { Local-Cell-D	informationItem2-ResourceStatusInd	-ExtIEs} } OPTIONAL,
}				
Local-Cell-InformationItem2-ResourceStatus { ID id-ReferenceClockAvailability { ID id-Power-Local-Cell-Group-ID	Ind-ExtIES NBAP-PROTOCOL CRITICALITY i CRITICALITY i	L-EXTENSION ::= { gnore EXTENSI gnore EXTENSI	ON ReferenceClockAvailability ON Local-Cell-ID	<pre>PRESENCE optional }, PRESENCE optional },</pre>
}				
Local-Cell-Group-InformationList2-Resource InformationItemIE2-ResourceStatusInd }}	StatusInd ::= SEQUENCE()	SIZE (1maxLocalCelli	nNodeB)) OF ProtocolIE-Single-Con	tainer {{ Local-Cell-Group-
<pre>Local-Cell-Group-InformationItemIE2-Resour     { ID id-Local-Cell-Group-InformationIt     PRESENCE mandatory } }</pre>	ceStatusInd NBAP-PROTOC em2-ResourceStatusInd	OL-IES ::= { CRITICALITY ignore	TYPE Local-Cell-Group-Information	nItem2-ResourceStatusInd
Local-Cell-Group-InformationItem2-Resource local-Cell-Group-ID dl-or-global-capacityCredit ul-capacityCredit commnonChannelsCapacityConsumptionLaw dedicatedChannelsCapacityConsumptionLa iE-Extensions	<pre>StatusInd ::= SEQUENCE Local-Cell-ID, DL-or-Global-Capacity UL-CapacityCredit CommonChannelsCap W DedicatedChannels ProtocolExtensionCont</pre>	{ Credit OPTIONAL, OPTIONAL, acityConsumptionLaw CapacityConsumptionLaw ainer { { Local-Cell-C	OPTIONAL, OPTIONAL, Group-InformationItem2-ResourceSta	tusInd-ExtIEs} } OPTIONAL,
}				
Local-Cell-Group-InformationItem2-Resource	StatusInd-ExtIEs NBAP-P	ROTOCOL-EXTENSION ::=	{	
}				
Power-Local-Cell-Group-InformationList2-Re Cell-Group-InformationItemIE2-ResourceStat	<pre>sourceStatusInd ::= SEQ usInd }}</pre>	UENCE(SIZE (1maxLoca	lCellinNodeB)) OF ProtocolIE-Sing	le-Container {{ Power-Local-
Power-Local-Cell-Group-InformationItemIE2-           { ID id-Power-Local-Cell-Group-Info           ResourceStatusInd         PRESENCE mandat           }	<pre>ResourceStatusInd NBAP- rmationItem2-ResourceSt ory }</pre>	PROTOCOL-IES ::= { atusInd CRITICALITY	ignore TYPE Power-Local-Cell-Gro	oup-InformationItem2-
Power-Local-Cell-Group-InformationItem2-Re power-Local-Cell-Group-ID maximumDL-PowerCapability iE-Extensions	sourceStatusInd::= SEQU Local-Cell-ID, MaximumDL-PowerCa ProtocolExtension	ENCE { pability, Container { { Power-Lo	cal-Cell-Group-InformationItem2-R	esourceStatusInd-ExtIEs} }
$\left  \frac{\frac{\text{OPTIONAL}}{\dots}}{\frac{1}{2}} \right $				
Power-Local-Cell-Group-InformationItem2-Re 	sourceStatusInd-ExtIEs	NBAP-PROTOCOL-EXTENSIC	$N ::= {$	
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```
ResourceStatusInd }}
CCP-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-CCP-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE CCP-InformationItem-ResourceStatusInd
                                                                                                                        PRESENCE mandatory }
}
CCP-InformationItem-ResourceStatusInd ::= SEOUENCE {
    communicationControlPortID
                                            CommunicationControlPortID,
    resourceOperationalState
                                            ResourceOperationalState,
    availabilityStatus
                                            AvailabilityStatus,
                                            ProtocolExtensionContainer { { CCP-InformationItem-ResourceStatusInd-ExtIEs } }
    iE-Extensions
                                                                                                                                OPTIONAL,
    . . .
CCP-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Cell-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ Cell-InformationItemIE-
ResourceStatusInd }}
Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Cell-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Cell-InformationItem-ResourceStatusInd PRESENCE mandatory }
Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
    c-ID
                                            C-ID.
    resourceOperationalState
                                            ResourceOperationalState
                                                                                             OPTIONAL,
    availabilityStatus
                                            AvailabilityStatus
                                                                                             OPTIONAL,
    primary-SCH-Information
                                            P-SCH-Information-ResourceStatusInd
                                                                                             OPTIONAL, --FDD only
                                                                                             OPTIONAL, --FDD only
    secondary-SCH-Information
                                            S-SCH-Information-ResourceStatusInd
    primary-CPICH-Information
                                            P-CPICH-Information-ResourceStatusInd
                                                                                             OPTIONAL, --FDD only
                                                                                             OPTIONAL, --FDD only
    secondary-CPICH-Information
                                            S-CPICH-InformationList-ResourceStatusInd
    primary-CCPCH-Information
                                            P-CCPCH-Information-ResourceStatusInd
                                                                                             OPTIONAL,
    bCH-Information
                                            BCH-Information-ResourceStatusInd
                                                                                             OPTIONAL,
    secondary-CCPCH-InformationList
                                            S-CCPCH-InformationList-ResourceStatusInd
                                                                                             OPTIONAL,
    pCH-Information
                                            PCH-Information-ResourceStatusInd
                                                                                             OPTIONAL,
    pICH-Information
                                            PICH-Information-ResourceStatusInd
                                                                                             OPTIONAL,
    fACH-InformationList
                                            FACH-InformationList-ResourceStatusInd
                                                                                             OPTIONAL,
    pRACH-InformationList
                                            PRACH-InformationList-ResourceStatusInd
                                                                                             OPTIONAL,
    rACH-InformationList
                                            RACH-InformationList-ResourceStatusInd
                                                                                             OPTIONAL,
                                                                                             OPTIONAL, --FDD only
    aICH-InformationList
                                            AICH-InformationList-ResourceStatusInd
    pCPCH-InformationList
                                            PCPCH-InformationList-ResourceStatusInd
                                                                                             OPTIONAL, --FDD only
                                                                                             OPTIONAL, --FDD only
    cPCH-InformationList
                                            CPCH-InformationList-ResourceStatusInd
    aP-AICH-InformationList
                                            AP-AICH-InformationList-ResourceStatusInd
                                                                                             OPTIONAL, --FDD only
    cDCA-ICH-InformationList
                                            CDCA-ICH-InformationList-ResourceStatusInd
                                                                                             OPTIONAL, --FDD only
                                                                                             OPTIONAL, --3.84Mcps TDD only
    sCH-Information
                                            SCH-Information-ResourceStatusInd
                                            ProtocolExtensionContainer { { Cell-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
```

CCP-InformationList-ResourceStatusInd ::= SEOUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Single-Container {{ CCP-InformationItemIE-

Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

. . .

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```
}
P-SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-SCH-InformationIE-ResourceStatusInd }}
P-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-P-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
S-SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ S-SCH-InformationIE-ResourceStatusInd }}
S-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-S-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
P-CPICH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-CPICH-InformationIE-ResourceStatusInd }}
P-CPICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-P-CPICH-Information CRITICALITY ignore
                                                     TYPE Common-PhysicalChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
}
S-CPICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container {{ S-CPICH-InformationItemIE-
ResourceStatusInd }}
S-CPICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-S-CPICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
P-CCPCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-CCPCH-InformationIE-ResourceStatusInd }}
P-CCPCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-P-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
}
BCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ BCH-InformationIE-ResourceStatusInd }}
BCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-BCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
S-CCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-
ResourceStatusInd }}
S-CCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-S-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
PCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ PCH-InformationIE-ResourceStatusInd }}
PCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information
                                                                                                                     PRESENCE mandatory }
```

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PICH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ PICH-InformationIE-ResourceStatusInd }} PICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-PICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } } FACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Single-Container {{ FACH-InformationItemIE-ResourceStatusInd }} FACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-FACH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory } } PRACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-InformationItemIE-ResourceStatusInd }} PRACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-PRACH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } } RACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ RACH-InformationItemIE-ResourceStatusInd }} RACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-RACH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory } AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ AICH-InformationItemIE-ResourceStatusInd }} AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-AICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } } PCPCH-InformationList-ResourceStatusInd ::= SEOUENCE (SIZE (1..maxPCPCHCell)) OF ProtocolIE-Single-Container {{ PCPCH-InformationItemIE-ResourceStatusInd }} PCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-PCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE optional } CPCH-InformationList-ResourceStatusInd ::= SEOUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ CPCH-InformationItemIE-ResourceStatusInd }} CPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-CPCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE optional } } AP-AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ AP-AICH-InformationItemIE-ResourceStatusInd }} AP-AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-AP-AICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE optional }

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} CDCA-ICH-InformationList-ResourceStatusInd ::= SEOUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ CDCA-ICH-InformationItemIE-ResourceStatusInd }} CDCA-ICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-CDCA-ICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE optional } } SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ SCH-InformationIE-ResourceStatusInd }} SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } FPACH-LCR-InformationList-ResourceStatusInd ::= SEOUENCE (SIZE (0..maxFPACHCell)) OF ProtocolIE-Single-Container {{ FPACH-LCR-InformationItemIE-ResourceStatusInd }} FPACH-LCR-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-FPACH-LCR-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } } DwPCH-LCR-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ DwPCH-LCR-InformationIE-ResourceStatusInd }} DwPCH-LCR-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= { { ID id-DwPCH-LCR-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory } }

UNCHANGED TEXT IS OMITTED

## 9.3.6 Constant Definitions

#### UNCHANGED TEXT IS OMITTED

************************************	
IES	
**********************************	
id-AICH-Information	ProtocolIE-ID ::= 0
id-AICH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 1
id-BCH-Information	ProtocolIE-ID ::= 7
id-BCH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 8
id-BCCH-ModificationTime	ProtocolIE-ID ::= 9
id-BlockingPriorityIndicator	ProtocolIE-ID ::= 10
id-Cause	ProtocolIE-ID ::= 13
id-CCP-InformationItem-AuditRsp	ProtocolIE-ID ::= 14
id-CCP-InformationList-AuditRsp	ProtocolIE-ID ::= 15
id-CCP-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 16
id-Cell-InformationItem-AuditRsp	ProtocolIE-ID ::= 17
id-Cell-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 18
id-Cell-InformationList-AuditRsp	ProtocolIE-ID ::= 19
id-CellParameterID	ProtocollE-ID ::= 23
1d-CFN	ProtocollE-ID ::= 24
1d-C-ID	ProtocollE-ID ::= 25
10-CommonMeasurementAccuracy	ProtocollE-ID ::= 39
id CommonMeasurementObjectType-CM-Rprt	ProtocollE-ID ::= 31
id CommonMeasurementObjectType-CM-Rqst	Protocolle-ID ··= 32
id CommonMeasurementObjectType-CM-Rsp	Protocolle-ID ··= 33
id CommonDhugigalChannelID	ProtocollE-ID ··= 34
id-CommonDhygigalChannelType-CTCU-SetupPagtEDD	ProtocoliE-ID ··= 35
id-CommonDhygigalChannelType-CICH-SetupRqstFDD	ProtocoliE-ID ··= 30
id_CommunicationControlPortID	ProtocoliE-ID ··- 37
id-ConfigurationConcretionID	ProtocolIE-ID ::= 43
id_CRNC_CommunicationContextID	ProtocolIE-ID ::= 44
id-CriticalityDiagnostics	ProtocolIE-ID ::= 45
id-DCHs-to-Add-FDD	ProtocolIE-ID := 48
id-DCH-AddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 49
id-DCHs-to-Add-TDD	ProtocolIE-ID ::= 50
id-DCH-DeleteList-RL-ReconfPrepFDD	ProtocolIE-ID ::= 52
id-DCH-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 53
id-DCH-DeleteList-RL-ReconfRqstFDD	ProtocolIE-ID ::= 54
id-DCH-DeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 55
id-DCH-FDD-Information	ProtocolIE-ID ::= 56
id-DCH-TDD-Information	ProtocolIE-ID ::= 57
id-DCH-InformationResponse	ProtocolIE-ID ::= 59
id-FDD-DCHs-to-Modify	ProtocolIE-ID ::= 62
id-TDD-DCHs-to-Modify	ProtocolIE-ID ::= 63
id-DCH-ModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 65

id-DedicatedMeasurementObjectType-DM-Rprt	ProtocolIE-ID	::=	67
id-DedicatedMeasurementObjectType-DM-Rqst	ProtocolIE-ID	::=	68
id-DedicatedMeasurementObjectType-DM-Rsp	ProtocolIE-ID	::=	69
id-DedicatedMeasurementType	ProtocolIE-ID	::=	70
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD	ProtocolIE-ID	::=	72
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD	ProtocolIE-ID	::=	73
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID	::=	76
id-DL-DPCH-InformationItem-RL-AdditionRgstTDD	ProtocolIE-ID	::=	77
id-DL-DPCH-InformationList-RL-SetupRgstTDD	ProtocolIE-ID	::=	79
id-DL-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID	::=	81
id-DL-DPCH-Information-RL-ReconfRgsFFDD	ProtocolIE-ID	::=	82
id-DL-DPCH-Information-RL-SetupRgstFDD	ProtocolIE-ID	::=	83
id-DL-ReferencePowerInformationItem-DL-PC-Rgst	ProtocolIE-ID	::=	84
id-DLReferencePower	ProtocolIE-ID	::=	85
id-DLReferencePowerList-DL-PC-Rast	ProtocolIE-ID	::=	86
id-DSCH-AddItem-RL-ReconfPrepFDD	ProtocolIE-ID	::=	87
id-DSCHs-to-Add-FDD	ProtocolIE-ID	::=	89
id-DSCH-DeleteItem-RL-ReconfPrepFDD	ProtocolIE-ID	::=	91
id-DSCH-DeleteList-RL-ReconfPrepFDD	ProtocolIE-ID	::=	93
id-DSCHs-to-Add-TDD	ProtocolIE-ID	::=	96
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID	::=	98
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID	::=	100
id-DSCH-InformationResponse	ProtocolIE-ID	::=	105
id-DSCH-FDD-Information	ProtocolIE-ID		106
id-DSCH-TDD-Information	ProtocolIE ID		107
id-DSCH-ModifyItem-RL-ReconfDrenEDD	ProtocolIE ID		108
id-DSCH-ModifylictRL-ReconfPrepEDD	ProtocolIE ID		112
id-End-Of-Audit-Sequence-Indicator	ProtocolIE ID		113
id-FACH-Information	ProtocolIE ID		116
id-FACH-InformationItem-ResourceStatusInd	ProtocolIE-ID		117
id_FACH_DarametersList_CTCH_PacanfPactTDD	ProtocolIE ID		120
id-FACH-DarametersListIF-CTCH-SetupRastFDD	ProtocolIE ID		121
id_FACH_ParametersListIF_CTCH_SetupRestTDD	ProtocolIE-ID		121
id_IndigationTwp=PagourgeStatusInd	ProtocolIE ID		122
	ProtocolIE ID		123
id_Local_Coll_Croup_InformationItom_AuditEgn	ProtocolIE-ID		227
id Local Cell Crown InformationItem Descuracy	ProtocollE-ID		2
id-Local-Cell-Group-InformationItem2-ResourceStatusInd	ProtocollE-ID		1
id-Local-Cell-Group-InformationLigt-JuditPap	ProtocollE-ID		5
id Local Cell InformationIton AuditBen	Protocolle-ID		5 1 0 E
id Local Cell InformationItem DecourseStatuaInd	Protocolle-ID		125
id Local Cell InformationItem - ResourceStatusInd	Protocolle-ID		107
id Local Cell InformationLiem AuditBen	ProtocollE-ID	=	120
id Idiustrent Devied	ProtocollE-ID	=	120
1d-AdjustmentPeriod	ProtocollE-ID	=	129
1d-MaxAdjustmentStep	ProtocollE-ID	=	130
id-MaximumiransmissionPower	ProtocollE-ID	=	131
la-MeasurementFilterCoefficient	ProtocollE-ID	::=	132
id-MeasurementID	ProtocolIE-ID	::=	133
10-Messagestructure	ProtocollE-ID	::=	115
10-MIB-SB-SIB-INFORMATIONLIST-SystemInfoUpdateRqst	ProtocolIE-ID	::=	134
IQ-NOGEB-COMMUNICATIONCONTEXTID	ProtocollE-ID	· · =	143
id-NeighbouringCellMeasurementInformation	ProtocollE-ID	::=	455
1d-P-CCPCH-Information	ProtocolIE-ID	::=	144

#### id-P-CCPCH-InformationItem-ResourceStatusInd id-P-CPICH-Information id-P-CPICH-InformationItem-ResourceStatusInd id-P-SCH-Information id-PCCPCH-Information-Cell-ReconfRgstTDD id-PCCPCH-Information-Cell-SetupRgstTDD id-PCH-Parameters-CTCH-ReconfRgstTDD id-PCH-ParametersItem-CTCH-SetupRgstFDD id-PCH-ParametersItem-CTCH-SetupRgstTDD id-PCH-Information id-PDSCH-Information-AddListIE-PSCH-ReconfRqst id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst id-PDSCHSets-AddList-PSCH-ReconfRqst id-PDSCHSets-DeleteList-PSCH-ReconfRast id-PDSCHSets-ModifyList-PSCH-ReconfRqst id-PICH-Information id-PICH-Parameters-CTCH-ReconfRgstTDD id-PowerAdjustmentType id-PRACH-Information id-PrimaryCCPCH-Information-Cell-ReconfRgstFDD id-PrimaryCCPCH-Information-Cell-SetupRqstFDD id-PrimaryCPICH-Information-Cell-ReconfRqstFDD id-PrimaryCPICH-Information-Cell-SetupRqstFDD id-PrimarvSCH-Information-Cell-ReconfRgstFDD id-PrimarySCH-Information-Cell-SetupRgstFDD id-PrimaryScramblingCode id-SCH-Information-Cell-ReconfRqstTDD id-SCH-Information-Cell-SetupRqstTDD id-PUSCH-Information-AddListIE-PSCH-ReconfRqst id-PUSCH-Information-ModifyListIE-PSCH-ReconfRgst id-PUSCHSets-AddList-PSCH-ReconfRqst id-PUSCHSets-DeleteList-PSCH-ReconfRqst id-PUSCHSets-ModifyList-PSCH-ReconfRqst id-RACH-Information id-RACH-ParametersItem-CTCH-SetupRgstFDD id-RACH-ParameterItem-CTCH-SetupRqstTDD id-ReportCharacteristics id-Reporting-Object-RL-FailureInd id-Reporting-Object-RL-RestoreInd id-RL-InformationItem-DM-Rprt id-RL-InformationItem-DM-Rgst id-RL-InformationItem-DM-Rsp id-RL-InformationItem-RL-AdditionRqstFDD id-RL-informationItem-RL-DeletionRgst id-RL-InformationItem-RL-FailureInd id-RL-InformationItem-RL-PreemptRequiredInd id-RL-InformationItem-RL-ReconfPrepFDD id-RL-InformationItem-RL-ReconfRqstFDD id-RL-InformationItem-RL-RestoreInd id-RL-InformationItem-RL-SetupRqstFDD id-RL-InformationList-RL-AdditionRqstFDD id-RL-informationList-RL-DeletionRqst id-RL-InformationList-RL-PreemptRequiredInd

ProtocolIE-ID ::= 145

ProtocolIE-ID ::= 146

ProtocolIE-ID ::= 147

ProtocolIE-ID ::= 148

ProtocolTE-TD := 150

ProtocolIE-ID ::= 151

ProtocolIE-ID ::= 155

ProtocolIE-ID ::= 156

ProtocolIE-ID ::= 157

ProtocolIE-ID ::= 158

ProtocolIE-ID ::= 161

ProtocolIE-ID ::= 162

ProtocolIE-ID ::= 163

ProtocolIE-ID ::= 164

ProtocolIE-ID ::= 165

ProtocolIE-ID ::= 166

ProtocolIE-ID ::= 168 ProtocolIE-ID ::= 169

ProtocolIE-ID ::= 170

ProtocolIE-ID ::= 175

ProtocolTE-TD := 176

ProtocolIE-ID ::= 177

ProtocolIE-ID ::= 178

ProtocolIE-ID ::= 179

ProtocolIE-ID ::= 180

ProtocolIE-ID ::= 181

ProtocolIE-ID ::= 183

ProtocolIE-ID ::= 184

ProtocolIE-ID ::= 185

ProtocolIE-ID ::= 186

ProtocolIE-ID ::= 187

ProtocolIE-ID ::= 188

ProtocolIE-ID ::= 189 ProtocolIE-ID ::= 190

ProtocolIE-ID ::= 196

ProtocolIE-ID ::= 197

ProtocolIE-ID ::= 198

ProtocolIE-ID ::= 199

ProtocolIE-ID ::= 200

ProtocolIE-ID ::= 202

ProtocolIE-ID ::= 203

ProtocolTE-TD := 204

ProtocolIE-ID ::= 205

ProtocolIE-ID ::= 206

ProtocolIE-ID ::= 207

ProtocolIE-ID ::= 286

ProtocolIE-ID ::= 208

ProtocolIE-ID ::= 209

ProtocolIE-ID ::= 210

ProtocolIE-ID ::= 211

ProtocolIE-ID ::= 212

ProtocolIE-ID ::= 213

ProtocolIE-ID ::= 237

id-RL-InformationList-RL-ReconfPrepFDD	ProtocolIE-ID ::= 214
id-RL-InformationList-RL-ReconfRqstFDD	ProtocolIE-ID ::= 215
id-RL-InformationList-RL-SetupRqstFDD	ProtocolIE-ID ::= 216
id-RL-InformationResponseItem-RL-AdditionRspFDD	ProtocolIE-ID ::= 217
id-RL-InformationResponseItem-RL-ReconfReady	ProtocolIE-ID ::= 218
id-RL-InformationResponseItem-RL-ReconfRsp	ProtocolIE-ID ::= 219
id-RL-InformationResponseItem-RL-SetupRspFDD	ProtocolIE-ID ::= 220
id-RL-InformationResponseList-RL-AdditionRspFDD	ProtocolIE-ID ::= 221
id-RL-InformationResponseList-RL-ReconfReady	ProtocolIE-ID ::= 222
id-RL-InformationResponseList-RL-ReconfRsp	ProtocolIE-ID ::= 223
id-RL-InformationResponseList-RL-SetupRspFDD	ProtocolIE-ID ::= 224
id-RL-InformationResponse-RL-AdditionRspTDD	ProtocolIE-ID ::= 225
id-RL-InformationResponse-RL-SetupRspTDD	ProtocolIE-ID ::= 226
id-RL-Information-RL-AdditionRqstTDD	ProtocolIE-ID ::= 227
id-RL-Information-RL-ReconfRqstTDD	ProtocolIE-ID ::= 228
id-RL-Information-RL-ReconfPrepTDD	ProtocolIE-ID ::= 229
id-RL-Information-RL-SetupRgstTDD	ProtocolIE-ID ::= 230
id-RL-ReconfigurationFailureItem-RL-ReconfFailure	ProtocolIE-ID ::= 236
id-RL-Set-InformationItem-DM-Rprt	ProtocolIE-ID ::= 238
id-RL-Set-InformationItem-DM-Rsp	ProtocolIE-ID ::= 240
id-RL-Set-InformationItem-RL-FailureInd	ProtocolIE-ID ::= 241
id-RL-Set-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 242
id-S-CCPCH-Information	ProtocolIE-ID ::= 247
id-S-CPICH-Information	ProtocollE-ID := 249
id-SCH-Information	ProtocolIE-ID ::= 251
id-S-SCH-Information	ProtocolIE-ID ::= 253
id-Secondary-CCPCHListIE-CTCH-ReconfRgstTDD	ProtocolIE-ID ::= 257
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRgstTDD	ProtocolIE-ID ::= 258
id-Secondary-CCPCH-Parameters-CTCH-ReconfRostTDD	ProtocolIE-ID ::= 259
id-SecondaryCPICH-InformationItem-Cell-ReconfRostFDD	ProtocollE-ID ::= 260
id-SecondaryCPICH-InformationItem-Cell-SetupRostFDD	ProtocolIE-ID ::= 261
id-SecondaryCPICH-InformationList-Cell-ReconfRostFDD	ProtocolIE-ID ::= 262
id-SecondaryCPICH-InformationList-Cell-SetupRastFDD	ProtocolIE-ID ::= 263
id-SecondarySCH-Information-Cell-ReconfRastFDD	ProtocolIE-ID ::= 264
id-SecondarySCH-Information-Cell-SetupRastFDD	ProtocolIE-ID ::= 265
id-SegmentInformationListIE-SystemInfoUndate	ProtocolIE-ID ::= 266
id-SEN	ProtocolIE-ID ::= 268
id-ShutdownTimer	ProtocolIE ID := 269
id-Start-Of-Audit-Sequence-Indicator	ProtocolIE-ID ::= 114
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	ProtocolIE-ID ::= 270
id-Successful-RL-InformationRespicem RL-SetupFailureFDD	ProtocolIE-ID ::= 271
id-SyncCase	$\frac{1100000111}{271}$
id-SyncCaseIndicatorItem-Cell-SetupRastTDD-DSCH	ProtocolIE-ID ::= 275
id-T-Cell	ProtocolIE-ID ::= 276
id-TimeSlotConfigurationList-Cell-ReconfRastTDD	ProtocolIE-ID ::= 277
id-TimeSlotConfigurationList-Cell-SetupRastTDD	ProtocolIE-ID ::= 278
id-TransmissionDiversityApplied	ProtocolIE-ID ::= 279
id_TypeOfError	ProtocoliE ID ::= 508
id-HARECNforNt	ProtocolIE-ID : 280
id-HARFCNforNd	ProtocolIE-ID : 280
id-HARFCNforNu	ProtocolIE-ID : 282
id-IIICCTrCH-InformationItem-RL-SetupPastTDD	ProtocoliE-ID ··- 202
id_III_CCTrCU_InformationList_PL_AdditionPastTDD	ProtocoliE-ID ··- 204
TA-OP-CCITCH-INTOLWALIONPIRC-KP-AGGILIOUKdRCIDD	FIOLOCOIIE-ID ··= 282

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id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 288
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD	ProtocolIE-ID ::= 289
id-UL-DPCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 291
id-UL-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 293
id-UL-DPCH-Information-RL-ReconfRqstFDD	ProtocolIE-ID ::= 294
id-UL-DPCH-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 295
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD	ProtocolIE-ID ::= 296
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD	ProtocolIE-ID ::= 297
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD	ProtocolIE-ID ::= 300
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD	ProtocolIE-ID ::= 301
id-USCH-Information-Add	ProtocolIE-ID ::= 302
id-USCH-Information-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 304
id-USCH-Information-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 306
id-USCH-InformationResponse	ProtocolIE-ID ::= 309
id-USCH-Information	ProtocolIE-ID ::= 310
id-Active-Pattern-Sequence-Information	ProtocolIE-ID ::= 315
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 316
id-AdjustmentRatio	ProtocolIE-ID ::= 317
id-AP-AICH-Information	ProtocolIE-ID ::= 320
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 322
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 323
id-CauseLevel-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 324
id-CauseLevel-RL-AdditionFailureFDD	ProtocolIE-ID ::= 325
id-CauseLevel-RL-AdditionFailureTDD	ProtocolIE-ID ::= 326
id-CauseLevel-RL-ReconfFailure	ProtocolIE-ID ::= 327
id-CauseLevel-RL-SetupFailureFDD	ProtocolIE-ID ::= 328
id-CauseLevel-RL-SetupFailureTDD	ProtocolIE-ID ::= 329
id-CDCA-ICH-Information	ProtocolIE-ID ::= 330
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 332
id-Closed-Loop-Timing-Adjustment-Mode	ProtocolIE-ID ::= 333
id-CommonPhysicalChannelType-CTCH-ReconfRgstFDD	ProtocolIE-ID ::= 334
id-Compressed-Mode-Deactivation-Flag	ProtocolIE-ID ::= 335
id-CPCH-Information	ProtocolIE-ID ::= 336
id-CPCH-Parameters-CTCH-SetupRsp	ProtocolIE-ID ::= 342
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 343
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 346
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD	ProtocolIE-ID ::= 347
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 348
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD	ProtocolIE-ID ::= 349
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD	ProtocolIE-ID ::= 350
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 351
id-DL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD	ProtocolIE-ID ::= 352
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 353
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 355
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 356
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	ProtocolTE-TD := 357
id-DL-TPC-Pattern01Count	ProtocolTE-TD ::= 358
id-DPC-Mode	ProtocolTE-TD := 450
id-DPCHConstant	ProtocolTE-TD ::= 359
id-DSCH-FDD-Common-Information	ProtocolIE-ID ::= 94
id-EnhancedDSCHPC	$\frac{1}{2} \frac{1}{2} \frac{1}$
id-EnhancedDSCHPCIndicator	$\frac{1100000011E}{ProtocolTE-TD} ::= 111$
id-FACH-ParametersList-CTCH-SetupRep	ProtocoltE-ID ::= 362
TA THEM LATAMETER DIDE CICH DECAPIER	110000011H 1D ··- 302

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id-Limited-power-increase-information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 369
id-PCH-Parameters-CTCH-SetupRsp	ProtocolIE-ID ::= 374
id-PCH-ParametersItem-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 375
id-PCPCH-Information	ProtocolIE-ID ::= 376
id-PICH-ParametersItem-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 380
id-PRACHConstant	ProtocolIE-ID ::= 381
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 383
id-PUSCHConstant	ProtocolIE-ID ::= 384
id-RACH-Parameters-CTCH-SetupRsp	ProtocolIE-ID ::= 385
id-SSDT-CellIDforEDSCHPC	ProtocolIE-ID ::= 443
id-Synchronisation-Configuration-Cell-ReconfRqst	ProtocolIE-ID ::= 393
id-Synchronisation-Configuration-Cell-SetupRqst	ProtocolIE-ID ::= 394
id-Transmission-Gap-Pattern-Sequence-Information	ProtocolIE-ID ::= 395
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 396
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 397
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 398
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 399
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 400
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 401
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 402
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 403
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 405
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 406
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 407
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 408
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 409
id-CommunicationContextInfoItem-Reset	ProtocolIE-ID ::= 412
id-CommunicationControlPortInfoItem-Reset	ProtocolIE-ID ::= 414
id-ResetIndicator	ProtocolIE-ID ::= 416
id-TFCI2-Bearer-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 417
id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD	ProtocolIE-ID ::= 418
id-TFCI2-BearerInformationResponse	ProtocolIE-ID ::= 419
id-TimingAdvanceApplied	ProtocolIE-ID ::= 287
id-CFNReportingIndicator	ProtocolIE-ID ::= 6
id-SFNReportingIndicator	ProtocolIE-ID ::= 11
id-InnerLoopDLPCStatus	ProtocolIE-ID ::= 12
id-TimeslotISCPInfo	ProtocolIE-ID ::= 283
id-PICH-ParametersItem-CTCH-SetupRostTDD	ProtocolIE-ID := 167
id-PRACH-ParametersItem-CTCH-SetupRgstTDD	ProtocolIE-ID := 20
id-CCTrCH-InformationItem-RL-FailureInd	ProtocolIE-ID := 46
id-CCTrCH-InformationItem-RL-RestoreInd	ProtocolIE-ID := 47
id-CauseLevel-SyncAdjustmntFajlureTDD	ProtocolIE-ID := 420
id-CellAdjustmentInfo-SyncAdjustmntRastTDD	ProtocolIE-ID ::= 421
id-CellAdjustmentInfoItem-SyncAdjustmentRastTDD	ProtocolIE ID ::= 494
id-CellSymcBurstInfoList-CellSyncBeconfRastTDD	ProtocolIE ID ::= 482
id_CellSymcBurstTrangInit_CellSymcTnitiationPagtTDD	ProtocollE-ID ::= 422
id_CellSymcBurstMeasureInit_CellSymcInitiationRqstTDD	ProtocoliE-ID ··- 422
id_CellSyncBurstTrangPegonfiguration_CellSyncBurgEConfDegtTDD	ProtocollE_ID ··- 423
id_CellSyncBurstMessDegonfiguration_CellSyncReContRqStIDD	ProtocollE-ID ··= 424
id_CellSyncBurstTrangInfoList_CellSyncBegonfBastTDD	ProtocoliE-ID ··- 425
id_CellSymcBurstMassInfoList_CellSymcBosonfBastTOD	ProtocolTE-ID ··= 420
id_CellSyncBurgtTrangDegonfInfo_CellSyncRecontDggtTDD	ProtocolTE-ID ··= 427
id CallermaInfo CallermaDenetTDD	Protocolle-ID ··= 428
TG-CETTPAUGTUTO-CETTPAUGKEBLUIDD	ProtocollE-ID ::= 429

id-CSBTransmissionID	ProtocolIE-ID	::=	430
id-CSBMeasurementID	ProtocolIE-ID	::=	431
id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD	ProtocolIE-ID	::=	432
id-NCyclesPerSFNperiod	ProtocolIE-ID	::=	433
id-NRepetitionsPerCyclePeriod	ProtocolIE-ID	::=	434
id-SyncFrameNumber	ProtocolIE-ID	::=	437
id-SynchronisationReportType	ProtocolIE-ID	::=	438
id-SynchronisationReportCharacteristics	ProtocolIE-ID	::=	439
id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD	ProtocolIE-ID	::=	440
id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD	ProtocolIE-ID	::=	119
id-ReferenceClockAvailability	ProtocolIE-ID	::=	435
id-ReferenceSFNoffset	ProtocolIE-ID	::=	436
id-InformationExchangeID	ProtocolIE-ID	::=	444
id-InformationExchangeObjectType-InfEx-Rqst	ProtocolIE-ID	::=	445
id-InformationType	ProtocolIE-ID	::=	446
id-InformationReportCharacteristics	ProtocolIE-ID	::=	447
id-InformationExchangeObjectType-InfEx-Rsp	ProtocolIE-ID	::=	448
id-InformationExchangeObjectType-InfEx-Rprt	ProtocolIE-ID	::=	449
id-IPDLParameter-Information-Cell-ReconfRostFDD	ProtocolIE-ID	::=	451
id-IPDLParameter-Information-Cell-SetupRgstFDD	ProtocolIE-ID	::=	452
id-IPDLParameter-Information-Cell-ReconfrastTDD	ProtocolIE-ID	::=	453
id-IPDLParameter-Information-Cell-SetupRgstTDD	ProtocolIE-ID	::=	454
id-DL-DPCH-LCR-Information-RL-SetupRgstTDD	ProtocolIE-ID	::=	74
id-DL-DPCH-LCR-InformationList-RL-SetupRastTDD	ProtocolIE-ID	::=	75
id-DwPCH-LCR-Information	ProtocolIE-ID	::=	78
id_DwDCH_LCP_Information_AuditEsp	ProtocolIE-ID		80
id_DwDCH_LCP_InformationList_LuditEsp	ProtocolIE-ID	::=	90
id_DwDCH_LCP_Information_Cell_setupPgstTDD	ProtocolIE ID		97
id_DwpCH_LCP_Information_Cell_BecaptgstDD	ProtocolIE-ID		97
id_DwDCH_LCP_Information_DecurrecoltatusInd	ProtocolIE ID		101
id_maxFACH_Dower_ICP_CTCH_SetupDestTDD	ProtocolIE-ID		154
id maxFACH FOWELLOR CICH SecondBactTDD	ProtocolIE-ID		17/
id-EDIGU ICP_INFORMET - ICA-CIEN-RECONTRASCIDD	ProtocollE-ID		200
id EDGU LCP Information AuditEgen	ProtocollE-ID		290
id EDGU LCP Information ist AuditEsp	ProtocollE-ID		292
	ProtocollE-ID	=	31U 311
Id-FPACH_LCK-INFORMATIONISTERESOURCEStatusInd	ProtocollE-ID	=	311
Id-FPACH-LCK-Parameters-CICH-SetupAgtup	ProtocollE-ID	=	312
Id-FPACH-LCK-Parametersitem-CICH-SetupAgstIDD	ProtocollE-ID	=	313 214
id PCCPUL CR Information Coll Comparison	ProtocollE-ID	=	314
	ProtocollE-ID	••=	450
1d-PCH-POWER-LCR-CTCH-SetupRgstTDD	ProtocollE-ID	••=	45/
1d-PCH-Power-LCR-CTCH-RecontRqstTDD	ProtocollE-ID	::=	458
1d-PICH-LCR-Parameters-CTCH-SetupRqstTDD	ProtocollE-ID	::=	459
1d-PICH-LCR-ParametersItem-CTCH-SetupRqstTDD	ProtocollE-ID	::=	460
1d-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD	ProtocolIE-ID	::=	461
Id-PRACH-LCR-ParametersListle-CTCH-SetupRqstTDD	ProtocolIE-ID	::=	462
id-RL-InformationResponse-LCR-RL-SetupRspTDD	ProtocolIE-ID	::=	463
id-Secondary-CCPCH-LCR-parameterListIE-CTCH-SetupRqstTDD	ProtocolIE-ID	::=	464
1d-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD	ProtocolIE-ID	::=	465
id-TimeSlot	ProtocolIE-ID	::=	495
id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD	ProtocolIE-ID	::=	466
id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD	ProtocolIE-ID	::=	467
id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD	ProtocolIE-ID	::=	468

id-TimeSlotLCR-CM-Rqst	ProtocolIE-ID	::=	469
id-UL-DPCH-LCR-Information-RL-SetupRqstTDD	ProtocolIE-ID	::=	470
id-UL-DPCH-LCR-InformationList-RL-SetupRqstTDD	ProtocolIE-ID	::=	471
id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD	ProtocolIE-ID	::=	472
id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD	ProtocolIE-ID	::=	473
id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD	ProtocolIE-ID	::=	474
id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID	::=	475
id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID	::=	476
id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD	ProtocolIE-ID	::=	477
id-DL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID	::=	478
id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID	::=	479
id-TimeslotISCPInfoList-LCR-DL-PC-RgstTDD	ProtocolIE-ID	::=	480
id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID	::=	481
id-UL-DPCH-LCR-InformationModify-AddList	ProtocolIE-ID	::=	483
id-UL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID	::=	484
id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD	ProtocolIE-ID	::=	485
id-UL-SIRTarget	ProtocolIE-ID	::=	510
id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID	::=	486
id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID	::=	487
id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID	::=	488
id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID	::=	489
id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID	::=	490
id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID	::=	491
id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID	::=	492
id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID	::=	493
id-timeslotInfo-CellSyncInitiationRqstTDD	ProtocolIE-ID	::=	496
id-SyncReportType-CellSyncReprtTDD	ProtocolIE-ID	::=	497
id-Power-Local-Cell-Group-InformationItem-AuditRsp	ProtocolIE-ID	::=	498
id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd	ProtocolIE-ID	::=	499
id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd	ProtocolIE-ID	::=	500
id-Power-Local-Cell-Group-InformationList-AuditRsp	ProtocolIE-ID	::=	501
id-Power-Local-Cell-Group-InformationList-ResourceStatusInd	ProtocolIE-ID	::=	502
id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd	ProtocolIE-ID	::=	503
id-Power-Local-Cell-Group-ID	ProtocolIE-ID	::=	504
id-PUSCH-Info-DM-Rqst	ProtocolIE-ID	::=	505
id-PUSCH-Info-DM-Rsp	ProtocolIE-ID	::=	506
id-PUSCH-Info-DM-Rprt	ProtocolIE-ID	::=	507
id-InitDL-Power	ProtocolIE-ID	::=	509
id-cellSyncBurstRepetitionPeriod	ProtocolIE-ID	::=	511
id-ReportCharacteristicsType-OnModification	ProtocolIE-ID	::=	512
id-SFNSFNMeasurementValueInformation	ProtocolIE-ID	::=	513
id-SFNSFNMeasurementThresholdInformation	ProtocolIE-ID	::=	514
id-TUTRANGPSMeasurementValueInformation	ProtocolIE-ID	::=	515
id-TUTRANGPSMeasurementThresholdInformation	ProtocolIE-ID	::=	516
id-Rx-Timing-Deviation-Value-LCR	ProtocolIE-ID	::=	520
id-RL-InformationResponse-LCR-RL-AdditionRspTDD	ProtocolIE-ID	::=	51

END

# 3GPP TSG-RAN3 Meeting #27 Orlando, Florida, USA, 18th – 22nd February 2002

# Tdoc R3-020750

	CHANGE REQUEST								
ж	25	<mark>.433</mark>	CR <mark>496</mark>	жrе	v <mark>4</mark>	ж (	Current vers	^{ion:} <b>4.3.0</b>	ж
For <u>HELP</u> on u	sing	this forı	n, see bottom o	of this page	or look	at the	pop-up text	over the X sy	mbols.
Proposed change a	affec	ts: ¥	(U)SIM	ME/UE	Rad	io Acc	ess Network	Core N	etwork
Title: ¥	Pov pro	wer Bal cedure	ancing Activati s in NBAP	on with Rad	dio Link S	Setup	and Radio L	ink Addition	
Source: ೫	R-V	NG3							
Work item code: ೫	TE	I					Date: ೫	2002-Febru	ary
Category: Ж	C Use Deta be fo	one of th <b>F</b> (corre <b>A</b> (corre <b>B</b> (addi <b>C</b> (func <b>D</b> (edited bund in 3	he following cate ection) esponds to a cor ition of feature), ctional modification lanations of the a GPP <u>TR 21.900</u>	gories: rrection in ar on of feature ) above categ	n earlier re ) ories can	elease)	Release: <b>%</b> Use <u>one</u> of 2 R96 R97 R98 R99 REL-4 REL-5	REL5 the following re (GSM Phase 2 (Release 1996 (Release 1997 (Release 1999 (Release 4) (Release 5)	leases: ) ) ) )
<b>Reason for change:</b> # When adding new RL to an active set of a particular UE and power balancing is already activated in existing RL, the power of new RL may diverge in the duration between the timing of activation of inner loop power control for new RL and the timing of activation of Power Balancing for new RL. As a result, new RL may be lost or interference in the cell where new RL is established may increase.									
Summary of chang	<b>е:</b> Ж	<u>Rev. 4</u>							
		Identifi	ers were alloca	ated.					
		- It v Re SE	was clarified the equest messag TUP/ADDITIO	at power ba e if "activati N REQUES	alancing ion of po ST mess	is activ wer ba age" is	vated by RL alancing by t s supported	Setup/Additio the RADIO LIN (highlighted in	n VK <mark>1 blue</mark> ).
		ali	gned with the t	ext describ	ed in RL	Setup	procedure	( <mark>highlighted in</mark>	vas vellow).
		Rev. 2 The de (highlic	escription abour ghted in light bl	t Initial DL ⁻ ue).	TX powe	r was a	aligned with	the latest spe	cification
		<u>Rev. 1</u>							
		- Th	e following cla	rifications w	vere mac	le.			
		>	Initial DL TX Information message if	( power will IE is includ this function	start to led in the nality is s	vary w RADI suppor	then the <i>DL</i> O LINK SET ted by the D	Power Baland TUP REQUES DRNS.	sing ST
		۶	Power Bala	ncing IEs s	hall be u	sed wl	hen activatir	ng the power t	balancing.
		À	When the D start at the s in the RADI power level	L transmiss same CFN, O LINK SE on each DI	sion and the initia TUP RE L channe	the ac al DL tr QUES elisatio	ctivation of th ransmission T message n code of a	pe power bala power level s or the decided RL should be	ncing pecified d DL TX used as

	an initial power of the power balancing.								
	If the Power Balancing has been started as "Common", a common reference power shall be used in all the current and future RL(s).								
	DL Power Balancing Support Indicator was renamed to DL Power Balancing Activation Indicator and the presence of this IE was changed from mandatory to optional. This IE indicates that the power balancing is activated in the RL. This IE was also added to the RADIO LINK ADDITION RESPONSE and RADIO LINK SETUP/ADDITION FAILURE.								
	- The text for DL Power Balancing Activation Indicator was added.								
	- In the RADIO LINK ADDITION REQUEST message, the <i>DL Reference Power</i> Information IE was deleted. Instead, the <i>DL Reference Power</i> IE was added in the <i>RL Information</i> IE.								
	- In the RL Addition procedure, abnormal conditions were added and new case value was also introduced.								
	- ASN.1 was modified accordingly.								
	<u>Rev. 0</u>								
	Power Balancing IEs are added to RADIO LINK SETUP/ADDITION REQUEST messages and RADIO LINK SETUP/ADDITION REQUEST messages can be trigger of initiating power balancing.								
Consequences if \$ not approved:	If this CR is not approved, DL power of the additional RL might diverge. As a result, the additional RL may be lost or interference in the cell where new RL is established will increase.								
	Impact Analysis:								
	Impact assessment towards the previous version of the specification (same release):								
	No previous version.								
	Compatibility Analysis towards previous release:								
	No impact.								
Clauses affected:	8.2.17.2, 8.3.1.2, 8.3.1.3, 8.3.1.4, 9.1.36.1, 9.1.37.1, 9.1.38.1, 9.1.39.1, 9.1.40.1, 9.1.41.1, 9.2.1.6, 9.2.2.x, 9.3.3, 9.3.4 and 9.3.6								
Other specs affected:	CR433 on TS 25.423 V4.3.0 (REL-4) Test specifications O&M Specifications								

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

ж

Other comments:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G_Specs/CRs.htm</u>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

## 8.2.17 Radio Link Setup

## 8.2.17.1 General

This procedure is used for establishing the necessary resources for a new Node B Communication Context in the Node B.

[FDD – The RL Setup procedure is used to establish one or more radio links. The procedure establishes one or more DCHs on all radio links, and in addition, it can include the establishment of one or more DSCHs on one radio link.]

[TDD – The RL Setup procedure is used for establish one radio link including one or more transport channels. The transport channels can be a mixture of DCHs, DSCHs, and USCHs, including also combinations where one or more transport channel types are not present.]

## 8.2.17.2 Successful Operation



### Figure 24: Radio Link Setup procedure, Successful Operation

The procedure is initiated with a RADIO LINK SETUP REQUEST message sent from the CRNC to Node B.

Upon reception of RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

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

### **Transport Channels Handling:**

#### DCH(s):

[TDD – If the *DCH Information* IE is present, the Node B shall configure the new DCH(s) according to the parameters given in the message.]

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs then, the Node B shall treat the DCHs in the *DCH Information* IE as a set of coordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

[FDD – For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [16]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16].]

For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [16]. [FDD - If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [16]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used for the QE, ref. [16]].

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

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

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

The received *Frame Handling Priority* IE specified for each Transport Channel should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new RL(s) has been activated.

[FDD – The *Diversity Control Field* IE indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not. If the *Diversity Control Field* IE is set to "May", then Node B shall decide for either of the alternatives. If the *Diversity Control Field* IE is set to "Must", the Node B shall combine the RL with one of the other RL. Diversity combining is applied to Dedicated Transport Channels (DCH), i.e. it is not applied to the DSCHs. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with. If the *Diversity Control Field* IE is set to "Must not", the Node B shall not combine the RL with any other existing RL.]

[FDD – In the RADIO LINK SETUP RESPONSE message the Node B shall indicate with the *Diversity Indication* IE whether the RL is combined or not. In case of combining, only the *Reference RL ID* IE shall be included to indicate one of the existing RLs that the concerned RL is combined with. In case of not combining the Node B shall include in the RL SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.]

[TDD – The Node B shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.]

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

### DSCH(s):

If the *DSCH Information* IE is present, the Node B shall configure the new DSCH(s) according to the parameters given in the message.

[FDD – If the RADIO LINK SETUP REQUEST message includes the *TFCI2 Bearer Information* IE then the Node B shall support the establishment of a transport bearer on which the DSCH TFCI Signaling control frames shall be received. The Node B shall manage the time of arrival of these frames according to the values of ToAWS and ToAWE specified in the IE's. The *Binding ID* IE and *Transport Layer Address* IE for the new bearer to be set up for this purpose shall be returned in the RADIO LINK SETUP RESPONSE message.]

The Node B shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DSCH of this RL.

#### **[TDD – USCH(s)]:**

[TDD – If the *USCH Information* IE is present, the Node B shall configure the new USCH(s) according to the parameters given in the message.]

[TDD – In case the USCH Information IE is present, the Node B shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each USCH of this RL.]

#### **Physical Channels Handling:**

#### [FDD – Compressed Mode]:

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the Node B shall store the information about the Transmission Gap Pattern Sequences to be used in the Compressed Mode Configuration. This Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.] [FDD – If the *Downlink compressed mode method* IE in one or more Transmission Gap Pattern Sequence is set to 'SF/2' in the RADIO LINK SETUP REQUEST message, the Node B shall use or not the alternate scrambling code as indicated for each DL Channelisation Code in the *Transmission Gap Pattern* Sequence Code Information IE.]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern* Sequence Information IE and the Active Pattern Sequence Information IE, the Node B shall use the information to activate the indicated Transmission Gap Pattern Sequence(s) in the new RL. The received *CM Configuration Change CFN* refers to the latest passed CFN with that value The Node B shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the Node B shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the Node B shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD For all other Transmission Gap Pattern Sequences included in the *Active Pattern Sequence Information* IE, the Node B shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE for the Transmission Gap Pattern Sequence.]

### [FDD – DL Code Information]:

[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*".]

#### General:

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

[FDD – The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control.]

[1.28Mcps TDD – The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control according [19] and [21].]

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

[FDD – If the *TFCI Signalling Mode* IE within the RADIO LINK SETUP message indicates that there shall be a hard split on the TFCI field but the *TFCI2 Bearer Information* IE is not included in the message then the Node B shall transmit the TFCI2 field with zero power.]

[FDD - If the *TFCI Signalling Mode* IE within the RADIO LINK SETUP message indicates that there shall be a hard split on the TFCI and the *TFCI2 Bearer Information* IE is included in the message then the Node B shall transmit the TFCI2 field with zero power until Synchronization is achieved on the TFCI2 transport bearer and the first valid DSCH TFCI Signalling control frame is received on this bearer (see ref.[24]).]

#### **Radio Link Handling:**

#### [FDD – Transmit Diversity]:

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

#### **DL Power Control:**

[FDD – The Node B shall start the DL transmission using the initial DL power specified in the message on each DL DPCH of the RL until either UL synchronisation on the Uu is achieved for the RLS or **Power Balancing is activated**. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], subclause 5.2.1.2) and the power control procedure (see subclause 8.3.7), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message. During compressed mode, the  $P_{SIR}(k)$ , as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

[FDD - If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the Node B shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the life time of the RL. If the *DPC Mode* IE is not present in the RADIO LINK SETUP REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]]

[TDD – The Node B shall start the DL transmission using the initial DL power specified in the message on each DL DPCH and on each Time Slot of the RL until the UL synchronisation on the Uu is achieved for the RL. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22], subclause 4.2.3.3), but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.]

[TDD – If the [3.84Mcps TDD - *DL Time Slot ISCPInfo* IE] or [1.28Mcps TDD - *DL Timeslot ISCP LCR* IE] is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged].

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

[FDD – If the RADIO LINK SETUP REQUEST message includes the *DL Power Balancing Information* IE and the *Power Adjustment Type* IE is set to "Common" or "Individual", the Node B shall activate the power balancing, if activation of power balancing by the RADIO LINK SETUP REQUEST message is supported is supported, according to subclause 8.3.7, using the *DL Power Balancing Information* IE. If the Node B starts the DL transmission and the activation of the power balancing at the same CFN, the initial power of the power balancing shall be set to the indicated DL TX power level (if received) or the decided DL TX power level on each DL channelisation code of a RL.]

[FDD – If activation of power balancing by the RADIO LINK SETUP REQUEST message is supported by the Node B, the Node B shall include the *DL Power Balancing Activation Indicator* IE in the *RL Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

#### General:

[FDD – If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity IE and the S-Field Length E, the Node B shall activate SSDT, if supported, using the SSDT Cell Identity IE and SSDT Cell Identity Length IE.]

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *SSDT Cell Identity for EDSCHPC* IE, the Node B shall activate enhanced DSCH power control, if supported, using the *SSDT Cell Identity for EDSCHPC* IE and *SSDT Cell Identity Length* IE as well as *Enhanced DSCH PC* IE in accordance with ref. [10] subclause 5.2.2. If the RADIO LINK SETUP REQUEST message includes both *SSDT Cell Identity for EDSCHPC* IE, then the Node B shall ignore the value in *SSDT Cell Identity for EDSCHPC* IE]

#### [FDD – Radio Link Set Handling]:

[FDD – The *First RLS Indicator* IE indicates if the concerning RL shall be considered part of the first RLS established towards this UE. The *First RLS Indicator* IE shall be used by the Node B together with the value of the *DL TPC pattern 01 count* IE which the Node B has received in the Cell Setup procedure, to determine the initial

TPC pattern in the DL of the concerning RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.]

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

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

[FDD – The UL out-of-sync algorithm defined in [10] shall for each of the established RL Set(s) use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set]

#### **Response Message:**

If the RLs are successfully established, the Node B shall start reception on the new RL(s) and respond with a RADIO LINK SETUP RESPONSE message.

After sending of the RADIO LINK SETUP RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation on the Uu and start reception on the new RL. [FDD – The Node B shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in [16].] [TDD – The Node B shall start transmission on the new RL immediately as specified in [16].]

## 8.2.17.3 Unsuccessful Operation



### Figure 25: Radio Link Setup procedure: Unsuccessful Operation

If the establishment of at least one radio link is unsuccessful, the Node B shall respond with a RADIO LINK SETUP FAILURE message. The message contains the failure cause in the *Cause* IE.

[FDD – If some radio links were established successfully, the Node B shall indicate this in the RADIO LINK SETUP FAILURE message in the same way as in the RADIO LINK SETUP RESPONSE message.]

Typical cause values are as follows:

#### **Radio Network Layer Cause**

- Combining not supported
- Combining Resources not available
- Requested Tx Diversity Mode not supported
- Number of DL codes not supported
- Number of UL codes not supported
- UL SF not supported
- DL SF not supported
- Dedicated Transport Channel Type not supported

- Downlink Shared Channel Type not supported
- Uplink Shared Channel Type not supported
- CM not supported
- DPC mode change not supported

### **Transport Layer Cause**

- Transport Resources Unavailable

#### **Miscellaneous Cause**

- O&M Intervention
- Control processing overload
- HW failure

## 8.2.17.4 Abnormal Conditions

[FDD – If the RADIO LINK SETUP REQUEST message contains the *Active Pattern Sequence Information* IE, but the *Transmission Gap Pattern Sequence Information* IE is not present, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.]

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

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs, and if the DCHs in the *DCH Information* IE do not have the same *Transmission Time Interval* IE in the *Semistatic Transport Format Information* IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message

## <Not affected part is omitted>

## 8.3.1 Radio Link Addition

## 8.3.1.1 General

This procedure is used for establishing the necessary resources in the Node B for one or more additional RLs towards a UE when there is already a Node B communication context for this UE in the Node B.

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

## 8.3.1.2 Successful Operation



#### Figure: 28 Radio Link Addition procedure, Successful Operation

The procedure is initiated with a RADIO LINK ADDITION REQUEST message sent from the CRNC to the Node B.

Upon reception, the Node B 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 Node B shall prioritise resource allocation for the RL(s) to be established according to Annex A.

#### **Physical Channels Handling:**

[TDD – If the *UL DPCH Information* IE is present, the Node B shall configure the new UL DPCH(s) according to the parameters given in the message.]

[TDD – If the *DL DPCH Information* IE is present, the Node B shall configure the new DL DPCH(s) according to the parameters given in the message.]

#### [FDD – Compressed Mode]:

[FDD – If the RADIO LINK ADDITION REQUEST includes the *Compressed Mode Deactivation Flag* IE with value "Deactivate", the Node B shall not activate any compressed mode pattern in the new RLs. In all the other cases (Flag set to "Maintain Active" or not present), the ongoing compressed mode (if existing) shall be applied also to the added RLs.]

[FDD- If the RADIO LINK ADDITION REQUEST contains the *Transmission Gap Pattern Sequence Code Information* IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate scrambling code as indicated for each DL Channelisation Code for which the *Transmission Gap Pattern Sequence Code Information* IE is set to "Code Change".]

#### [FDD – DL Code Information]:

[FDD – When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to ref. [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*".]

#### [TDD – CCTrCH Handling]:

[TDD – If the *UL CCTrCH Information* IE is present, the Node B shall configure the new UL CCTrCH(s) according to the parameters given in the message.]

[TDD – If the *DL CCTrCH Information* IE is present, the Node B shall configure the new DL CCTrCH(s) according to the parameters given in the message.]

#### **Radio Link Handling:**

#### **Diversity Combination Control:**

The *Diversity Control Field* IE indicates for each RL whether the Node B shall combine the new RL with existing RL(s) or not. If the *Diversity Control Field* IE is set to "May", then Node B shall decide for any of the alternatives. If the *Diversity Control Field* IE is set to "Must", the Node B shall combine the RL

with one of the other RL. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with. If the *Diversity Control Field* IE is set to "Must not" the Node B shall not combine the RL with any other existing RL.

In the case of combining an RL with existing RL(s) the Node B 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 Node B shall indicate in the RADIO LINK ADDITION RESPONSE message with the Diversity Indication that no combining is done. In this case the Node B shall include both the Transport Layer Address and the binding ID for the transport bearer to be established for each DCH, [TDD – DSCH, USCH] of the RL in the RADIO LINK ADDITION RESPONSE message.

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

[TDD – The Node B shall include in the RADIO LINK ADDITION RESPONSE message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DSCH and USCH.]

#### [FDD – Transmit Diversity]:

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

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

#### **DL Power Control:**

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Initial DL Transmission Power* IE, the Node B shall apply the given power to the transmission on each DL DPCH of the RL when starting transmission until either UL synchronisation on the Uu is achieved for the RLS or **Power Balancing is activated**. If no *Initial DL Transmission power* IE is included, the Node B shall use any transmission power level currently used on already existing RL's for this UE. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], subclause 5.2.1.2) with DPC MODE currently configured for the relevant Node B Communication Context and the downlink power control procedure (see 8.3.7).]

[TDD – If the RADIO LINK ADDITION REQUEST message includes the [3.84Mcps TDD - *Initial DL Transmission Power* IE] [1.28Mcps TDD – *DL Time Slot ISCP Info LCR* IE], the Node B shall apply the given power to the transmission on each DL DPCH and on each Time Slot of the RL when starting transmission until the UL synchronisation on the Uu is achieved for the RL. If no *Initial DL Transmission power* IE is included, the Node B shall use any transmission power level currently used on already existing RL's for this UE. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22], subclause 4.2.3.3).]

If the RADIO LINK ADDITION REQUEST message includes the *Maximum DL power* IE, the Node B shall store this value and not transmit with a higher power on any DL DPCH of the RL. If no *Maximum DL power* IE is included, any Maximum DL power stored for already existing RLs for this UE shall be applied. [FDD - During compressed mode, the  $P_{SIR}(k)$ , as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

If the RADIO LINK ADDITION REQUEST message includes the *Minimum DL power* IE, the Node B shall store this value and never transmit with a lower power on any DL DPCH of the RL. If no *Minimum DL power* IE is included, any Minimum DL power stored for already existing RLs for this UE shall be applied.

[TDD – If the RADIO LINK ADDITION REQUEST message includes the *DL Time Slot ISCP Info* IE, the Node B shall use the indicated value when deciding the DL TX Power for each timeslot as specified in ref. [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged].

[FDD – If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Individual" in the existing RL(s) and the RADIO LINK ADDITION REQUEST message includes the *DL Reference Power* IE, the Node B shall activate the power balancing and use the *DL Reference Power* IE for the power balancing procedure in the new RL(s), if activation of power balancing by the RADIO LINK ADDITION REQUEST message is supported, according to subclause 8.3.7.]

[FDD – If activation of power balancing by the RADIO LINK ADDITION REQUEST message is supported by the Node B, the Node B shall include the *DL Power Balancing Activation Indicator* IE in the *RL Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

#### General:

[FDD – If the RADIO LINK ADDITION REQUEST message contains an *SSDT Cell Identity* IE the Node B shall activate SSDT, if supported, for the concerned new RL, with the indicated SSDT cell identity used for that RL.]

#### [FDD – Radio Link Set Handling]:

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

[FDD – For all RLs having a common generation of the TPC commands in the DL with another new or existing RL, the Node B 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 Node B Communication context.]

[FDD – After addition of the new RL(s), the UL out-of-sync algorithm defined in [10] shall for each of the previously existing and newly established RL Set(s) use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set.]

#### **Response Message:**

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

After sending of the RADIO LINK ADDITION RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation on the Uu and start reception on the new RL. [FDD – The Node B shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in [16].] [TDD – The Node B shall start transmission on the new RL immediately as specified in [16].]

## 8.3.1.3 Unsuccessful Operation



#### Figure 29: Radio Link Addition procedure: Unsuccessful Operation

If some RL(s) were established successfully, the Node B 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 contains a *C-ID* IE indicating that a Radio Link must be established on a Cell where DPC Mode change is not supported and DPC Mode can be changed for the relevant Node B Communication Context, the Node B shall consider the procedure as failed for the concerned Radio Link and shall respond with a RADIO LINK ADDITION FAILURE with the appropriate cause value ('DPC Mode change not supported').]

Typical cause values are as follows:

#### **Radio Network Layer Cause**

- Combining not supported
- Combining Resources not available
- Requested Tx Diversity Mode not supported
- UL SF not supported
- DL SF not supported
- Reconfiguration CFN not elapsed
- CM not supported
- [FDD DPC Mode change not supported]

### **Transport Layer Cause**

- Transport Resources Unavailable

### **Miscellaneous Cause**

- O&M Intervention
- Control processing overload
- HW failure

## 8.3.1.4 Abnormal conditions

[FDD – If the RADIO LINK ADDITION REQUEST contains the *Compressed Mode Deactivation Flag* IE with the value "Deactivate" when compressed mode is active for the existing RL(s), and at least one of the new RL is added in a cell that has the same UARFCN (both UL and DL) of at least one cell with an already existing RL, the Node B 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 power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Individual" in the existing RL(s) and if the *DL Reference Power* IEs are included in the *RL Information* IE but the *DL Reference Power* IE is not present for each RL in the *RL Information* IE, the Node B shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message.]

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *DL Reference Power* IEs in the *RL Information* IE but the power balancing is not active in the existing RL(s) or the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Common" in the existing RL(s), the Node B shall regard the Radio Link Addition procedure as failed and shall respond with a RADIO LINK ADDITION FAILURE message with the cause value "Power Balancing status not compatible".]

## <Not affected part is omitted>

# 9.1.36 RADIO LINK SETUP REQUEST

## 9.1.36.1 FDD message

Message DiscriminatorMGriticalityCriticalityMessage DiscriminatorM9.21.45Ressage Type M9.21.46YESrejectCRNC CommunicationM9.21.18The reserved value valueYESrejectContext IDM9.21.82Transaction IDM9.21.82UL DPCH Information1SUL Serambing CodeM9.22.29SMM UL ChannelisationM9.21.50For ULSpectra DPDCHSCodel en9.22.21Spectra DPDCHSCodel en9.21.58for ULSpectra DPDCHSM9.21.58for ULSpectra DPDCHSO9.22.46SUL DPCCH Slot FormatM9.22.46SSDT cell LongthO9.22.40SSDT cell LongthO9.22.40SDL DPCH Slot FormatM9.22.136For DLSDL DPCH Slot FormatM9.22.136SDL DPCH Slot FormatM9.22.20SDL DPCH Slot FormatM9.22.20SPDCH code mappingC-DSCH9.22.53SPDSCH Rib ID andM9.22.25	IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
Message Discriminator         M         9.2.1.45         -           Message Type         M         9.2.1.46         YES         reject           CRNC communication         M         9.2.1.48         The reserved value reserved val				and	description		Criticality
Message Discriminator         M         9.2.1.49         -         -           Ressage Type         M         9.2.1.48         The served value         reject           Context ID         M         9.2.1.18         The served value         reject           Transaction ID         M         9.2.1.62         -         -           UL DPCH Information         1         -         YES         reject           >UL DPCH Information         1         -         YES         reject           >UL DPCH Information         1         -         -         -           >Massage Type         M         9.2.2.59         -         -           >Mus Number of UL         C-         9.2.2.50         For UL         -           >puncture Limit         M         9.2.1.50         For UL         -           >JUL DPCCH Stot Format         M         9.2.2.45         -         -           >JUL SIR Target         M         9.2.2.45         -         -           >SSSDT cell Length         O         9.2.2.45         -         -           >SFleid Length         O         9.2.1.57         -         -           >SPDC mode         O         9.2.2.167		N4		reference			
Message Type         M         9.2.1.48         The reserved value         YES         reject           CRNC Communication Context ID         M         9.2.1.18         The reserved value         YES         reject           Transaction ID         M         9.2.1.62         -         -           UL DPCH Information SMIR UL Channelisation         M         9.2.2.59         -         -           SMIR UL Channelisation Code length         M         9.2.2.150         For UL         -           Sympotic Stress Sympote Stress         CodeLen         -         -         -           Sympote Stress         CodeLen         -         -         -           Sympote Stress         M         9.2.2.57         -         -           Sympote Stress         M         9.2.2.50         -         -           Sympote Stress         M         9.2.2.50         -         -	Message Discriminator	M		9.2.1.45		_	• .
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Context ID         M         Page 2000         Page	CRNC Communication	M		9.2.1.18	The	YES	reject
Transaction ID         M         9.2.162             UL DPCH Information         1         9.2.259              >UL Scrambling Code         M         9.2.259               >Min UL Channelisation         M         9.2.221               >Max Number of UL         C-         9.2.216               >puncture Limit         M         9.2.167               >UL SPCCH Slot Format         M         9.2.2.97              >UL SIR Target         M         9.2.2.97              >SUL SPCCH Slot Format         M         9.2.2.467             >SSBT Cell Length         O         9.2.2.467              >SPDer Cmde         O         9.2.2.457               >DL PCH Information         1         9.2.2.467	Context ID				reserved		
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> UL SIR Target         M         UL SIR 9.2.1.67A         -           > Diversity mode         M         9.2.2.16         -         -           >SSDT cell ID Length         O         9.2.2.45         -         -           > SField Length         O         9.2.2.40         -         -           > DPC mode         O         9.2.2.40         -         -           DL PPCH Information         1         -         YES         reject           > TFCS         M         9.2.1.58         For DL         -           > TFCI signalling mode         M         9.2.2.50         -         -           > TFCI presence         C-         9.2.1.57         -         -           > PDSCH RL ID         C-DSCH         9.2.2.23         -         -           > PDSCH code mapping         C-DSCH         9.2.2.25         -         -           > PDSCH code mapping         C-DSCH         9.2.2.25         -         -           > POwer Offset Information         1         -         -         -           > POWer Offset         1         -         -         -           > POWer Offset         1         -         -         -	>UL DPCCH Slot Format	М		9.2.2.57		_	
>Diversity mode         M         9.2.1.67A	> UL SIR Target	М		UL SIR		_	
>Diversity mode         M         9.2.2.9            >SS Field Length         O         9.2.2.40            >SPC mode         O         9.2.2.10            >DPC Mode         O         9.2.13C         YES         reject           >TFCS         M         9.2.1.58         For DL            >DL DPCH Slot Format         M         9.2.1.58         For DL            >TFCI signalling mode         M         9.2.1.57             >TFCI presence         C-         9.2.1.57             >Solt Format         M         9.2.2.23             >Multiplexing Position         M         9.2.2.23             >PDSCH RL ID         C-DSCH         RL ID             >PDSCH code mapping         C-DSCH         9.2.2.25             >Power Offset         1               Information         9.2.2.25               >POS         M         9.2.2.29         bits </td <td></td> <td></td> <td></td> <td>9.2.1.67A</td> <td></td> <td></td> <td></td>				9.2.1.67A			
>SSDT cell ID Length         O         9.22.45            >S Field Length         O         9.22.40             >DPC mode         O         9.22.13C         YES         reject           DL DPCH Information         1          YES         reject           >TFCS         M         9.21.58         For DL             >DL DPCH Slot Format         M         9.22.50             >TFC1 signalling mode         M         9.22.50             >TFC1 presence         C-         9.21.57             >Multiplexing Position         M         9.22.23             >PDSCH code mapping         C-DSCH         RL ID             >PDSCH code mapping         C-DSCH         9.22.25             >Power Offset         1               >POSCH code mapping         C-DSCH         9.22.29         bits              >POWer Offset         -         1 <td>&gt;Diversity mode</td> <td>М</td> <td></td> <td>9.2.2.9</td> <td></td> <td>-</td> <td></td>	>Diversity mode	М		9.2.2.9		-	
>S Field Length         O         9.2.2.40            >DPC mode         O         9.2.1.3C         YES         reject           DL DPCH Information         1         YES         reject           >TFCS         M         9.2.1.3C             >DL DPCH Slot Format         M         9.2.1.58         For DL            >TFCI signalling mode         M         9.2.2.50             >TFCI signalling mode         M         9.2.2.57             >TFCI presence         C-         9.2.1.57             SlotFormat         M         9.2.2.23             >PDSCH RL ID         C-DSCH         RL ID             >PDSCH code mapping         C-DSCH         9.2.2.50             >POwer Offset         1               Information         M         9.2.2.50              >POver Offset         -         -               >POWer Offset         -         -         -	>SSDT cell ID Length	0		9.2.2.45		-	
>DPC mode         O         9.2.2.13C         YES         reject           DL DPCH Information         1	>S Field Length	0		9.2.2.40		_	
DL DPCH Information1MYESreject $>TFCS$ M9.2.1.58For DL $>DL DPCH Slot FormatM9.2.2.10>TFC1 signalling modeM9.2.2.57>TFC1 presenceC-SlotFormat9.2.1.57>Multiplexing PositionM9.2.2.33>PDSCH RL IDC-DSCHRL ID>PDSCH code mappingC-DSCH9.2.1.53>Power OffsetInformation1>POwer OffsetInformation1>PO2MPowerOffsetPower offsetfor the TFCI9.2.2.29>PO3MPower offsetoffset>PO3M9.22.18A>PO3M9.2.2.18A>FDD TPC DL Step SizeLoop DL PC StatusM9.2.2.18BDCH InformationM9.2.2.18BDCH InformationM9.2.2.18BDCH InformationODSCH FDDInformationYESrejectDCH InformationODSCH FDDInformationYESrejectDCH InformationODSCH FDDInformationYESrejectDCH InformationODSCH FDDInformationYESreject$	>DPC mode	0		9.2.2.13C		YES	reject
>TFCS         M         9.2.1.58         For DL            >DL DPCH Slot Format         M         9.2.2.10             >TFC1 signalling mode         M         9.2.2.50             >TFC1 presence         C- SlotFormat         9.2.1.57             >Multiplexing Position         M         9.2.2.23             >PDSCH RL ID         C-DSCH         RL ID             9.21.53               >PDSCH code mapping         C-DSCH         9.2.2.25             >PDwer Offset Information         1              >POW Offset         1              >POW Offset         1              >PO1         M         Power         Power offset for the TFCI             >PO2         M         Power         Power offset for the pilot             >PO3         M         9.2.2.16              >FDD TPC DL Step Size	DL DPCH Information		1			YES	reject
>DL DPCH Slot Format         M         9.2.2.10             >TFCI signalling mode         M         9.2.2.50             >TFCI presence         C         9.2.1.57             >Multiplexing Position         M         9.2.2.23             >PDSCH RL ID         C-DSCH         RL ID             >PDSCH code mapping         C-DSCH         9.2.2.25             >Power Offset         1              >Power Offset         1              >Power Offset         1              >Power Offset               >Power Offset         0fset              >PO1         M         Power         Power offset             >PO2         M         Power         Power offset             >PO3         M         9.2.2.16              >Limited Power Increase         <	>TFCS	М		9.2.1.58	For DL	_	
>TFCI signalling modeM9.2.2.50>TFCI presenceC- SlotFormat9.2.1.57>Multiplexing PositionM9.2.2.23>PDSCH RL IDC-DSCHRL ID>PDSCH code mappingC-DSCH9.2.2.25>Power Offset Information1>POwer Offset Information1>POWer Offset InformationMPower Offset 9.2.2.29Power offset for the TFCI 9.2.2.29>PO2MPower Offset 9.2.2.29Power offset for the TPC 9.2.2.29>PO3MPower 9.2.2.16Power offset for the TPC 9.2.2.29>FDD TPC DL Step Size >Inner Loop DL PC StatusM9.2.2.18ADCH InformationMDCH FDD Information 9.2.2.40YESrejectDSCH Information0DSCH FDD InformationYESreject	>DL DPCH Slot Format	М		9.2.2.10		-	
>TFCI presence       C- SlotFormat       9.2.1.57       -       -         >Multiplexing Position       M       9.2.2.23       -       -         >PDSCH RL ID       C-DSCH       RL ID       -       -         >PDSCH code mapping       C-DSCH       9.2.2.25       -       -         >Power Offset       1       -       -       -         Information       M       9.2.2.25       -       -         >POWer Offset       1       -       -       -         >POwer Offset       1       -       -       -         >POWer Offset       1       -       -       -         >POW       Power offset       -       -       -         >PO1       M       Power offset       -       -         0ffset       for the TPC offset       -       -       -         >PO3       M       9.2.2.29       bits       -       -         >FDD TPC DL Step Size       M       9.2.2.168       -       -         >Inner Loop DL PC Status       M       9.2.2.18A       -       -         DCH Information       M       9.2.2.18B       -       -         DCH Information	>TFCI signalling mode	М		9.2.2.50		_	
SlotFormat         M         9.2.2.23         Image: Constraint of the state of the s	>TFCI presence	C-		9.2.1.57		-	
>Multiplexing Position     M     9.2.2.23        >PDSCH RL ID     C-DSCH     RL ID        9.2.1.53     9.2.1.53        >PDSCH code mapping     C-DSCH     9.2.2.25        >POwer Offset     1        Information     1        >>PO1     M     Power Offset o	•	SlotFormat					
>PDSCH RL ID       C-DSCH       RL ID       -         9.2.1.53       -       -         POSCH code mapping       C-DSCH       9.2.2.25       -         POwer Offset Information       1       -       -         >POwer Offset Information       1       -       -         >>PO1       M       Power Offset 9.2.2.29       Power offset for the TFCI 9.2.2.29       -         >>PO2       M       Power Offset 9.2.2.29       Power offset for the PIC       -         >>PO3       M       Power 0ffset 9.2.2.29       Power offset for the pilot 9.2.2.29       -         >>PO3       M       9.2.2.18A       -       -         >FDD TPC DL Step Size N       M       9.2.2.18B       -       -         >Inner Loop DL PC Status       M       9.2.2.18B       -       -         DCH Information       M       9.2.2.13B       -       -         Infor	>Multiplexing Position	М		9.2.2.23		-	
PDSCH code mappingC-DSCH9.2.2.53>Power Offset Information1Information1>>PO1MPower Offset 9.2.2.29Power offset for the TFC1 9.2.2.29>>PO2MPower Offset 9.2.2.29Power offset bits>>PO3MPower Offset 9.2.2.29Power offset bits>>PO3MPower Offset 9.2.2.29Power offset bits>SFDD TPC DL Step Size >Inner Loop DL PC Status DCH InformationM9.2.2.18ADCH InformationMDCH FDD Information 9.2.2.4DYESrejectDSCH InformationODSCH FDD InformationYESrejectTFCI2 bearer information0.1VESignore	>PDSCH RL ID	C-DSCH		RL ID		-	
>PDSCH code mappingC-DSCH9.2.2.25>Power Offset Information1InformationMPower Offset 1Power offset for the TFCI 9.2.2.29>>PO2MPower Offset 9.2.2.29Power offset bits>>PO3MPower Offset 9.2.2.29Power offset bits>>PO3MPower Offset 				9.2.1.53			
>Power Offset Information11>>PO1MPower Offset 9.2.2.9Power offset for the TFC1 9.2.2.9>>PO2MPower Offset 9.2.2.9Power offset for the TPC 9.2.2.9>>PO3MPower Offset 9.2.2.9Power offset for the TPC 9.2.2.9->>PO3MPower 9.2.2.9Power offset bits->FDD TPC DL Step SizeM9.2.2.16->FDD TPC DL Step SizeM9.2.2.18A->Inner Loop DL PC StatusM9.2.2.18A-DCH InformationMDCH FDD Information 9.2.2.4DYESrejectDSCH InformationODSCH FDD Information 9.2.2.13BYESrejectTFCI2 bearer information0.1VESignore	>PDSCH code mapping	C-DSCH		9.2.2.25		_	
InformationImage: Constraint of the const	>Power Offset		1			—	
>>PO1MPower Offset 9.2.2.9Power offset for the TFC1 9.2.2.9->>PO2MPower Offset 9.2.2.9Power offset for the TPC 9.2.2.9->>PO3MPower Offset 9.2.2.9Power offset for the TPC 9.2.2.9->>PO3MPower Offset 9.2.2.9Power offset bits->>PO3MPower Offset 9.2.2.9Power offset bits->FDD TPC DL Step Size >Limited Power IncreaseM9.2.2.16-M9.2.2.18A>Limited Power Increase >InformationM9.2.2.18BDCH InformationMDCH FDD Information 9.2.2.4DYESrejectDSCH InformationODSCH FDD Information 9.2.2.13BYESrejectTFCI2 bearer information0.1V.1YESignore	Information						
Offset 9.2.2.29for the IFCI 9.2.2.29for the IFCI 9.2.2.29>>PO2MPower Offset 9.2.2.29Power offset for the TPC 9.2.2.29->>PO3MPower Offset 9.2.2.29Power offset for the pilot 9.2.2.29->FDD TPC DL Step SizeM9.2.2.16->FDD TPC DL Step SizeM9.2.2.18A->Limited Power IncreaseM9.2.2.18A-DCH InformationM9.2.2.18B-DCH InformationMDCH FDD Information 9.2.2.4DYESDSCH InformationODSCH FDD Information 9.2.2.13BYESTFCI2 bearer information01VIIYES	>>PO1	М		Power	Power offset	-	
>>PO2MPower Offset 9.2.2.29Power offset for the TPC 9.2.2.29->>PO3MPower Offset 9.2.2.29Power offset for the pilot 9.2.2.29->FDD TPC DL Step SizeM9.2.2.16->FDD TPC DL Step SizeM9.2.2.18A->Inner Loop DL PC StatusM9.2.2.18B-DCH InformationM9.2.2.18B-DCH InformationMDCH FDD Information 9.2.2.13BYESTFCI2 bearer information0.10.1YES					for the IFCI		
>>PO2MI of Not Offset 9.2.2.29I of Not Offset for the TPC 9.2.2.29I of Not Offset for the TPC power offset 9.2.2.29I of Not For the TPC power offset 9.2.2.29>FDD TPC DL Step SizeM9.2.2.16->End Power IncreaseM9.2.2.18A->Inner Loop DL PC StatusM9.2.2.18B-DCH Information DCH InformationMDCH FDD 9.2.2.4DYESDSCH Information POULODSCH POULYESTFCI2 bearer information01VESignore	>> PO2	М		9.2.2.29 Power	Power offset		
Image: second	>>F02			Offset	for the TPC		
>>PO3MPower Offset 9.2.2.29Power offset for the pilot 				9.2.2.29	bits		
SFDD TPC DL Step SizeM9.2.2.29for the pilot bits>Limited Power IncreaseM9.2.2.16>Inner Loop DL PC StatusM9.2.2.18BDCH InformationM9.2.2.18BDCH InformationM0.2.2.4DYESDSCH InformationODSCH FDD InformationYESDSCH InformationODSCH FDD InformationYESTFCI2 bearer information0101	>>PO3	М		Power	Power offset	_	
>FDD TPC DL Step Size       M       9.2.2.16          >Limited Power Increase       M       9.2.2.18A          >Inner Loop DL PC Status       M       9.2.2.18B          DCH Information       M       9.2.2.4D       YES       reject         DSCH Information       O       DSCH       PDCH       YES       reject         DSCH Information       O       DSCH       FDD       YES       reject         TFCI2 bearer information       01       01       YES       ignore				Offset	for the pilot		
SEDD TPC DL Step Size     M     9.2.2.10     -       >Limited Power Increase     M     9.2.2.18A     -       >Inner Loop DL PC Status     M     9.2.2.18B     -       DCH Information     M     9.2.2.4D     YES     reject       DSCH Information     O     DSCH     YES     reject       DSCH Information     O     DSCH     FDD     YES     reject       TFCI2 bearer information     01     VES     ianore		М		9.2.2.29	DITS		<u> </u>
>Limited Power Increase     M     9.2.2.16A     -       >Inner Loop DL PC Status     M     9.2.2.18B     -       DCH Information     M     DCH FDD Information 9.2.2.4D     YES     reject       DSCH Information     O     DSCH FDD Information 9.2.2.13B     YES     reject       TFCI2 bearer information     01     YES     ianore	>FDD TPC DL Step Size			9.2.2.10			
DCH Information     M     DCH FDD Information 9.2.2.4D     YES     reject       DSCH Information     O     DSCH FDD Information 9.2.2.13B     YES     reject       TFCI2 bearer information     01     YES     ignore	>Linned Power Increase	M		9.2.2.16A			
DSCH Information     O     DSCH     DSCH     FDD       DSCH Information     9.2.2.4D     YES     reject       DSCH Information     0     DSCH     FDD       Information     9.2.2.13B     YES     ianore	DCH Information	M		DCH FDD		YES	reject
Image: Second system     Image: Second system <td></td> <td> </td> <td></td> <td>Information</td> <td></td> <td> 0</td> <td>10,000</td>				Information		0	10,000
DSCH Information     O     DSCH     PSCH     YES     reject       Information     9.2.2.13B     VES     ianore				9.2.2.4D			
FDD       Information       9.2.2.13B       TFCI2 bearer information       01	DSCH Information	0		DSCH		YES	reject
Information     Information       9.2.2.13B     YES				FDD			
TFCI2 bearer information 01 YES ignore				92212R			
	TFCI2 bearer information		01	0.2.2.100		YES	ignore

>ToAWS	Μ		9.2.1.61		-	
>ToAWE	Μ		9.2.1.60		-	
RL Information		1 to <maxnoof RLs&gt;</maxnoof 			EACH	notify
>RL ID	М		9.2.1.53		_	
>C-ID	Μ		9.2.1.9		_	
>First RLS Indicator	Μ		9.2.2.16A		_	
>Frame Offset	Μ		9.2.1.31		_	
>Chip Offset	Μ		9.2.2.2		_	
>Propagation Delay	0		9.2.2.35		_	
>Diversity Control Field	C – NotFirstRL		9.2.1.25		_	
>DL Code Information	M		FDD DL Code Information 9.2.2.14A		_	
>Initial DL transmission	Μ		DL Power	Initial power	-	
Power			9.2.1.21	on DPCH		
>Maximum DL power	М		DL Power 9.2.1.21	Maximum allowed power on DPCH	_	
>Minimum DL power	М		DL Power 9.2.1.21	Minimum allowed power on DPCH	-	
>SSDT Cell Identity	0		9.2.2.44		_	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.53		-	
>SSDT Cell Identity for EDSCHPC	C- EDSCHPC		9.2.2.44A		YES	ignore
Transmission Gap Pattern Sequence Information	0		9.2.2.53A		YES	reject
Active Pattern Sequence Information	0		9.2.2.A		YES	reject
DSCH Common Information	0		DSCH FDD Common Information 9.2.2.13D		YES	ignore
DL Power Balancing	<u>0</u>		<u>9.2.2.xx</u>		<u>YES</u>	ignore

<Not affected part is omitted>

# 9.1.37 RADIO LINK SETUP RESPONSE

## 9.1.37.1 FDD message

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
			reference			
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
CRNC Communication	Μ		9.2.1.18	The	YES	ignore
Context ID				reserved value "All CRNCC C" shall not be used.		
Transaction ID	Μ		9.2.1.62		-	
Node B Communication Context ID	Μ		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	ignore
Communication Control Port ID	Μ		9.2.1.15		YES	ignore
RL Information Response		1 to <maxnoofrl s&gt;</maxnoofrl 			EACH	ignore
>RL ID	М		9.2.1.53		-	
>RL Set ID	М		9.2.2.39			
>Received total wide band power	М		9.2.2.39A		_	
>Diversity Indication	C- NotFirstRL		9.2.1.26		_	
>CHOICE diversity Indication	Μ				_	
>>Combining					_	
>>>RL ID	М		9.2.1.53	Reference RL ID for the combining	_	
>>Non Combining or First RL					_	
>>>DCH Information Response	Μ		9.2.1.20C		-	
>DSCH Information	0		9.2.1.27A		YES	ignore
>SSDT Support Indicator	М		9.2.2.46		-	
>DL Power Balancing Activation Indicator	<u>0</u>		<u>9.2.2.x</u>		<u>YES</u>	ignore
TFCI2 Bearer Information	0		9.2.2.49A		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

<Not affected part is omitted>

# 9.1.38 RADIO LINK SETUP FAILURE

## 9.1.38.1 FDD Message

IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
			and	description		Criticality
Maaaaga Diaariminatar	М		9 2 1 45		_	
Message Discriminator	M		92146		VES	reject
CRNC Communication	M		92118	The	YES	ignore
			0.2.1110	reserved	. 20	ignore
Context ID				value		
				"All CRNCC		
				be used		
Transaction ID	Μ		9.2.1.62	50 0000.	_	
Node B Communication	C-Success		9.2.1.48	The	YES	ignore
Context ID				reserved		0
				value		
				"All NBCC"		
				used		
Communication Control Port	0		9.2.1.15		YES	ignore
ID						
CHOICE Cause Level	М				YES	ignore
>General					_	
>>Cause	М		9.2.1.6		_	
>RL specific					_	
>>Unsuccessful RL		1 to			EACH	ignore
Information Response		<				
		fRLs>				
>>>RL ID	М		9.2.1.53		_	
>>>Cause	М		9.2.1.6		_	
>>Successful RL		0 to			EACH	ignore
Information Response		<maxnoo< td=""><td></td><td></td><td></td><td></td></maxnoo<>				
	NA	fRLs-1>	02152			
>>>RL ID	M		9.2.1.33			
>>>RL Set ID	M		9.2.2.39 9.2.2.39		_	
>>>Received total wide	101		0.2.2.00/			
	C-NotFirstRI		92126		_	
	o nou nou le		0.2.1.20			
>>>CHOICE Diversity	М				_	
Indication						
>>>Combining					_	
>>>>RL ID	М		9.2.1.53	Reference	-	
				RL ID for the		
Non Combining or				combining	_	
First RI						
>>>>DCH	М		9.2.1.20C		-	
Information						
Response						
>>>DSCH Information	0		9.2.1.27A		YES	ignore
Response						
>>>TFCI2 Bearer	0		9.2.2.49A		-	
Information Response						
>>>SSDT Support	М		9.2.2.46		—	
Indicator						
>>>DL Power Balancing	<u>0</u>		<u>9.2.2.x</u>		<u>YES</u>	<u>ignore</u>
Activation Indicator	0		02117		VEQ	ignoro
Uniticality Diagnostics	0		७.∠.।.।/		IES	giloie

# <Not affected part is omitted>

# 9.1.39 RADIO LINK ADDITION REQUEST

## 9.1.39.1 FDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	Μ		9.2.1.62		-	
Compressed Mode Deactivation	0		9.2.2.3A		YES	reject
RL Information		1 <ma xnoofR L-1&gt;</ma 			EACH	notify
>RL ID	Μ		9.2.1.53		_	
>C-ID	Μ		9.2.1.9		-	
>Frame Offset	М		9.2.1.31		-	
>Chip Offset	М		9.2.2.2		-	
>Diversity Control Field	М		9.2.1.25		_	
>DL Code Information	M		FDD DL Code Information 9.2.2.14A		_	
>Initial DL transmission power	0		DL Power 9.2.1.21	Initial power on DPCH	_	
>Maximum DL power	0		DL Power 9.2.1.21	Maximum allowed power on DPCH	-	
>Minimum DL power	0		DL Power 9.2.1.21	Minimum allowed power on DPCH	-	
>SSDT Cell Identity	0		9.2.2.44		_	
>Transmit Diversity Indicator	0		9.2.2.53		_	
>DL Reference Power	<u>0</u>		DL power 9.2.1.21	Power on DPCH	YES	ignore

<Not affected part is omitted>

# 9.1.40 RADIO LINK ADDITION RESPONSE

## 9.1.40.1 FDD message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	Μ		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCC C" shall not be used.	YES	ignore
Transaction ID	М		9.2.1.62		-	
RL Information Response		1< <i>maxno</i> of <i>RL-1&gt;</i>			EACH	ignore
>RL ID	М		9.2.1.53		_	
>RL Set ID	М		9.2.2.39		_	
> Received total wide band power	М		9.2.2.39A		_	
>Diversity Indication	М		9.2.1.26		-	
>CHOICE Diversity Indication	М				-	
>>Combining					_	
>>>RL ID	М		9.2.1.53	Reference RL	-	
>>Non combining					_	
>>>DCH Information Response	М		9.2.1.20C		_	
>SSDT support indicator	М		9.2.2.46		-	
>DL Power Balancing Activation Indicator	<u>0</u>		<u>9.2.2.x</u>		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# <Not affected part is omitted>

# 9.1.41 RADIO LINK ADDITION FAILURE

## 9.1.41.1 FDD Message

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
			reference	uccomption		entiounty
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
CRNC Communication Context	Μ		9.2.1.18	The reserved value "All CRNCC C" shall not be used.	YES	ignore
Transaction ID	М		9.2.1.62		-	
CHOICE Cause Level	М				YES	Ignore
>General					-	
>>Cause	М		9.2.1.6		_	
>RL specific					_	
>>Unsuccessful RL Information Response		1 <ma xnoofR L-1&gt;</ma 			EACH	ignore
>>>RL ID	М		9.2.1.53		-	
>>>Cause	М		9.2.1.6		-	
>>Succcessful RL Information Response		0 <ma xnoofR L-2&gt;</ma 			EACH	ignore
>>>RL ID	М		9.2.1.53		_	
>>>RL Set ID	М		9.2.2.39			
>>> Received total wide band power	М		9.2.2.39A		-	
>>>Diversity Indication	М		9.2.1.26		_	
>>>CHOICE Diversity Indication	М				-	
>>>Combining					_	
>>>>RL ID	Μ		9.2.1.53	Reference RL	-	
>>>Non combining					_	
>>>>DCH Information Response	М		9.2.1.20C		_	
>>>SSDT support indicator	М		9.2.2.46		-	
>>>DL Power Balancing Activation Indicator	<u>0</u>		<u>9.2.2.x</u>		<u>YES</u>	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

<Not affected part is omitted>

## 9.2.2 FDD Specific Parameters

<Not affected part is omitted>

## 9.2.1.6 Cause

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE Cause Group				
>Radio Network Layer				
>Radio Network Layer	Μ		Enumerated	
Cause			(unknown C-ID,	
			Cell not available,	
			Power level not supported,	
			DL radio resources not	
			available,	
			UL radio resources not	
			available,	
			RL Already	
			Activated/allocated,	
			Node B Resources	
			Unavailable,	
			Measurement not supported	
			for the object,	
			Combining Resources not	
			available,	
			Requested configuration not	
			supported,	
			Synchronization failure,	
			Priority transport channel	
			established,	
			SIB Origination in Node B not	
			Supported,	
			Requested Tx Diversity Mode	
			not supported,	
			Unspecified,	
			BCCH scheduling error,	
			Measurement Temporarily not	
			Available,	
			Invalid CM Setting,	
			Reconfiguration CFN not	
			elapsed,	
			Number of DL codes not	
			supported,	
			S-CPICH not supported,	
			Combining not supported,	
			UL SF not supported,	
			DL SF not supported,	
			Common Transport Channel	
			Type not supported,	
			Dedicated Transport Channel	
			Type not supported,	
			Downlink Shared Channel	
			Type not supported,	
			Uplink Shared Channel Type	
			not supported,	
			CM not supported,	
			Tx diversity no longer	
			supported,	
			Unknown Local Cell ID,	
			,	
			Number of UL codes not	
			supported,	
			Information temporarily not	
			available,	
			Information Provision not	
			supported for the object,	
			Cell Synchronisation not	
			supported,	
			Cell Synchronisation	
			Adjustment not supported,	
			DPC Mode Change not	
			Supported,	
			IPDL already activated,	

>Transport Laver		IPDL not supported, IPDL parameters not available, Frequency Acquisition not supported <u>.</u> <u>Power Balancing status not</u> <u>compatible</u> )
>Transport Layer Cause	М	Enumerated (Transport resource unavailable, Unspecified, )
>Protocol		
>Protocol Cause		Enumerated (Transfer syntax error, Abstract syntax error (reject), Abstract syntax error (ignore and notify), Message not compatible with receiver state, Semantic error, Unspecified, Abstract syntax error (falsely constructed message), )
>Misc		
>Miscellaneous Cause	Μ	Enumerated (Control processing overload Hardware failure, O&M intervention, Not enough user plane processing resources, Unspecified, )

The meaning of the different cause values is described in the following table. In general, "not supported" cause values indicate that the concerning capability is missing. On the other hand, "not available" cause values indicate that the concerning capability is present, but insufficient resources were available to perform the requested action.

Radio Network Layer cause	Meaning
BCCH scheduling error	The Node B has detected an illegal BCCH schedule update (see subclause 8.2.16.3)
Cell not Available,	The concerning cell or local cell is not available
Cell Synchronisation not supported	The concerning cell(s) do not support Cell Synchronisation
Combining not supported	The Node B does not support RL combining for the concerning cells
Combining Resources Not Available	The value of the received Diversity Control Field IE was set to 'Must', but
	the Node B cannot perform the requested combining
CM not supported	The concerning cell(s) do not support Compressed Mode
Common Transport Channel Type not	The concerning cell(s) do not support the RACH and/or FACH and/or
supported	CPCH Common Transport Channel Type
Dedicated Transport Channel Type not	The concerning cell(s) do not support the Dedicated Transport Channel
supported	Туре
DL Radio Resources not Available	The Node B does not have sufficient DL radio resources available
DL SF not supported	The concerning cell(s) do not support the requested DL SF
DL Shared Channel Type not	The concerning cell(s) do not support the Downlink Shared Channel
supported	Туре
DPC Mode Change not Supported	The concerning cells do not support DPC mode changes
Frequency Acquisition not supported	The concerning cell(s) do not support Frequency Acquisition
Information Provision not supported	The requested information provision is not supported for the concerned
for the object	object types
Information temporarily not available	The requested information can temporarily not be provided
Invalid CM Settings	The concerning cell(s) consider the requested Compressed Mode settings invalid

IPDL already activated	The concerning cell(s) have already active IPDL ongoing
IPDL not supported	The concerning cell(s) do not support the IPDL
IPDL parameters not available	The concerning cell(s) do not have IPDL parameters defining IPDL to be applied
Measurement not Supported For The Object	At least one of the concerning cell(s) does not support the requested measurement on the concerning object type
Measurement Temporarily not	The Node B can temporarily not provide the requested measurement
Node B resources unavailable	The Node B does not have sufficient resources available
Number of DL codes not supported	The concerning cell(s) do not support the requested number of DL codes
Number of UL codes not supported	The concerning cell(s) do not support the requested number of <i>DL</i> codes
Power Level not Supported	A DL power level was requested which the concerning cell(s) do not support
Power Balancing status not compatible	The power balancing status in the SRNC is not compatible with that of the Node B.
Priority transport channel established	The CRNC cannot perform the requested blocking since a transport channel with a high priority is present
Reconfiguration CFN not elapsed	The requested action cannot be performed due to that a COMMIT message was received previously, but the concerning CFN has not yet elapsed
Requested Configuration not	The concerning cell(s) do not support the requested configuration i.e.
Supported	power levels, Transport Formats, physical channel parameters
Requested Tx Diversity mode not supported	The concerning cell(s) do not support the requested transmit diversity mode
RL already Activated/ allocated	The Node B has already allocated an RL with the requested RL-id for this UE context
S-CPICH not supported	The concerning cell(s) do not support S-CPICH
SIB Orgination in Node B not Supported	The Node B does not support the origination of the requested SIB for the concerning cell
Synchronisation Failure	Loss of UL Uu synchronisation
Cell Synchronisation Adjustment not supported	The concerning cell(s) do not support Cell Synchronisation Adjustment
Tx diversity no longer supported	Tx diversity can no longer be supported in the concerning cell.
UL Radio Resources not Available	The Node B does not have sufficient UL radio resources available
UL SF not supported	The concerning cell(s) do not support the requested minimum UL SF
UL Shared Channel Type not supported	The concerning cell(s) do not support the Uplink Shared Channel Type
Unknown C-ID	The Node B is not aware of a cell with the provided C-ID
Unknown Local Cell ID	The Node B is not aware of a local cell with the provided Local Cell ID
Unspecified	Sent when none of the above cause values applies but still the cause is Radio Network layer related

# <Not affected part is omitted>

## 9.2.2.12A DL_power_averaging_window_size

DL_power_averaging_window_size IE defines the window size when Limited Power Increase is used [10].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL_power_averaging_window_size			INTEGER (160)	1-60 inner loop power adjustments, step size 1 adjustment

## 9.2.2.xx DL Power Balancing Information

The *DL Power Balancing Information* IE provides information for power balancing to be activated in the relevant <u>RL(s).</u>

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type</u> <u>and</u> reference	Semantics description	<u>Criticality</u>	Assigned Criticality
Power Adjustment Type	M		<u>9.2.2.27</u>		_	
DL Reference Power	C-Common		<u>DL power</u> 9.2.1.21	Power on DPCH	=	
DL Reference Power Information	C-Individual	<u>1<maxnoof< u=""> <u>RLs&gt;</u></maxnoof<></u>			=	
>RL ID	M		<u>9.2.1.53</u>		_	
<u>&gt;DL Reference Power</u>	M		<u>DL power</u> 9.2.1.21	Power on DPCH	=	
Max Adjustment Step	<u>C-</u> <u>CommonOrIn</u> <u>dividual</u>		9.2.2.20		=	
Adjustment Period	<u>C-</u> <u>CommonOrIn</u> <u>dividual</u>		<u>9.2.2.A</u>		=	
Adjustment Ratio	<u>C-</u> <u>CommonOrIn</u> <u>dividual</u>		<u>9.2.2.B</u>		=	

Condition	Explanation
Common	The IE shall be present if the Power Adjustment Type IE is set to
	"Common".
Individual	The IE shall be present if the Power Adjustment Type IE is set to
	"Individual".
CommonOrIndividual	The IE shall be present if the Power Adjustment Type IE is set to
	<u>"Common' or 'Individual".</u>

Range Bound	Explanation
MaxnoofRLs	Maximum number of Radio Links for a UE.

## 9.2.2.xx DL Power Balancing Activation Indicator

The DL Power Balancing Activation Indicator IE indicates that the power balancing is activated in the RL.

IE/Group Name	Presence	Range	IE type and	Semantics description
			reference	
DL Power Balancing			ENUMERATED	
Activation Indicator			(DL Power	
			Balancing	
			Activated).	

## 9.2.2.13 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 (015)	0= Primary scrambling code of the cell 115= Secondary scrambling code

<Not affected part is omitted>
#### PDU Definitions 9.3.3

_ _ -- PDU definitions for NBAP. ___ NBAP-PDU-Contents { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN ____ _ _ -- IE parameter types from other modules. ___ IMPORTS Active-Pattern-Sequence-Information, AddorDeleteIndicator, AICH-Power, AICH-TransmissionTiming, AllocationRetentionPriority, APPreambleSignature, APSubChannelNumber, AvailabilityStatus, BCCH-ModificationTime, BindingID, BlockingPriorityIndicator, SCTD-Indicator, Cause, CCTrCH-ID, CDSubChannelNumbers, CellParameterID, CellSyncBurstAvailabilityIndicator, CellSyncBurstCode, CellSyncBurstCodeShift, CellSyncBurstRepetitionPeriod, CellSyncBurstSIR, CellSyncBurstTiming, CellSyncBurstTimingThreshold, CFN,

Channel-Assignment-Indication, ChipOffset,

C-ID,

Closedlooptimingadjustmentmode, CommonChannelsCapacityConsumptionLaw, Compressed-Mode-Deactivation-Flag, CommonMeasurementAccuracy, CommonMeasurementType, CommonMeasurementValue, CommonMeasurementValueInformation, CommonPhysicalChannelID, Common-PhysicalChannel-Status-Information, Common-TransportChannel-Status-Information, CommonTransportChannelID, CommonTransportChannel-InformationResponse, CommunicationControlPortID, ConfigurationGenerationID, ConstantValue, CriticalityDiagnostics, CPCH-Allowed-Total-Rate, CPCHScramblingCodeNumber, CPCH-UL-DPCCH-SlotFormat, CRNC-CommunicationContextID, CSBMeasurementID, CSBTransmissionID, DCH-FDD-Information, DCH-InformationResponse, DCH-ID, FDD-DCHs-to-Modify, TDD-DCHs-to-Modify, DCH-TDD-Information, DedicatedChannelsCapacityConsumptionLaw, DedicatedMeasurementType, DedicatedMeasurementValue, DedicatedMeasurementValueInformation, DiversityControlField, DiversityMode, DL-DPCH-SlotFormat, DL-or-Global-CapacityCredit, DL-Power, DL-PowerBalancing-Information, DL-PowerBalancing-ActivationIndicator, DLPowerAveragingWindowSize, DL-ScramblingCode, DL-TimeslotISCP, DL-Timeslot-Information, DL-TimeslotLCR-Information, DL-TimeslotISCPInfo, DL-TimeslotISCPInfoLCR, DL-TPC-Pattern01Count, DPC-Mode, DPCH-ID, DSCH-ID, DSCH-FDD-Common-Information,

DSCH-FDD-Information, DSCH-InformationResponse, DSCH-TDD-Information, DwPCH-Power, End-Of-Audit-Sequence-Indicator, EnhancedDSCHPC, EnhancedDSCHPCCounter, EnhancedDSCHPCIndicator, EnhancedDSCHPCWnd, EnhancedDSCHPowerOffset, FDD-DL-ChannelisationCodeNumber, FDD-DL-CodeInformation, FDD-S-CCPCH-Offset, FDD-TPC-DownlinkStepSize, FirstRLS-Indicator, FNReportingIndicator, FPACH-Power, FrameAdjustmentValue, FrameHandlingPriority, FrameOffset, IB-OC-ID, IB-SG-DATA, IB-SG-POS, IB-SG-REP, IB-Type, IndicationType, InformationExchangeID, InformationReportCharacteristics, InformationType, InnerLoopDLPCStatus, IPDL-FDD-Parameters, IPDL-TDD-Parameters, IPDL-Indicator, LimitedPowerIncrease, Local-Cell-ID, MaximumDL-PowerCapability, MaximumTransmissionPower, Max-Number-of-PCPCHes, MaxNrOfUL-DPDCHs, MaxPRACH-MidambleShifts, MeasurementFilterCoefficient, MeasurementID, MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftLCR, MinimumDL-PowerCapability, MinSpreadingFactor, MinUL-ChannelisationCodeLength, MultiplexingPosition, NEOT, NCyclesPerSFNperiod,

NFmax, NRepetitionsPerCyclePeriod, N-INSYNC-IND. N-OUTSYNC-IND, NeighbouringCellMeasurementInformation, NeighbouringFDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation, NodeB-CommunicationContextID, NStartMessage, PagingIndicatorLength, PayloadCRC-PresenceIndicator, PCCPCH-Power, PCP-Length, PDSCH-CodeMapping, PDSCHSet-ID, PDSCH-ID, PICH-Mode, PICH-Power, PowerAdjustmentType, PowerOffset, PowerRaiseLimit, PRACH-Midamble, PreambleSignatures, PreambleThreshold. PredictedSFNSFNDeviationLimit, PredictedTUTRANGPSDeviationLimit, PrimaryCPICH-Power, PrimaryScramblingCode, PropagationDelay, SCH-TimeSlot, PunctureLimit, PUSCHSet-ID, PUSCH-ID, QE-Selector, RACH-SlotFormat, RACH-SubChannelNumbers, ReferenceClockAvailability, ReferenceSFNoffset, RepetitionLength, RepetitionPeriod, ReportCharacteristics, RequestedDataValue, RequestedDataValueInformation, ResourceOperationalState, RL-Set-ID, RL-ID, Received-total-wide-band-power-Value, AdjustmentPeriod, ScaledAdjustmentRatio, MaxAdjustmentStep, RNC-ID,

ScramblingCodeNumber, SecondaryCCPCH-SlotFormat, Segment-Type, S-FieldLength, SFN, SFNSFNChangeLimit, SFNSFNDriftRate, SFNSFNDriftRateQuality, SFNSFNQuality, ShutdownTimer, SIB-Originator, SpecialBurstScheduling, SSDT-Cell-Identity, SSDT-CellID-Length, SSDT-Indication, Start-Of-Audit-Sequence-Indicator, STTD-Indicator, SSDT-SupportIndicator, SyncCase, SYNCDlCodeId, SyncFrameNumber, SynchronisationReportCharacteristics, SynchronisationReportType, T-Cell. T-RLFAILURE, TDD-ChannelisationCode, TDD-ChannelisationCodeLCR, TDD-DL-Code-LCR-Information, TDD-DPCHOffset, TDD-TPC-DownlinkStepSize, TDD-PhysicalChannelOffset, TDD-UL-Code-LCR-Information, TFCI2-BearerInformationResponse, TFCI-Coding, TFCI-Presence, TFCI-SignallingMode, TFCS, TimeSlot, TimeSlotLCR, TimeSlotDirection, TimeSlotStatus, TimingAdjustmentValue, TimingAdvanceApplied, TOAWE, TOAWS, TransmissionDiversityApplied, TransmitDiversityIndicator,

TransmissionGapPatternSequenceCodeInformation, Transmission-Gap-Pattern-Sequence-Information, TransportBearerRequestIndicator, TransportFormatSet,

TransportLayerAddress, TSTD-Indicator, UARFCN. TUTRANGPS, TUTRANGPSChangeLimit, TUTRANGPSDriftRate, TUTRANGPSDriftRateQuality, TUTRANGPSQuality, UARFCN, UC-Id, USCH-Information, USCH-InformationResponse, UL-CapacityCredit, UL-DPCCH-SlotFormat. UL-SIR, UL-FP-Mode. UL-PhysCH-SF-Variation, UL-ScramblingCode, UL-Timeslot-Information, UL-TimeslotLCR-Information, UL-TimeSlot-ISCP-Info, UL-TimeSlot-ISCP-LCR-Info, UL-TimeslotISCP-Value, UL-TimeslotISCP-Value-IncrDecrThres, USCH-ID FROM NBAP-IEs PrivateIE-Container{}, ProtocolExtensionContainer{}, ProtocollE-Container{}, ProtocolIE-Single-Container{}, ProtocolIE-ContainerList{}, NBAP-PRIVATE-IES, NBAP-PROTOCOL-IES, NBAP-PROTOCOL-EXTENSION FROM NBAP-Containers id-Active-Pattern-Sequence-Information, id-AdjustmentRatio, id-AICH-Information, id-AICH-ParametersListIE-CTCH-ReconfRqstFDD, id-AP-AICH-Information, id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD, id-BCH-Information, id-BCCH-ModificationTime, id-BlockingPriorityIndicator, id-Cause, id-CauseLevel-PSCH-ReconfFailureTDD, id-CauseLevel-RL-AdditionFailureFDD, id-CauseLevel-RL-AdditionFailureTDD, id-CauseLevel-RL-ReconfFailure,

id-CauseLevel-RL-SetupFailureFDD, id-CauseLevel-RL-SetupFailureTDD, id-CauseLevel-SyncAdjustmntFailureTDD. id-CCP-InformationItem-AuditRsp, id-CCP-InformationList-AuditRsp, id-CCP-InformationItem-ResourceStatusInd, id-CCTrCH-InformationItem-RL-FailureInd, id-CCTrCH-InformationItem-RL-RestoreInd, id-CDCA-ICH-Information, id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD, id-CellAdjustmentInfo-SyncAdjustmntRgstTDD, id-CellAdjustmentInfoItem-SyncAdjustmentRgstTDD, id-Cell-InformationItem-AuditRsp. id-Cell-InformationItem-ResourceStatusInd. id-Cell-InformationList-AuditRsp, id-CellParameterID, id-CellSyncBurstTransInit-CellSyncInitiationRgstTDD, id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD, id-cellSvncBurstRepetitionPeriod, id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD, id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD, id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD, id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD, id-CellSyncBurstInfoList-CellSyncReconfRgstTDD. id-CellSyncInfo-CellSyncReprtTDD, id-CFN. id-CFNReportingIndicator, id-C-ID, id-Closed-Loop-Timing-Adjustment-Mode, id-CommonMeasurementAccuracy, id-CommonMeasurementObjectType-CM-Rprt, id-CommonMeasurementObjectType-CM-Rqst, id-CommonMeasurementObjectType-CM-Rsp, id-CommonMeasurementType, id-CommonPhysicalChannelID, id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD, id-CommonPhysicalChannelType-CTCH-SetupRqstFDD, id-CommonPhysicalChannelType-CTCH-SetupRgstTDD, id-CommunicationContextInfoItem-Reset, id-CommunicationControlPortID, id-CommunicationControlPortInfoItem-Reset, id-Compressed-Mode-Deactivation-Flag, id-ConfigurationGenerationID, id-CPCH-Information, id-CPCH-Parameters-CTCH-SetupRsp, id-CPCH-ParametersListIE-CTCH-ReconfRgstFDD, id-CRNC-CommunicationContextID, id-CriticalityDiagnostics, id-CSBTransmissionID, id-CSBMeasurementID, id-DCHs-to-Add-FDD,

id-DCHs-to-Add-TDD, id-DCH-AddList-RL-ReconfPrepTDD. id-DCH-DeleteList-RL-ReconfPrepFDD. id-DCH-DeleteList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfRqstFDD, id-DCH-DeleteList-RL-ReconfRastTDD, id-DCH-FDD-Information, id-DCH-TDD-Information, id-DCH-InformationResponse, id-FDD-DCHs-to-Modify, id-TDD-DCHs-to-Modify, id-DedicatedMeasurementObjectType-DM-Rprt, id-DedicatedMeasurementObjectType-DM-Rqst, id-DedicatedMeasurementObjectType-DM-Rsp, id-DedicatedMeasurementType, id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD, id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD, id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD, id-DL-CCTrCH-InformationList-RL-SetupRqstTDD, id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD. id-DL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD, id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationItem-RL-AdditionRgstTDD, id-DL-DPCH-InformationList-RL-SetupRqstTDD, id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD, id-DL-DPCH-Information-RL-ReconfPrepFDD, id-DL-DPCH-Information-RL-ReconfRqstFDD, id-DL-DPCH-Information-RL-SetupRqstFDD, id-DL-PowerBalancing-Information, id-DL-PowerBalancing-ActivationIndicator, id-DL-ReferencePowerInformationItem-DL-PC-Rqst, id-DLReferencePower, id-DLReferencePowerList-DL-PC-Rqst, id-DL-TPC-Pattern01Count, id-DPC-Mode, id-DPCHConstant, id-DSCH-AddItem-RL-ReconfPrepFDD, id-DSCHs-to-Add-FDD, id-DSCH-DeleteItem-RL-ReconfPrepFDD, id-DSCH-DeleteList-RL-ReconfPrepFDD, id-DSCHs-to-Add-TDD. id-DSCH-Information-DeleteList-RL-ReconfPrepTDD, id-DSCH-Information-ModifyList-RL-ReconfPrepTDD, id-DSCH-InformationResponse, id-DSCH-FDD-Information,

id-DSCH-FDD-Common-Information, id-DSCH-TDD-Information. id-DSCH-ModifvItem-RL-ReconfPrepFDD. id-DSCH-ModifyList-RL-ReconfPrepFDD, id-End-Of-Audit-Sequence-Indicator, id-EnhancedDSCHPC, id-EnhancedDSCHPCIndicator, id-FACH-Information, id-FACH-ParametersList-CTCH-ReconfRqstTDD, id-FACH-ParametersList-CTCH-SetupRsp, id-FACH-ParametersListIE-CTCH-ReconfRqstFDD, id-FACH-ParametersListIE-CTCH-SetupRqstFDD, id-FACH-ParametersListIE-CTCH-SetupRgstTDD, id-IndicationType-ResourceStatusInd, id-InformationExchangeID, id-InformationExchangeObjectType-InfEx-Rgst, id-InformationExchangeObjectType-InfEx-Rsp, id-InformationExchangeObjectType-InfEx-Rprt, id-InformationReportCharacteristics, id-InformationType, id-InitDL-Power, id-InnerLoopDLPCStatus, id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD, id-IPDLParameter-Information-Cell-ReconfRostFDD. id-IPDLParameter-Information-Cell-SetupRgstFDD, id-IPDLParameter-Information-Cell-ReconfRqstTDD, id-IPDLParameter-Information-Cell-SetupRgstTDD, id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD, id-Limited-power-increase-information-Cell-SetupRqstFDD, id-Local-Cell-ID, id-Local-Cell-Group-InformationItem-AuditRsp, id-Local-Cell-Group-InformationItem-ResourceStatusInd, id-Local-Cell-Group-InformationItem2-ResourceStatusInd, id-Local-Cell-Group-InformationList-AuditRsp, id-Local-Cell-InformationItem-AuditRsp, id-Local-Cell-InformationItem-ResourceStatusInd, id-Local-Cell-InformationItem2-ResourceStatusInd, id-Local-Cell-InformationList-AuditRsp, id-AdjustmentPeriod, id-MaxAdjustmentStep, id-MaximumTransmissionPower, id-MeasurementFilterCoefficient. id-MeasurementID, id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst, id-NCvclesPerSFNperiod, id-NeighbouringCellMeasurementInformation, id-NodeB-CommunicationContextID, id-NRepetitionsPerCyclePeriod, id-P-CCPCH-Information, id-P-CPICH-Information, id-P-SCH-Information,

id-PCCPCH-Information-Cell-ReconfRgstTDD, id-PCCPCH-Information-Cell-SetupRgstTDD. id-PCH-Parameters-CTCH-ReconfRostTDD. id-PCH-Parameters-CTCH-SetupRsp, id-PCH-ParametersItem-CTCH-ReconfRgstFDD, id-PCH-ParametersItem-CTCH-SetupRgstFDD, id-PCH-ParametersItem-CTCH-SetupRgstTDD, id-PCH-Information, id-PCPCH-Information. id-PICH-ParametersItem-CTCH-ReconfRqstFDD, id-PDSCH-Information-AddListIE-PSCH-ReconfRqst, id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst, id-PDSCHSets-AddList-PSCH-ReconfRqst, id-PDSCHSets-DeleteList-PSCH-ReconfRqst, id-PDSCHSets-ModifyList-PSCH-ReconfRqst, id-PICH-Information, id-PICH-Parameters-CTCH-ReconfRgstTDD, id-PICH-ParametersItem-CTCH-SetupRgstTDD, id-PowerAdjustmentType, id-PRACH-Information, id-PRACHConstant. id-PRACH-ParametersItem-CTCH-SetupRqstTDD, id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD, id-PrimaryCCPCH-Information-Cell-ReconfRgstFDD. id-PrimaryCCPCH-Information-Cell-SetupRqstFDD, id-PrimaryCPICH-Information-Cell-ReconfRgstFDD, id-PrimaryCPICH-Information-Cell-SetupRgstFDD, id-PrimarySCH-Information-Cell-ReconfRqstFDD, id-PrimarySCH-Information-Cell-SetupRgstFDD, id-PrimaryScramblingCode, id-SCH-Information-Cell-ReconfRgstTDD, id-SCH-Information-Cell-SetupRqstTDD, id-PUSCH-Information-AddListIE-PSCH-ReconfRqst, id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst, id-PUSCHConstant. id-PUSCHSets-AddList-PSCH-ReconfRqst, id-PUSCHSets-DeleteList-PSCH-ReconfRqst, id-PUSCHSets-ModifyList-PSCH-ReconfRqst, id-RACH-Information, id-RACH-Parameters-CTCH-SetupRsp, id-RACH-ParametersItem-CTCH-SetupRgstFDD, id-RACH-ParameterItem-CTCH-SetupRqstTDD, id-ReferenceClockAvailability, id-ReferenceSFNoffset, id-ReportCharacteristics, id-Reporting-Object-RL-FailureInd, id-Reporting-Object-RL-RestoreInd, id-ResetIndicator, id-RL-InformationItem-DM-Rprt, id-RL-InformationItem-DM-Rgst, id-RL-InformationItem-DM-Rsp,

id-RL-InformationItem-RL-AdditionRgstFDD, id-RL-informationItem-RL-DeletionRgst, id-RL-InformationItem-RL-FailureInd. id-RL-InformationItem-RL-PreemptRequiredInd, id-RL-InformationItem-RL-ReconfPrepFDD, id-RL-InformationItem-RL-ReconfRgstFDD, id-RL-InformationItem-RL-RestoreInd, id-RL-InformationItem-RL-SetupRgstFDD, id-RL-InformationList-RL-AdditionRgstFDD, id-RL-informationList-RL-DeletionRqst, id-RL-InformationList-RL-PreemptRequiredInd, id-RL-InformationList-RL-ReconfPrepFDD, id-RL-InformationList-RL-ReconfRgstFDD, id-RL-InformationList-RL-SetupRgstFDD, id-RL-InformationResponseItem-RL-AdditionRspFDD, id-RL-InformationResponseItem-RL-ReconfReady, id-RL-InformationResponseItem-RL-ReconfRsp, id-RL-InformationResponseItem-RL-SetupRspFDD, id-RL-InformationResponseList-RL-AdditionRspFDD, id-RL-InformationResponseList-RL-ReconfReady, id-RL-InformationResponseList-RL-ReconfRsp, id-RL-InformationResponseList-RL-SetupRspFDD, id-RL-InformationResponse-RL-AdditionRspTDD, id-RL-InformationResponse-RL-SetupRspTDD. id-RL-Information-RL-AdditionRgstTDD, id-RL-Information-RL-ReconfRqstTDD, id-RL-Information-RL-ReconfPrepTDD, id-RL-Information-RL-SetupRgstTDD, id-RL-ReconfigurationFailureItem-RL-ReconfFailure, id-RL-Set-InformationItem-DM-Rprt, id-RL-Set-InformationItem-DM-Rsp, id-RL-Set-InformationItem-RL-FailureInd, id-RL-Set-InformationItem-RL-RestoreInd, id-S-CCPCH-Information, id-S-CPICH-Information. id-SCH-Information. id-S-SCH-Information, id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD, id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD, id-Secondary-CCPCH-Parameters-CTCH-ReconfRgstTDD, id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD, id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD, id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD, id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD, id-SecondarySCH-Information-Cell-ReconfRgstFDD, id-SecondarySCH-Information-Cell-SetupRqstFDD, id-SegmentInformationListIE-SystemInfoUpdate, id-SFN, id-SFNReportingIndicator, id-ShutdownTimer, id-SSDT-CellIDforEDSCHPC,

id-Start-Of-Audit-Sequence-Indicator, id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD. id-Successful-RL-InformationRespItem-RL-SetupFailureFDD. id-Synchronisation-Configuration-Cell-ReconfRqst, id-Synchronisation-Configuration-Cell-SetupRgst, id-SyncCase, id-SyncCaseIndicatorItem-Cell-SetupRgstTDD-PSCH, id-SvncFrameNumber, id-SynchronisationReportType, id-SynchronisationReportCharacteristics, id-SyncReportType-CellSyncReprtTDD, id-T-Cell. id-TFCI2-Bearer-Information-RL-SetupRqstFDD, id-TFCI2-BearerInformationResponse, id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD, id-Transmission-Gap-Pattern-Sequence-Information, id-TimeSlotConfigurationList-Cell-ReconfRgstTDD, id-TimeSlotConfigurationList-Cell-SetupRgstTDD, id-timeslotInfo-CellSyncInitiationRgstTDD, id-TimeslotISCPInfo, id-TimingAdvanceApplied, id-TransmissionDiversityApplied, id-UARFCNforNt, id-UARFCNforNd. id-UARFCNforNu, id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD, id-UL-CCTrCH-InformationList-RL-AdditionRgstTDD, id-UL-CCTrCH-InformationList-RL-SetupRqstTDD, id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationItem-RL-AdditionRgstTDD, id-UL-DPCH-InformationList-RL-SetupRqstTDD, id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD, id-UL-DPCH-Information-RL-ReconfPrepFDD, id-UL-DPCH-Information-RL-ReconfRqstFDD, id-UL-DPCH-Information-RL-SetupRqstFDD, id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD, id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD, id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD, id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD, id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD, id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD, id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,

id-USCH-Information-Add, id-USCH-Information-DeleteList-RL-ReconfPrepTDD. id-USCH-Information-ModifyList-RL-ReconfPrepTDD. id-USCH-InformationResponse, id-USCH-Information, id-DL-DPCH-LCR-Information-RL-SetupRqstTDD, id-DL-DPCH-LCR-InformationList-RL-SetupRgstTDD, id-DwPCH-LCR-Information, id-DwPCH-LCR-Information-AuditRsp, id-DwPCH-LCR-InformationList-AuditRsp, id-DwPCH-LCR-Information-Cell-SetupRgstTDD, id-DwPCH-LCR-Information-Cell-ReconfRgstTDD, id-DwPCH-LCR-Information-ResourceStatusInd, id-maxFACH-Power-LCR-CTCH-SetupRqstTDD, id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD, id-FPACH-LCR-Information, id-FPACH-LCR-Information-AuditRsp, id-FPACH-LCR-InformationList-AuditRsp, id-FPACH-LCR-InformationList-ResourceStatusInd, id-FPACH-LCR-Parameters-CTCH-SetupRgstTDD, id-FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD, id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD, id-PCCPCH-LCR-Information-Cell-SetupRqstTDD, id-PCH-Power-LCR-CTCH-SetupRgstTDD. id-PCH-Power-LCR-CTCH-ReconfRqstTDD, id-PICH-LCR-Parameters-CTCH-SetupRgstTDD, id-PICH-LCR-ParametersItem-CTCH-SetupRgstTDD, id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD, id-PRACH-LCR-ParametersListIE-CTCH-SetupRqstTDD, id-RL-InformationResponse-LCR-RL-SetupRspTDD, id-Secondary-CCPCH-LCR-parameterListIE-CTCH-SetupRgstTDD, id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD, id-TimeSlot, id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD, id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD, id-TimeslotISCP-LCR-InfoList-RL-SetupRgstTDD, id-TimeSlotLCR-CM-Rqst, id-UL-DPCH-LCR-Information-RL-SetupRqstTDD, id-UL-DPCH-LCR-InformationList-RL-SetupRgstTDD, id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD, id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD, id-TimeslotISCP-InformationList-LCR-RL-AdditionRgstTDD, id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD, id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD, id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD, id-DL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD, id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD, id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD, id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD, id-UL-DPCH-LCR-InformationModify-AddList, id-UL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD,

id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD, id-UL-SIRTarget, id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst, id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst, id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst, id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRgst, id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst, id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst, id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst, id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst, id-PUSCH-Info-DM-Rgst, id-PUSCH-Info-DM-Rsp, id-PUSCH-Info-DM-Rprt, id-RL-InformationResponse-LCR-RL-AdditionRspTDD, maxNrOfCCTrCHs, maxNrOfCellSvncBursts, maxNrOfCodes, maxNrOfCPCHs, maxNrOfDCHs, maxNrOfDLTSs, maxNrOfDLTSLCRs, maxNrOfDPCHs, maxNrOfDSCHs. maxNrOfFACHs, maxNrOfRLs, maxNrOfRLs-1, maxNrOfRLs-2, maxNrOfRLSets, maxNrOfPCPCHs, maxNrOfPDSCHs, maxNrOfPUSCHs, maxNrOfPRACHLCRs, maxNrOfPDSCHSets, maxNrOfPUSCHSets, maxNrOfReceptsPerSyncFrame, maxNrOfSCCPCHs, maxNrOfSCCPCHLCRs, maxNrOfULTSs, maxNrOfULTSLCRs, maxNrOfUSCHs, maxAPSigNum, maxCPCHCell, maxFACHCell, maxFPACHCell, maxNoofLen, maxRACHCell, maxPCPCHCell, maxPRACHCell, maxSCCPCHCell, maxSCPICHCell,

}

maxCellinNodeB, maxCCPinNodeB, maxCommunicationContext, maxLocalCellinNodeB, maxNrOfSlotFormatsPRACH, maxNrOfCellSyncBursts, maxNrOfReceptsPerSyncFrame, maxIB, maxIBSEG FROM NBAP-Constants;

# <Not affected part is omitted>

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RADIO LINK SETUP REQUEST FDD			
**********************************	* * * * *		
<pre>RadioLinkSetupRequestFDD ::= SEQUENCE {     protocolIEs</pre>	LinkSetupRequestFDD-IEs adioLinkSetupRequestFDD-	}, Extensions}}	OPTIONAL,
RadioLinkSetupRequestFDD-IES NBAP-PROTOCOL-IES ::= {     {        ID id-CRNC-CommunicationContextID             PRESENCE mandatory }     }	CRITICALITY reject	TYPE	CRNC-CommunicationContextID
{ ID id-UL-DPCH-Information-RL-SetupRqstFDD	CRITICALITY reject	TYPE	UL-DPCH-Information-RL-SetupRqstFDD
PRESENCE mandatory }  { ID id-DL-DPCH-Information-RL-SetupRqstFDD PRESENCE mandatory }	CRITICALITY reject	TYPE	DL-DPCH-Information-RL-SetupRqstFDD
{ ID id-DCH-FDD-Information CRITICALITY rej { ID id-DSCH-FDD-Information CRITICALITY rej	ect TYPE ect TYPE	DCH-FDD-Information DSCH-FDD-Information	PRESENCE mandatory }  PRESENCE optional }
{ ID id-TFCI2-Bearer-Information-RL-SetupRqstFDD SetupRqstFDD PRESENCE optional }	CRITICALITY ignore	.I.X.D.F.	TFC12-Bearer-Information-RL-
{ ID id-RL-InformationList-RL-SetupRqstFDD PRESENCE mandatory }	CRITICALITY notify	TYPE	RL-InformationList-RL-SetupRqstFDD
{ ID id-Transmission-Gap-Pattern-Sequence-Information PRESENCE optional }	CRITICALITY reject	TYPE Transmission-Ga	ap-Pattern-Sequence-Information
{ ID id-Active-Pattern-Sequence-Information CRI	TICALITY reject	TYPE Active-Pattern-Sequ	uence-Information PRESENCE optional },
}			
RadioLinkSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION { ID id-DSCH-FDD-Common-Information CRI' { ID id-DL-PowerBalancing-Information CRITICALITY	::= { TICALITY ignore EXTENSJ ignore EXTENSION	LON DSCH-FDD-Common-Informatic DL-PowerBalancing-Informatic	on PRESENCE optional $\lfloor \frac{1}{\tau} \rfloor$

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UL-DPCH-Information-RL-SetupRgstFDD ::= SEQUENCE {
    ul-ScramblingCode
                                            UL-ScramblingCode.
    minUL-ChannelisationCodeLength
                                            MinUL-ChannelisationCodeLength.
    maxNrOfUL-DPDCHs
                                            MaxNrOfUL-DPDCHs
                                                                     OPTIONAL.
    -- This IE shall be present if Min UL Channelisation Code length IE is set to 4 --
                                            PunctureLimit,
    ul-PunctureLimit
    + FCS
                                            TFCS,
    ul-DPCCH-SlotFormat
                                            UL-DPCCH-SlotFormat,
    ul-SIR-Target
                                            UL-SIR,
    diversitvMode
                                            DiversityMode,
    sSDT-CellID-Length
                                            SSDT-CellID-Length
                                                                     OPTIONAL,
    s-FieldLength
                                            S-FieldLength
                                                                     OPTIONAL,
                                            ProtocolExtensionContainer { { UL-DPCH-Information-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
UL-DPCH-Information-RL-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                            CRITICALITY reject EXTENSION DPC-Mode
    {ID id-DPC-Mode
                                                                         PRESENCE optional },
    . . .
}
DL-DPCH-Information-RL-SetupRqstFDD ::= SEQUENCE {
    + FCS
                                            TFCS,
    dl-DPCH-SlotFormat
                                            DL-DPCH-SlotFormat.
    tFCI-SignallingMode
                                            TFCI-SignallingMode,
    t.FCI-Presence
                                            TFCI-Presence OPTIONAL,
    -- this IE shall be present if the DL DPCH slot format IE is set to any of the values from 12 to 16 --
    multiplexingPosition
                                            MultiplexingPosition,
                                            RL-ID
    pDSCH-RL-ID
                                                             OPTIONAL,
    -- This IE shall be present if the DSCH Information IE is present --
    pDSCH-CodeMapping
                                            PDSCH-CodeMapping
                                                                     OPTIONAL,
    -- This IE shall be present if the DSCH Information IE is present --
    powerOffsetInformation
                                            PowerOffsetInformation-RL-SetupRqstFDD,
    fdd-TPC-DownlinkStepSize
                                            FDD-TPC-DownlinkStepSize,
    limitedPowerIncrease
                                            LimitedPowerIncrease,
    innerLoopDLPCStatus
                                            InnerLoopDLPCStatus,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
DL-DPCH-Information-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PowerOffsetInformation-RL-SetupRqstFDD ::= SEOUENCE {
    pO1-ForTFCI-Bits
                                            PowerOffset,
   pO2-ForTPC-Bits
                                            PowerOffset.
   pO3-ForPilotBits
                                            PowerOffset,
    iE-Extensions
                                            ProtocolExtensionContainer { { PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs } } OPTIONAL,
    . . .
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```

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PowerOffsetInformation-RL-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
TFCI2-Bearer-Information-RL-SetupRgstFDD ::= SEOUENCE {
    toAWS
                                         TOAWS,
    toAWE
                                        TOAWE,
    iE-Extensions
                                        ProtocolExtensionContainer { { TFCI2-Bearer-Information-RL-SetupRqstFDD-ExtIEs } }
                                                                                                                              OPTIONAL,
TFCI2-Bearer-Information-RL-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-InformationList-RL-SetupRgstFDD ::= SEOUENCE (SIZE (1..maxNrOfRLs)) OF
    ProtocolIE-Single-Container{{ RL-InformationItemIE-RL-SetupRqstFDD }}
RL-InformationItemIE-RL-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { TD
           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 shall be present if the RL is not the first one in the RL Information IE
                                        FDD-DL-CodeInformation,
    dl-CodeInformation
    initialDL-transmissionPower
                                        DL-Power,
    maximumDL-power
                                        DL-Power,
    minimumDL-power
                                        DL-Power,
    sSDT-Cell-Identity
                                        SSDT-Cell-Identity
                                                                     OPTIONAL,
    transmitDiversityIndicator
                                        TransmitDiversityIndicator
                                                                         OPTIONAL,
    -- This IE shall be present if Diversity Mode IE in UL DPCH Information group is not set to "none"
                                        ProtocolExtensionContainer { { RL-InformationItem-RL-SetupRqstFDD-ExtIEs} }
    iE-Extensions
                                                                                                                        OPTIONAL,
    . . .
RL-InformationItem-RL-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-SSDT-CellIDforEDSCHPC CRITICALITY ignore EXTENSION SSDT-Cell-Identity
                                                                                         PRESENCE conditional },
    -- This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Common Information IE.
    . . .
```

## <Not affected part is omitted>

-- RADIO LINK SETUP RESPONSE FDD ***** RadioLinkSetupResponseFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupResponseFDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}} OPTIONAL. . . . RadioLinkSetupResponseFDD-IEs NBAP-PROTOCOL-IES ::= { id-CRNC-CommunicationContextID CRITICALITY ignore CRNC-CommunicationContextID { ID TYPE PRESENCE mandatory } id-NodeB-CommunicationContextID NodeB-CommunicationContextID { ID CRITICALITY ignore TYPE PRESENCE mandatory } { ID id-CommunicationControlPortID CRITICALITY ignore TYPE CommunicationControlPortID PRESENCE mandatory }| id-RL-InformationResponseList-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-{ ID PRESENCE mandatory }| SetupRspFDD id-TFCI2-BearerInformationResponse CRITICALITY ignore TYPE TFCI2-BearerInformationResponse PRESENCE optional } ID ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RadioLinkSetupResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . RL-InformationResponseList-RL-SetupRspFDD ::= SEOUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container{{ RL-InformationResponseItemIE-RL-SetupRspFDD }} RL-InformationResponseItemIE-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= { { ID id-RL-InformationResponseItem-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseItem-RL-SetupRspFDD PRESENCE mandatory} } RL-InformationResponseItem-RL-SetupRspFDD ::= SEOUENCE { rL-ID RL-ID, rL-Set-ID RL-Set-ID, received-total-wide-band-power Received-total-wide-band-power-Value, 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. dSCH-InformationResponseList DSCH-InformationResponseList-RL-SetupRspFDD OPTIONAL, sSDT-SupportIndicator SSDT-SupportIndicator,

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ProtocolExtensionContainer { { RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs } }
   iE-Extensions
                                                                                                                                 OPTIONAL,
    . . .
RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   { ID id-DL-PowerBalancing-ActivationIndicator CRITICALITY ignore
                                                                      EXTENSION
                                                                                     DL-PowerBalancing-ActivationIndicator
                                                                                                                           PRESENCE
optional},
   . . .
}
DiversityIndication-RL-SetupRspFDD ::= CHOICE {
    combining
                                            Combining-RL-SetupRspFDD,
   nonCombiningOrFirstRL
                                            NonCombiningOrFirstRL-RL-SetupRspFDD
Combining-RL-SetupRspFDD ::= SEQUENCE {
   rL-ID
                                            RL-ID,
   iE-Extensions
                                            ProtocolExtensionContainer { { Combining-RL-SetupRspFDD-ExtIEs} }
                                                                                                              OPTIONAL,
    . . .
}
Combining-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
NonCombiningOrFirstRL-RL-SetupRspFDD ::= SEQUENCE
   dCH-InformationResponse
                                            DCH-InformationResponse,
   iE-Extensions
                                                ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs } }
                                                                                                                              OPTIONAL,
    . . .
}
NonCombiningOrFirstRLItem-RL-SetupRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DSCH-InformationResponseList-RL-SetupRspFDD ::= ProtocollE-Single-Container {{ DSCH-InformationResponseListIEs-RL-SetupRspFDD }}
DSCH-InformationResponseListIEs-RL-SetupRspFDD NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponse CRITICALITY ignore TYPE DSCH-InformationResponse
                                                                                         PRESENCE mandatory }
}
<Not affected part is omitted>
___
-- RADIO LINK SETUP FAILURE FDD
_ _
```

RadioLinkSetupFailureFDD ::= SEQUENCE {

```
{{RadioLinkSetupFailureFDD-IEs}},
    protocolIEs
                            ProtocolIE-Container
    protocolExtensions
                            ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}}
                                                                                                                      OPTIONAL,
    . . .
RadioLinkSetupFailureFDD-IES NBAP-PROTOCOL-IES ::= {
           id-CRNC-CommunicationContextID
                                                                             CRITICALITY
    { ID
                                                                                             ignore
                                                                                                                           TYPE CRNC-
CommunicationContextID
                                                         PRESENCE
                                                                     mandatory }|
    { ID
           id-NodeB-CommunicationContextID
                                                                             CRITICALITY
                                                                                             ignore
                                                                                                                           TYPE NodeB-
CommunicationContextID
                                                     PRESENCE
                                                                 conditional }
    -- This IE shall be present if at least one of the radio links has been successfully set up
           id-CommunicationControlPortID
                                                                             CRITICALITY
                                                                                                                           TYPE
    { ID
                                                                                              ignore
    CommunicationControlPortID
                                                                 PRESENCE
                                                                             optional
                                                                                         }|
    { ID
           id-CauseLevel-RL-SetupFailureFDD
                                                                             CRITICALITY
                                                                                                                           TYPE
                                                                                                                                 CauseLevel-RL-
                                                                                             ignore
SetupFailureFDD
                    PRESENCE mandatory
                                            }|
    { ID
           id-CriticalityDiagnostics
                                                                             CRITICALITY
                                                                                             ignore
                                                                                                                           TYPE CriticalityDiagnostics
                                    PRESENCE
                                                optional
                                                            },
    . . .
RadioLinkSetupFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
CauseLevel-RL-SetupFailureFDD ::= CHOICE {
    generalCause
                        GeneralCauseList-RL-SetupFailureFDD,
                        RLSpecificCauseList-RL-SetupFailureFDD,
    rLSpecificCause
    . . .
GeneralCauseList-RL-SetupFailureFDD ::= SEQUENCE
    cause
                                                Cause,
    iE-Extensions
                                                ProtocolExtensionContainer { { GeneralCauseItem-RL-SetupFailureFDD-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
GeneralCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
RLSpecificCauseList-RL-SetupFailureFDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespList-RL-SetupFailureFDD
                                                                 Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD,
    successful-RL-InformationRespList-RL-SetupFailureFDD
                                                                 Successful-RL-InformationRespList-RL-SetupFailureFDD OPTIONAL,
                                                ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                    OPTIONAL,
    . . .
RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

Unsuccessful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD }} Unsuccessful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= { { ID id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD TYPE Unsuccessful-RL-CRITICALITY ignore InformationRespItem-RL-SetupFailureFDD PRESENCE mandatory } Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE { rL-ID RL-ID, cause Cause, iE-Extensions ProtocolExtensionContainer { { Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL, . . . Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . } Successful-RL-InformationRespList-RL-SetupFailureFDD ::= SEQUENCE (SIZE (1.. maxNrOfRLs)) OF ProtocolIE-Single-Container {{ Successful-RL-InformationRespItemIE-RL-SetupFailureFDD }} Successful-RL-InformationRespItemIE-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= id-Successful-RL-InformationRespItem-RL-SetupFailureFDD { ID CRITICALITY ignore TYPE Successful-RL-InformationRespItem-RL-SetupFailureFDD mandatory } PRESENCE Successful-RL-InformationRespItem-RL-SetupFailureFDD ::= SEQUENCE { rL-ID RL-ID, rL-Set-ID RL-Set-ID, received-total-wide-band-power Received-total-wide-band-power-Value, 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. dSCH-InformationResponseList DSCH-InformationRespList-RL-SetupFailureFDD OPTIONAL, tFCI2-BearerInformationResponse TFCI2-BearerInformationResponse OPTIONAL, sSDT-SupportIndicator SSDT-SupportIndicator, ProtocolExtensionContainer { { Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs } } iE-Extensions OPTIONAL, . . . Successful-RL-InformationRespItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-DL-PowerBalancing-ActivationIndicator CRITICALITY ignore DL-PowerBalancing-ActivationIndicator EXTENSION PRESENCE optional}, . . . DiversityIndication-RL-SetupFailureFDD ::= CHOICE { combining Combining-RL-SetupFailureFDD,

```
nonCombiningOrFirstRL
                                        NonCombiningOrFirstRL-RL-SetupFailureFDD
}
Combining-RL-SetupFailureFDD ::= SEQUENCE {
   rL-TD
                                            RL-ID,
                                            ProtocolExtensionContainer { { CombiningItem-RL-SetupFailureFDD-ExtIEs } }
   iE-Extensions
                                                                                                                  OPTIONAL,
    . . .
CombiningItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
NonCombiningOrFirstRL-RL-SetupFailureFDD ::= SEQUENCE {
   dCH-InformationResponse
                                            DCH-InformationResponse,
   iE-Extensions
                                                ProtocolExtensionContainer { { NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs } }
                                                                                                                                   OPTIONAL,
    . . .
NonCombiningOrFirstRLItem-RL-SetupFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DSCH-InformationRespList-RL-SetupFailureFDD ::= ProtocolIE-Single-Container {{ DSCH-InformationRespListIEs-RL-SetupFailureFDD }}
DSCH-InformationRespListIEs-RL-SetupFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponse CRITICALITY ignore TYPE DSCH-InformationResponse
                                                                                        PRESENCE mandatory }
<Not affected part is omitted>
  _ _
-- RADIO LINK ADDITION REQUEST FDD
   RadioLinkAdditionRequestFDD ::= SEQUENCE {
   protocolIEs
                ProtocolIE-Container
                                                {{RadioLinkAdditionRequestFDD-IEs}},
                         ProtocolExtensionContainer {{RadioLinkAdditionRequestFDD-Extensions}}
   protocolExtensions
                                                                                                               OPTIONAL,
   . . .
}
RadioLinkAdditionRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-NodeB-CommunicationContextID
                                                       CRITICALITY reject
                                                                                 TYPE
                                                                                        NodeB-CommunicationContextID
                                                                                                                             PRESENCE
   mandatory } |
    { ID id-Compressed-Mode-Deactivation-Flag
                                                CRITICALITY reject
                                                                             TYPE Compressed-Mode-Deactivation-Flag PRESENCE optional }
        id-RL-InformationList-RL-AdditionRqstFDD
                                                          CRITICALITY notify
                                                                                    TYPE
                                                                                                          RL-InformationList-RL-
    { ID
                PRESENCE mandatory },
AdditionRqstFDD
    . . .
```

1

}					
RadioLinkAdditionRequestFDD	-Extensions NBAP-PROTOCOL-EXTENSION	1 ::= {			
}					
RL-InformationList-RL-Addit AdditionRqstFDD}}	ionRqstFDD ::= SEQUENCE (SIZE (1.	.maxNrOfRLs-1)) OF 1	rotocolIE-Sing	le-Container {{ RL-	InformationItemIE-RL-
RL-InformationItemIE-RL-Add { ID id-RL-Informati AdditionRqstFDD PRE. }	itionRqstFDD NBAP-PROTOCOL-IES ::= onItem-RL-AdditionRqstFDD SENCE mandatory}	{ CRITICALITY no	tify	TYPE	RL-InformationItem-RL-
<pre>RL-InformationItem-RL-Addit     rL-ID     c-ID     frameOffset     diversityControlField     dl-CodeInformation     initialDL-TransmissionP     maximumDL-Power     minimumDL-Power     sSDT-CellIdentity     transmitDiversityIndica     iE-Extensions  }</pre>	ionRqstFDD ::= SEQUENCE {     RL-ID,     C-ID,     FrameOffset,     DiversityContr     FDD-DL-CodeInforma ower DL-Power     DL-Power     DL-Power     SSDT-Cell-Iden tor TransmitDivers     ProtocolExtens	rolField, ation, OI OI OI atity OI sityIndicator OI sionContainer { { RL-	TIONAL, TIONAL, TIONAL, TIONAL, TIONAL, InformationIte	n-RL-AdditionRqstFD	D-ExtIEs} } OPTIONAL,
RL-InformationItem-RL-Addit { ID id-DLReferencePowe	ionRqstFDD-ExtIEs NBAP-PROTOCOL-EXT r CRITICALITY ignore EXTENS	TENSION ::= { SION DL-Power	PRESENCE opt	ional},	
···· }					
<not affected="" is<="" part="" td=""><td>omitted&gt;</td><td></td><td></td><td></td><td></td></not>	omitted>				
********************	* * * * * * * * * * * * * * * * * * * *	* * *			
RADIO LINK ADDITION RESP	ONSE FDD				
***********************************	******	* * *			
<pre>RadioLinkAdditionResponseFD: protocolIEs protocolExtensions  }</pre>	D ::= SEQUENCE { ProtocolIE-Container {{RadioLin ProtocolExtensionContainer {{Radi	kAdditionResponseFDI oLinkAdditionRespons	D-IEs}}, eFDD-Extension	5}}	OPTIONAL,
RadioLinkAdditionResponseFD	D-IES NBAP-PROTOCOL-IES ::= {				

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```
{ ID
            id-CRNC-CommunicationContextID
                                                                     CRITICALITY
                                                                                     ignore
                                                                                                                        TYPE CRNC-CommunicationContextID
                        PRESENCE
                                    mandatory }
    { ID
            id-RL-InformationResponseList-RL-AdditionRspFDD
                                                                     CRITICALITY
                                                                                     ignore
                                                                                                                        TYPE RL-InformationResponseList-
RL-AdditionRspFDD PRESENCE
                                mandatory
                                            }|
            id-CriticalityDiagnostics
                                                                                                                        TYPE CriticalityDiagnostics
    { ID
                                                                     CRITICALITY
                                                                                     ignore
                    PRESENCE
                                optional
                                            },
    . . .
RadioLinkAdditionResponseFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
}
RL-InformationResponseList-RL-AdditionRspFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container {{ RL-InformationResponseItemIE-RL-
AdditionRspFDD } }
RL-InformationResponseItemIE-RL-AdditionRspFDD NBAP-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.
    received-total-wide-band-power
                                                                             Received-total-wide-band-power-Value,
    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,
                                                     ProtocolExtensionContainer { { RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                                OPTIONAL,
RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-PowerBalancing-ActivationIndicator CRITICALITY ignore
                                                                             EXTENSION
                                                                                             DL-PowerBalancing-ActivationIndicator
                                                                                                                                      PRESENCE
optional},
    . . .
DiversityIndication-RL-AdditionRspFDD ::= CHOICE {
    combining
                                                     Combining-RL-AdditionRspFDD,
    non-combining
                                                    Non-Combining-RL-AdditionRspFDD
}
Combining-RL-AdditionRspFDD ::= SEQUENCE {
    rL-ID
                                                     RL-ID,
    iE-Extensions
                                                     ProtocolExtensionContainer { { CombiningItem-RL-AdditionRspFDD-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
CombiningItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
} ```
} ```
Non-Combining-RL-AdditionRspFDD ::= SEQUENCE {
    dCH-InformationResponse,
    iE-Extensions ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionRspFDD-ExtIEs } } OPTIONAL,
    ```
} ```
Non-CombiningItem-RL-AdditionRspFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ```
} ```

Not affected part is omitted>
```

```
_ _
-- RADIO LINK ADDITION FAILURE FDD
_ _
        RadioLinkAdditionFailureFDD ::= SEQUENCE {
                                               {{RadioLinkAdditionFailureFDD-IEs}},
   protocolIEs
                         ProtocolIE-Container
                         ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}}
   protocolExtensions
                                                                                                             OPTIONAL,
   . . .
}
RadioLinkAdditionFailureFDD-IEs NBAP-PROTOCOL-IES ::= {
          id-CRNC-CommunicationContextID
                                                                                 CRNC-CommunicationContextID
     ТD
                                               CRITICALITY
                                                              ignore
                                                                         TYPE
                                                                                                                  PRESENCE mandatory
     ID
          id-CauseLevel-RL-AdditionFailureFDD
                                               CRITICALITY
                                                              ignore
                                                                         TYPE
                                                                                 CauseLevel-RL-AdditionFailureFDD
                                                                                                                  PRESENCE mandatory
    ID
          id-CriticalityDiagnostics
                                                                         TYPE
                                                                                 CriticalityDiagnostics
                                                                                                                     PRESENCE optional
                                               CRITICALITY
                                                              ignore
                                                                                                                                        },
    . . .
RadioLinkAdditionFailureFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
CauseLevel-RL-AdditionFailureFDD ::= CHOICE
                     GeneralCauseList-RL-AdditionFailureFDD,
   generalCause
   rLSpecificCause
                     RLSpecificCauseList-RL-AdditionFailureFDD,
   . . .
GeneralCauseList-RL-AdditionFailureFDD ::= SEQUENCE {
   cause
                                            Cause,
   iE-Extensions
                                            ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs } }
                                                                                                                          OPTIONAL,
    . . .
```

```
GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RLSpecificCauseList-RL-AdditionFailureFDD ::= SEQUENCE {
    unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                    Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD,
    successful-RL-InformationRespList-RL-AdditionFailureFDD
                                                                     Successful-RL-InformationRespList-RL-AdditionFailureFDD OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs } }
                                                                                                                                          OPTIONAL,
    . . .
RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Unsuccessful-RL-InformationRespList-RL-AdditionFailureFDD ::= SEOUENCE (SIZE (1..maxNrOfRLs-1)) OF ProtocolIE-Single-Container {{ Unsuccessful-RL-
InformationRespItemIE-RL-AdditionFailureFDD }}
Unsuccessful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
           id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD
                                                                                 CRITICALITY
                                                                                                                       TYPE Unsuccessful-RL-
    { ID
                                                                                                 ignore
InformationRespItem-RL-AdditionFailureFDD PRESENCE
                                                        mandatory }
}
Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD ::= SEOUENCE {
    rL-ID
                                                RL-ID,
    cause
                                                Cause,
                                                ProtocolExtensionContainer { { Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Successful-RL-InformationRespList-RL-AdditionFailureFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs-2)) OF ProtocolIE-Single-Container {{ Successful-RL-
InformationRespItemIE-RL-AdditionFailureFDD }}
Successful-RL-InformationRespItemIE-RL-AdditionFailureFDD NBAP-PROTOCOL-IES ::= {
    { ID
           id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD
                                                                             CRITICALITY
                                                                                             ignore
                                                                                                                       TYPE Successful-RL-
InformationRespItem-RL-AdditionFailureFDD
                                                PRESENCE
                                                            mandatory }
Successful-RL-InformationRespItem-RL-AdditionFailureFDD ::= SEQUENCE {
    rL-ID
                                                RL-ID,
    rL-Set-ID
                                                RL-Set-ID,
    received-total-wide-band-power
                                                Received-total-wide-band-power-Value,
    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,
```

```
ProtocolExtensionContainer { { Successful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
Successful-RL-InformationRespItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-PowerBalancing-ActivationIndicator CRITICALITY ignore
                                                                              EXTENSION
                                                                                              DL-PowerBalancing-ActivationIndicator
                                                                                                                                        PRESENCE
optional},
    . . .
DiversityIndication-RL-AdditionFailureFDD ::= CHOICE {
    combining
                                     Combining-RL-AdditionFailureFDD,
    non-Combining
                                    Non-Combining-RL-AdditionFailureFDD
}
Combining-RL-AdditionFailureFDD ::= SEOUENCE {
    rL-ID
                                                 RL-ID,
    iE-Extensions
                                                 ProtocolExtensionContainer { { CombiningItem-RL-AdditionFailureFDD-ExtIEs } }
                                                                                                                                     OPTIONAL.
    . . .
CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
Non-Combining-RL-AdditionFailureFDD ::= SEQUENCE
    dCH-InformationResponse
                                                 DCH-InformationResponse,
                                                     ProtocolExtensionContainer { { Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                               OPTIONAL,
    . . .
Non-CombiningItem-RL-AdditionFailureFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

## <Not affected part is omitted>

## 9.3.4 Information Elements Definitions

--

-- Information Element Definitions

NBAP-IEs {
 itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
 umts-Access (20) modules (3) nbap (2) version1 (1) nbap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::= BEGIN

IMPORTS

maxNrOfRLs, maxNrOfTFCs, maxNrOfErrors, maxCTFC, maxNrOfTFs, maxTTI-count, maxRateMatching, maxCodeNrComp-1, maxNrOfCellSyncBursts, maxNrOfCodeGroups, maxNrOfMeasNCell, maxNrOfMeasNCell-1, maxNrOfReceptsPerSyncFrame, maxNrOfTFCIGroups, maxNrOfTFCI1Combs, maxNrOfTFCI2Combs, maxNrOfTFCI2Combs-1, maxNrOfSF, maxTGPS, maxNrOfUSCHs, maxNrOfULTSs, maxNrOfULTSLCRs, maxNrOfDPCHs, maxNrOfDPCHLCRs, maxNrOfCodes, maxNrOfDSCHs, maxNrOfDLTSs, maxNrOfDLTSLCRs, maxNrOfDCHs, maxNrOfLevels, maxNoGPSItems, maxNoSat, id-MessageStructure, id-ReportCharacteristicsType-OnModification, id-Rx-Timing-Deviation-Value-LCR, id-SFNSFNMeasurementValueInformation, id-SFNSFNMeasurementThresholdInformation, id-TUTRANGPSMeasurementValueInformation, id-TUTRANGPSMeasurementThresholdInformation, id-TypeOfError FROM NBAP-Constants

Criticality, ProcedureID, ProtocolIE-ID,

```
TransactionID,
TriggeringMessage
FROM NBAP-CommonDataTypes
```

NBAP-PROTOCOL-IES, ProtocolExtensionContainer{}, ProtocolIE-Single-Container{}, NBAP-PROTOCOL-EXTENSION FROM NBAP-Containers;

## <Not affected part is omitted>

```
-- C
Cause ::= CHOICE {
   radioNetwork
                         CauseRadioNetwork,
   transport
                     CauseTransport,
   protocol
                         CauseProtocol,
                         CauseMisc,
   misc
   . . .
CauseMisc ::= ENUMERATED {
   control-processing-overload,
   hardware-failure,
   oam-intervention,
   not-enough-user-plane-processing-resources,
   unspecified,
   . . .
CauseProtocol ::= ENUMERATED {
   transfer-syntax-error,
   abstract-syntax-error-reject,
   abstract-syntax-error-ignore-and-notify,
   message-not-compatible-with-receiver-state,
   semantic-error,
   unspecified,
   abstract-syntax-error-falsely-constructed-message,
   . . .
CauseRadioNetwork ::= ENUMERATED {
   unknown-C-ID,
   cell-not-available,
   power-level-not-supported,
   dl-radio-resources-not-available,
```

ul-radio-resources-not-available,

rl-already-ActivatedOrAlocated, nodeB-Resources-unavailable, measurement-not-supported-for-the-object, combining-resources-not-available, requested-configuration-not-supported, synchronisation-failure, priority-transport-channel-established, sIB-Origination-in-Node-B-not-Supported, requested-tx-diversity-mode-not-supported, unspecified, bCCH-scheduling-error, measurement-temporarily-not-available, invalid-CM-settings, reconfiguration-CFN-not-elapsed, number-of-DL-codes-not-supported, s-cipch-not-supported, combining-not-supported, ul-sf-not-supported, dl-SF-not-supported, common-transport-channel-type-not-supported, dedicated-transport-channel-type-not-supported, downlink-shared-channel-type-not-supported, uplink-shared-channel-type-not-supported, cm-not-supported, tx-diversity-no-longer-supported, unknown-Local-Cell-ID, . . . , number-of-UL-codes-not-supported, information-temporarily-not-available, information-provision-not-supported-for-the-object, cell-synchronisation-not-supported, synchronisation-adjustment-not-supported, dpc-mode-change-not-supported, iPDL-already-activated, iPDL-not-supported, iPDL-parameters-not-available, frequency-acquisition-not-supported, power-balancing-status-not-compatible

CauseTransport ::= ENUMERATED {
 transport-resource-unavailable,
 unspecified,
 ...

```
}
```

## <Not affected part is omitted>

DLPowerAveragingWindowSize ::= INTEGER (1..60)

DL-PowerBalancing-Information ::= SEQUENCE {
powerAdjustmentType PowerAdjustmentType,
dLReferencePower DL-Power OPTIONAL,
This IE shall be present if Power Adjustment Type IE equals to 'Common'
dLReferencePowerList-DL-PC-Rgst DL-ReferencePowerInformationList OPTIONAL,
This IE shall be present if Power Adjustment Type IE equals to 'Individual'
maxAdjustmentStep MaxAdjustmentStep OPTIONAL,
This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
adjustmentPeriod AdjustmentPeriod OPTIONAL,
This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
adjustmentRatio ScaledAdjustmentRatio OPTIONAL,
This IE shall be present if Power Adjustment Type IE equals to 'Common' or 'Individual'
iE-Extensions ProtocolExtensionContainer { { DL-PowerBalancing-Information-ExtIEs } } OPTIONAL,
····
DL-PowerBalancing-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-ReferencePowerInformationList ::= SEQUENCE (SIZE (1maxNrOfRLs)) OF DL-ReferencePowerInformationItem
DL-ReferencePowerInformationItem ::= SFOUENCE /
dl_Reterence_Bower DL_Bower
dl-Reference-Power DL-Power,
dl-Reference-Power     DL-Power,       iE-Extensions     ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs} } OPTIONAL,
dl-Reference-Power       DL-Power,         iE-Extensions       ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs} } OPTIONAL,
dl-Reference-Power     DL-Power,       iE-Extensions     ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs} } OPTIONAL,           }
dl-Reference-Power       DL-Power,         iE-Extensions       ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs} } OPTIONAL,             }
dl-Reference-Power       DL-Power,         iE-Extensions       ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs } } OPTIONAL,             J       DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
d1-Reference-Power       DL-Power,         iE-Extensions       ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs} } OPTIONAL,          }         DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
d1-Reference-Power       DL-Power,         iE-Extensions       ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs} } OPTIONAL,             DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
d1-Reference-Power       DL-Power,         iE-Extensions       ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs} } OPTIONAL,             DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
d1-Reference-Power       DL-Power,         iE-Extensions       ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs} } OPTIONAL,             J       DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {             J          DL-PowerBalancing-ActivationIndicator       ::= ENUMERATED {
d1-Reference-Power       DL-Power,         iE-Extensions       ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs} } OPTIONAL,             J       DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {             J          DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {             J          DL-PowerBalancing-ActivationIndicator       ::= ENUMERATED {
d1-Reference-Power       DL-Power,         iE-Extensions       ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs} } OPTIONAL,             J       DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {             J          DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {             J          DL-PowerBalancing-ActivationIndicator ::= ENUMERATED {             J
d1-Reference-Power       DL-Power,         iE-Extensions       ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs} } OPTIONAL,             J       DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {             J       DL-PowerBalancing-ActivationIndicator ::= ENUMERATED {         dL-PowerBalancing-Activated
d1-Reference-Power       DL-Power,         iE-Extensions       ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs } } OPTIONAL,             DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {            DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {            DL-PowerBalancing-ActivationIndicator            DL-PowerBalancing-Activated            DL-ScramblingCode            DL-ScramblingCode <t< td=""></t<>
d1-Reference-Power       DL-Power,         iE-Extensions       ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs } } OPTIONAL,             DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {            DL-PowerBalancing-ActivationIndicator            DL-PowerBalancing-Activated            DL-ScramblingCode ::= INTEGER (015)         0= Primary scrambling code of the cell, 115= Secondary scrambling code
dl-Reference-Power       DL-Power,         iE-Extensions       ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs } OPTIONAL,             DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {            DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {            DL-ReferencePowerInformationIndicator            DL-PowerBalancing-ActivationIndicator            DL-PowerBalancing-Activated            DL-ScramblingCode ::= INTEGER (015)         0= Primary scrambling code of the cell, 115= Secondary scrambling code
dl-Reference-Power       DL-Power,         iE-Extensions       ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs } } OPTIONAL,             DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {            DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {            DL-ReferencePowerInformationIndicator                  DL-PowerBalancing-ActivationIndicator               DL-PowerBalancing-Activated               DL-ScramblingCode ::= INTEGER (015)
d1-Reference-Power       DL-Power,         iE-Extensions       ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs } } OPTIONAL,             DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {            DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {            DL-PowerBalancing-ActivationIndicator            DL-PowerBalancing-Activated            DL-ScramblingCode ::= INTEGER (015)               OL-Scrambling code of the cell, 115= Secondary scrambling code <not affected="" is="" omitted="" part=""></not>
d1-Reference-Power       DL-Power, iE-Extensions       DD-Power, ProtocolExtensionContainer { {DL-ReferencePowerInformationItem-ExtIEs } } OPTIONAL, DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { DL-ReferencePowerInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { DL-ReferencePowerInformationIndicator          I          DL-PowerBalancing-ActivationIndicator          I          DL-PowerBalancing-Activated         I          DL-ScramblingCode ::= INTEGER (015) 0= Primary scrambling code of the cell, 115= Secondary scrambling code <not affected="" is="" omitted="" part=""></not>

# 9.3.6 Constant Definitions

NBAP-Constants {
 itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
 umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Constants (4)}

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS ProcedureCode, ProtocolIE-ID FROM NBAP-CommonDataTypes;

id-cellDeletion ProcedureCode ::= 3id-cellReconfiguration ProcedureCode ::= 4 id-cellSetup ProcedureCode ::= 5id-cellSynchronisationInitiation ProcedureCode ::= 39 id-cellSynchronisationReconfiguration ProcedureCode ::= 40 ProcedureCode ::= 41 id-cellSynchronisationReporting ProcedureCode ::= 42 id-cellSynchronisationTermination id-cellSynchronisationFailure ProcedureCode ::= 43id-commonMeasurementFailure ProcedureCode ::= 6 id-commonMeasurementInitiation ProcedureCode ::= 7id-commonMeasurementReport ProcedureCode ::= 8 id-commonMeasurementTermination ProcedureCode ::= 9 id-commonTransportChannelDelete ProcedureCode ::= 10 id-commonTransportChannelReconfigure ProcedureCode ::= 11 id-commonTransportChannelSetup ProcedureCode ::= 12 id-compressedModeCommand ProcedureCode ::= 14 id-dedicatedMeasurementFailure ProcedureCode ::= 16 id-dedicatedMeasurementInitiation ProcedureCode ::= 17 id-dedicatedMeasurementReport ProcedureCode ::= 18 id-dedicatedMeasurementTermination ProcedureCode ::= 19 id-downlinkPowerControl ProcedureCode ::= 20 id-downlinkPowerTimeslotControl ProcedureCode ::= 38 id-errorIndicationForCommon ProcedureCode ::= 35 id-errorIndicationForDedicated ProcedureCode ::= 21 id-informationExchangeFailure ProcedureCode ::= 40 id-informationExchangeInitiation ProcedureCode ::= 41 ProcedureCode ::= 42 id-informationExchangeTermination id-informationReporting ProcedureCode ::= 43

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### Release 4

id-physicalSharedChannelReconfiguration	ProcedureCode	::=	37
id-privateMessageForCommon	ProcedureCode	::=	36
id-privateMessageForDedicated	ProcedureCode	::=	22
id-radioLinkAddition	ProcedureCode	::=	23
id-radioLinkDeletion	ProcedureCode	::=	24
id-radioLinkFailure	ProcedureCode	::=	25
id-radioLinkPreemption	ProcedureCode	::=	39
id-radioLinkRestoration	ProcedureCode	::=	26
id-radioLinkSetup	ProcedureCode	::=	27
id-reset	ProcedureCode	::=	13
id-resourceStatusIndication	ProcedureCode	::=	28
id-cellSynchronisationAdjustment	ProcedureCode	::=	44
id-synchronisedRadioLinkReconfigurationCancellation	ProcedureCode	::=	29
id-synchronisedRadioLinkReconfigurationCommit	ProcedureCode	::=	30
id-synchronisedRadioLinkReconfigurationPreparation	ProcedureCode	::=	31
id-systemInformationUpdate	ProcedureCode	::=	32
id-unblockResource	ProcedureCode	::=	33
id-unSynchronisedRadioLinkReconfiguration	ProcedureCode	::=	34

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-- Lists

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maxNrOfCodes	INTEGER	::=	10
maxNrOfDLTSs	INTEGER	::=	15
maxNrOfDLTSLCRs	INTEGER	::=	6
maxNrOfErrors	INTEGER	::=	256
maxNrOfTFs	INTEGER	::=	32
maxNrOfTFCs	INTEGER	::=	1024
maxNrOfRLs	INTEGER	::=	16
maxNrOfRLs-1	INTEGER	::=	15 maxNrOfRLs - 1
maxNrOfRLs-2	INTEGER	::=	14 maxNrOfRLs - 2
maxNrOfRLSets	INTEGER	::=	maxNrOfRLs
maxNrOfDPCHs	INTEGER	::=	240
maxNrOfDPCHLCRs	INTEGER	::=	240
maxNrOfSCCPCHs	INTEGER	::=	8
maxNrOfCPCHs	INTEGER	::=	16
maxNrOfPCPCHs	INTEGER	::=	64
maxNrOfDCHs	INTEGER	::=	128
maxNrOfDSCHs	INTEGER	::=	32
maxNrOfFACHs	INTEGER	::=	8
maxNrOfCCTrCHs	INTEGER	::=	16
maxNrOfPDSCHs	INTEGER	::=	256
maxNrOfPUSCHs	INTEGER	::=	256
maxNrOfPDSCHSets	INTEGER	::=	256
maxNrOfPRACHLCRs	INTEGER	::=	8
maxNrOfPUSCHSets	INTEGER	::=	256
maxNrOfSCCPCHLCRs	INTEGER	::=	8
maxNrOfULTSs	INTEGER	::=	15

maxNrOfULTSLCRs	INTEGER	::=	6	
maxNrOiUSCHs	INTEGER	::=	32	
maxAPSigNum	INTEGER	::=	16	
maxNrOfSlotFormatsPRACH	INTEGER	::=	8	
maxCellinNodeB	INTEGER	::=	256	
maxCCPinNodeB	INTEGER	::=	256	
maxCPCHCell	INTEGER	::=	maxNrOfCPCHs	
maxCTFC	INTEGER	::=	16777215	
maxLocalCellinNodeB	INTEGER	::=	maxCellinNodeB	
maxNoofLen	INTEGER	::=	7	
maxFPACHCell	INTEGER	::=	8	
maxRACHCell	INTEGER	::=	maxPRACHCell	
maxPRACHCell	INTEGER	::=	16	
maxPCPCHCell	INTEGER	::=	64	
maxSCCPCHCell	INTEGER	::=	32	
maxSCPICHCell	INTEGER	::=	32	
maxTTI-count	INTEGER	::=	4	
maxIBSEG	INTEGER	::=	16	
maxIB	INTEGER	::=	64	
maxFACHCell	INTEGER	::=	256 maxNrOfFACHs * maxS0	CCPCHCell
maxRateMatching	INTEGER	::=	256	
maxCodeNrComp-1	INTEGER	::=	256	
maxNrOfCellSyncBursts	INTEGER	::=	10	
maxNrOfCodeGroups	INTEGER	::=	256	
maxNrOfReceptsPerSyncFrame	INTEGER	::=	16	
maxNrOfMeasNCell	INTEGER	::=	96	
maxNrOfMeasNCell-1	INTEGER	::=	95 maxNrOfMeasNCell - 1	L
maxNrOfTFCIGroups	INTEGER	::=	256	
maxNrOfTFCI1Combs	INTEGER	::=	512	
maxNrOfTFCI2Combs	INTEGER	::=	1024	
maxNrOfTFCI2Combs-1	INTEGER	::=	1023	
maxNrOfSF	INTEGER	::=	8	
maxTGPS	INTEGER	::=	б	
maxCommunicationContext	INTEGER	::=	1048575	
maxNrOfLevels	INTEGER	::=	256	
maxNoSat	INTEGER	::=	16	
maxNoGPSItems	INTEGER	::=	8	
		. بار بار بار		
*******************	* * * * * * * * *	***	* * * * * * * * * * * * * * * * * * * *	
IES				
*********************	*******	***	* * * * * * * * * * * * * * * * * * * *	
id-AICH-Information				ProtocollE-ID := 0
id-AICH-InformationItem-Res	urceStat	ug Ti	nd	ProtocolIE-ID := 1
id-BCH-Information				$\frac{1}{2} = \frac{1}{2}$
id-BCH-InformationItem-Pego	irceStati	ISTr	4	$\frac{1}{2} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2}$
id-BCCH-ModificationTime			4	ProtocolIE-ID ::= 9
id-BlockingPriorityIndicator	~			ProtocolIE-ID ::= 10
id-Cause	-			ProtocolIE-ID ::= 13

id-CCP-InformationItem-AuditRsp	ProtocolIE-ID ::= 14
id-CCP-InformationList-AuditRsp	ProtocolIE-ID ::= 15
id-CCP-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 16
id-Cell-InformationItem-AuditRsp	ProtocolIE-ID ::= 17
id-Cell-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 18
id-Cell-InformationList-AuditRsp	ProtocolIE-ID ::= 19
id-CellParameterID	ProtocolIE-ID ::= 23
id-CFN	ProtocolIE-ID ::= 24
id-C-ID	ProtocolIE-ID ::= 25
id-CommonMeasurementAccuracy	ProtocolIE-ID ::= 39
id-CommonMeasurementObjectType-CM-Rprt	ProtocolIE-ID ::= 31
id-CommonMeasurementObjectType-CM-Rqst	ProtocolIE-ID ::= 32
id-CommonMeasurementObjectType-CM-Rsp	ProtocolIE-ID ::= 33
id-CommonMeasurementType	ProtocolIE-ID ::= 34
id-CommonPhysicalChannelID	ProtocolIE-ID ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 37
id-CommunicationControlPortID	ProtocolIE-ID ::= 40
id-ConfigurationGenerationID	ProtocolIE-ID ::= 43
id-CRNC-CommunicationContextID	ProtocolIE-ID ::= 44
id-CriticalityDiagnostics	ProtocolIE-ID ::= 45
id-DCHs-to-Add-FDD	ProtocolIE-ID ::= 48
id-DCH-AddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 49
id-DCHs-to-Add-TDD	ProtocolIE-ID ::= 50
id-DCH-DeleteList-RL-ReconfPrepFDD	ProtocolIE-ID ::= 52
id-DCH-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 53
id-DCH-DeleteList-RL-ReconfRqstFDD	ProtocolIE-ID ::= 54
id-DCH-DeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 55
id-DCH-FDD-Information	ProtocolIE-ID ::= 56
id-DCH-TDD-Information	ProtocolIE-ID ::= 57
id-DCH-InformationResponse	ProtocolIE-ID ::= 59
id-FDD-DCHs-to-Modify	ProtocolIE-ID ::= 62
id-TDD-DCHs-to-Modify	ProtocolIE-ID ::= 63
id-DCH-ModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 65
id-DedicatedMeasurementObjectTvpe-DM-Rprt	ProtocolIE-ID ::= 67
id-DedicatedMeasurementObjectTvpe-DM-Rgst	ProtocolIE-ID ::= 68
id-DedicatedMeasurementObjectTvpe-DM-Rsp	ProtocolIE-ID ::= 69
id-DedicatedMeasurementType	ProtocolIE-ID ::= 70
id-DL-CCTrCH-InformationItem-RL-SetupRgstTDD	ProtocolIE-ID ::= 72
id-DL-CCTrCH-InformationList-RL-AdditionRgstTDD	ProtocolIE-ID ::= 73
id-DL-CCTrCH-InformationList-RL-SetupRgstTDD	ProtocolIE-ID ::= 76
id-DL-DPCH-InformationItem-RL-AdditionRgstTDD	ProtocolIE-ID ::= 77
id-DL-DPCH-InformationList-RL-SetupRgstTDD	ProtocolIE-ID ::= 79
id-DL-DPCH-Information-RL-ReconfPrepFDD	ProtocollE-ID := 81
id-DL-DPCH-Information-RL-ReconfRastFDD	ProtocollE-ID := 82
id-DL-DPCH-Information-RL-SetupRastFDD	ProtocollE-ID := 83
id-DL-ReferencePowerInformationItem-DL-PC-Rast	ProtocollE-ID ::= 84
id-DLReferencePower	ProtocolIE-ID ::= 85
id-DLReferencePowerList-DL-PC-Rast	ProtocolIE-ID ::= 86
id-DSCH-AddItem-RL-ReconfPrepFDD	ProtocolIE-ID ::= 87
id-DSCHs-to-Add-FDD	ProtocolIE-ID ::= 89

id-DSCH-DeleteItem-RL-ReconfPrepFDD	ProtocolIE-ID ::= 91		
id-DSCH-DeleteList-RL-ReconfPrepFDD	ProtocolIE-ID ::= 93		
id-DSCHs-to-Add-TDD	ProtocolIE-ID ::= 96		
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 98		
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 100		
id-DSCH-InformationResponse	ProtocolIE-ID ::= 105		
id-DSCH-FDD-Information	ProtocolIE-ID ::= 106		
id-DSCH-TDD-Information	ProtocolIE-ID ::= 107		
id-DSCH-ModifyItem-RL-ReconfPrepFDD	ProtocolIE-ID ::= 108		
id-DSCH-ModifyList-RL-ReconfPrepFDD	ProtocolIE-ID ::= 112		
id-End-Of-Audit-Sequence-Indicator	ProtocolIE-ID ::= 113		
id-FACH-Information	ProtocolIE-ID ::= 116		
id-FACH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 117		
id-FACH-ParametersList-CTCH-ReconfRgstTDD	ProtocolIE-ID ::= 120		
id-FACH-ParametersListIE-CTCH-SetupRgstFDD	ProtocolIE-ID ::= 121		
id-FACH-ParametersListIE-CTCH-SetupRgstTDD	ProtocolIE-ID ::= 122		
id-IndicationType-ResourceStatusInd	$\frac{123}{123}$		
id-Local-Cell-ID	$\frac{11000000111}{ProtocollE-ID} := 124$		
id-Local-Cell-Group-InformationItem-AuditRsp	$\frac{1}{2}$		
id-Local-Cell-Group-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 3		
id-Local-Cell-Group-InformationItem2-ResourceStatusInd	ProtocolIE-ID := 4		
id-Local-Cell-Group-InformationList-AuditRsp	ProtocolIE-ID := 5		
id-Local-Cell-InformationItem-AuditEsp	$\frac{11000000111}{ProtocollE-ID} := 125$		
id-Local-Cell-InformationItem-ResourceStatusInd	ProtocolIE ID ::= 125		
id-Local_Cell_InformationItem2_PersourceStatusInd	ProtocolIE-ID ··- 120		
id-Local-Cell-InformationList-AuditEsp	ProtocolIE-ID ··- 127		
id-Idjustment Deriod	ProtocolIE-ID ··- 120		
id-Mayldjustment Step	ProtocolIE-ID ··- 120		
id-MaximumTransmissionDower	ProtocolIE-ID ··- 130		
id-Maximumiransmissionrower	ProtocoliE-ID ··- 122		
id-Measurement ID	ProtocoliE-ID ··- 132		
id-Measurementuro	ProtocoliE-ID ··- 115		
id-MID-SP-SID-InformationList-SystemInfolladatePast	ProtocoliE-ID ··- 124		
id-NedeP-CommunicationContextID	ProtocoliE-ID ··- 142		
id NoighbourgingCollMosquementInformation	ProtocoliE ID ··- 145		
id_D_CCDCU_Information	ProtocoliE-ID ··- 455		
id_P_CCPCH_INFOrmationItom_PogourgoStatugInd	ProtocoliE-ID ··- 144		
id_P_CDICH_Information	ProtocoliE-ID ··- 145		
id_P_CPICH_INFormationItom_PogourgoStatugInd	ProtocoliE-ID ··- 140		
id_D_SCH_Information	ProtocoliE-ID ··- 147		
id DCCDCU Information Coll Decemperature	ProtocoliE-ID ··- 140		
id DCCDCH Information Coll SotupDcatTDD	Protocolle-ID ··= 150		
id PCU Peremotions (TTCU Peremotion)	Protocolle-ID ··= 151		
id PCH-Parameters-CICH-RecontrastIDD	Protocolle-ID ··= 155		
id PCH-Parametersitem-Cich-SetupRqstFDD	Protocolle-ID ··= 156		
id PCH Information	Protocolle-ID ··= 157		
id PDGU Information AddietTE DGGU DenorfBunt	Protocolle-ID ··= 158		
IG-PUSCH-INIONMATION-ADDISTIE-PSCH-RECONINGST	ProtocollE-ID ::= 161		
IG-PUSCH-INIONMATION-MODIFYLISTIE-PSCH-RECONIRGST	ProtocollE-ID ::= 162		
IG-FUSCHSets-AddList-FSCH-Reconingst	ProtocollE-ID ::= 163		
IG-PUSCHSels-DeleteList-PSCH-Keconikqst	ProtocollE-ID ::= 164		
1a-PDSCHSets-ModlfyList-PSCH-ReconfRqst	Protocolle-ID ::= 162		
id-PICH-Information	ProtocolTE-TD	::-	166
---------------------------------------------------	---------------	-----	-----
id-PICH-Parameters-CTCH-ReconfRastTDD	ProtocolIE-ID	::=	168
id-PowerAdjustmentType	ProtocolIE-ID	::=	169
id-PRACH-Information	ProtocolIE-ID	::=	170
id-PrimaryCCPCH-Information-Cell-ReconfRostFDD	ProtocolIE-ID	::=	175
id-PrimaryCCPCH-Information-Cell-SetupRgstFDD	ProtocolIE-ID	::=	176
id-PrimaryCPICH-Information-Cell-ReconfRgstFDD	ProtocolIE-ID	::=	177
id-PrimaryCPICH-Information-Cell-SetupRgstFDD	ProtocolIE-ID	::=	178
id-PrimarySCH-Information-Cell-ReconfRgstFDD	ProtocolIE-ID	::=	179
id-PrimarySCH-Information-Cell-SetupRgstFDD	ProtocolIE-ID	::=	180
id-PrimaryScramblingCode	ProtocolIE-ID	::=	181
id-SCH-Information-Cell-ReconfRastTDD	ProtocolIE-ID	::=	183
id-SCH-Information-Cell-SetupRgstTDD	ProtocolIE-ID	::=	184
id-PUSCH-Information-AddListIE-PSCH-ReconfRast	ProtocolIE-ID	::=	185
id-PUSCH-Information-ModifyListIE-PSCH-Reconfrast	ProtocolIE-ID	::=	186
id-PUSCHSets-AddList-PSCH-ReconfRgst	ProtocolIE-ID	::=	187
id-PUSCHSets-DeleteList-PSCH-ReconfRast	ProtocolIE-ID	::=	188
id-PUSCHSets-ModifyList-PSCH-ReconfRast	ProtocolIE-ID	::=	189
id-RACH-Information	ProtocolIE-ID	::=	190
id-RACH-ParametersItem-CTCH-SetupRgstFDD	ProtocolIE-ID	::=	196
id-RACH-ParameterItem-CTCH-SetupRgstTDD	ProtocolIE-ID	::=	197
id-ReportCharacteristics	ProtocolIE-ID	::=	198
id-Reporting-Object-RL-FailureInd	ProtocolIE-ID	::=	199
id-Reporting-Object-RL-RestoreInd	ProtocolIE-ID	::=	200
id-RL-InformationItem-DM-Rprt	ProtocolIE-ID	::=	202
id-RL-InformationItem-DM-Rqst	ProtocolIE-ID	::=	203
id-RL-InformationItem-DM-Rsp	ProtocolIE-ID	::=	204
id-RL-InformationItem-RL-AdditionRqstFDD	ProtocolIE-ID	::=	205
id-RL-informationItem-RL-DeletionRqst	ProtocolIE-ID	::=	206
id-RL-InformationItem-RL-FailureInd	ProtocolIE-ID	::=	207
id-RL-InformationItem-RL-PreemptRequiredInd	ProtocolIE-ID	::=	286
id-RL-InformationItem-RL-ReconfPrepFDD	ProtocolIE-ID	::=	208
id-RL-InformationItem-RL-ReconfRqstFDD	ProtocolIE-ID	::=	209
id-RL-InformationItem-RL-RestoreInd	ProtocolIE-ID	::=	210
id-RL-InformationItem-RL-SetupRqstFDD	ProtocolIE-ID	::=	211
id-RL-InformationList-RL-AdditionRqstFDD	ProtocolIE-ID	::=	212
id-RL-informationList-RL-DeletionRqst	ProtocolIE-ID	::=	213
id-RL-InformationList-RL-PreemptRequiredInd	ProtocolIE-ID	::=	237
id-RL-InformationList-RL-ReconfPrepFDD	ProtocolIE-ID	::=	214
id-RL-InformationList-RL-ReconfRqstFDD	ProtocolIE-ID	::=	215
id-RL-InformationList-RL-SetupRqstFDD	ProtocolIE-ID	::=	216
id-RL-InformationResponseItem-RL-AdditionRspFDD	ProtocolIE-ID	::=	217
id-RL-InformationResponseItem-RL-ReconfReady	ProtocolIE-ID	::=	218
id-RL-InformationResponseItem-RL-ReconfRsp	ProtocolIE-ID	::=	219
id-RL-InformationResponseItem-RL-SetupRspFDD	ProtocolIE-ID	::=	220
id-RL-InformationResponseList-RL-AdditionRspFDD	ProtocolIE-ID	::=	221
id-RL-InformationResponseList-RL-ReconfReady	ProtocolIE-ID	::=	222
id-RL-InformationResponseList-RL-ReconfRsp	ProtocolIE-ID	::=	223
id-RL-InformationResponseList-RL-SetupRspFDD	ProtocolIE-ID	::=	224
id-RL-InformationResponse-RL-AdditionRspTDD	ProtocolIE-ID	::=	225
id-RL-InformationResponse-RL-SetupRspTDD	ProtocolIE-ID	::=	226

id-RL-Information-RL-AdditionRqstTDD	ProtocolIE-ID ::= 227
id-RL-Information-RL-ReconfRqstTDD	ProtocolIE-ID ::= 228
id-RL-Information-RL-ReconfPrepTDD	ProtocolIE-ID ::= 229
id-RL-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 230
id-RL-ReconfigurationFailureItem-RL-ReconfFailure	ProtocolIE-ID ::= 236
id-RL-Set-InformationItem-DM-Rprt	ProtocolIE-ID ::= 238
id-RL-Set-InformationItem-DM-Rsp	ProtocolIE-ID ::= 240
id-RL-Set-InformationItem-RL-FailureInd	ProtocolIE-ID ::= 241
id-RL-Set-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 242
id-S-CCPCH-Information	ProtocolIE-ID ::= 247
id-S-CPICH-Information	ProtocolIE-ID ::= 249
id-SCH-Information	ProtocolIE-ID ::= 251
id-S-SCH-Information	ProtocolIE-ID ::= 253
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 257
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 258
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 259
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 260
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD	ProtocolIE-ID ::= 261
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 262
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD	ProtocolIE-ID ::= 263
id-SecondarySCH-Information-Cell-ReconfRgstFDD	ProtocolIE-ID ::= 264
id-SecondarySCH-Information-Cell-SetupRgstFDD	ProtocolIE-ID ::= 265
id-SegmentInformationListIE-SystemInfoUpdate	ProtocolIE-ID ::= 266
id-SFN	ProtocolIE-ID ::= 268
id-ShutdownTimer	ProtocolIE-ID ::= 269
id-Start-Of-Audit-Sequence-Indicator	ProtocolIE-ID ::= 114
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	ProtocolIE-ID ::= 270
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD	ProtocolIE-ID ::= 271
id-SyncCase	ProtocolIE-ID ::= 274
id-SyncCaseIndicatorItem-Cell-SetupRastTDD-PSCH	ProtocolIE-ID ::= 275
id-T-Cell	ProtocolIE-ID ::= 276
id-TimeSlotConfigurationList-Cell-ReconfRastTDD	ProtocolIE - ID ::= 277
id-TimeSlotConfigurationList-Cell-SetupRastTDD	ProtocolIE-ID ::= 278
id-TransmissionDiversityApplied	ProtocolIE-ID ::= 279
id-TypeOfError	ProtocoliE ID ::= 508
id-HAPECNfornt	ProtocoliE-ID ··- 280
id-UARFONIOINC	ProtocoliE-ID ··- 281
id-UARFONIOING	ProtocoliE-ID ··- 282
id-III_CCTrCH_InformationItem_PI_SetupPastTDD	ProtocoliE-ID ··- 284
id-III-CCTrCH-InformationList-PL-AdditionPastTDD	ProtocoliE-ID ··- 285
id-III-CCTrCU-InformationList-RL-SotupPertEDD	ProtocoliE ID ::= 200
id-UL-DDCU-InformationItom-BL-IdditionPaatTDD	ProtocoliE-ID ··- 280
id III DDCH InformationList DL SotupDratTDD	ProtocollE-ID ··= 289
id III DDCH Information DL DoconfDronEDD	ProtocollE-ID ··= 291
id III DDCH Information DL BogonfDggtEDD	ProtocollE-ID ··- 295
id III DDCH Information DL SotupDastEDD	ProtocoliE-ID ··- 294
id Unavarantel DI InformationDeanIton DI AdditionEciluseEDD	ProtocollE-ID ··- 295
id-Unguggoggful-PI_InformationPageTtem_PI_CoturEcilurePDD	Protocolie-iD ··= 290
id_Ungugggggful_PI_InformationPage_PI_AdditionFailureFDD	Protocolle-ID ··= 297
id_Ungugggggful_PI_InformationPage_PI_GetupEailureTDD	Protocolle-ID ··= 300
id-USCU-Information-Idd	Protocolle-ID ··= 301
	FICCOCOTIE-ID ++= 202

id-USCH-Information-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 304
id-USCH-Information-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 306
id-USCH-InformationResponse	ProtocolIE-ID ::= 309
id-USCH-Information	ProtocolIE-ID ::= 310
id-Active-Pattern-Sequence-Information	ProtocolIE-ID ::= 315
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 316
id-AdjustmentRatio	ProtocolIE-ID ::= 317
id-AP-AICH-Information	ProtocolIE-ID ::= 320
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 322
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 323
id-CauseLevel-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 324
id-CauseLevel-RL-AdditionFailureFDD	ProtocolIE-ID ::= 325
id-CauseLevel-RL-AdditionFailureTDD	ProtocolIE-ID ::= 326
id-CauseLevel-RL-ReconfFailure	ProtocolIE-ID ::= 327
id-CauseLevel-RL-SetupFailureFDD	ProtocolIE-ID ::= 328
id-CauseLevel-RL-SetupFailureTDD	ProtocolIE-ID ::= 329
id-CDCA-ICH-Information	ProtocolIE-ID ::= 330
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 332
id-Closed-Loop-Timing-Adjustment-Mode	ProtocolIE-ID ::= 333
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 334
id-Compressed-Mode-Deactivation-Flag	ProtocolIE-ID ::= 335
id-CPCH-Information	ProtocolIE-ID ::= 336
id-CPCH-Parameters-CTCH-SetupRsp	ProtocolIE-ID ::= 342
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 343
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 346
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 347
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 348
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 349
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 350
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 351
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 352
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 353
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 355
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 356
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 357
id-DL-TPC-Pattern01Count	ProtocolIE-ID ::= 358
id-DPC-Mode	ProtocolIE-ID ::= 450
id-DPCHConstant	ProtocolIE-ID ::= 359
id-DSCH-FDD-Common-Information	ProtocolIE-ID ::= 94
id-EnhancedDSCHPC	ProtocolIE-ID ::= 110
id-EnhancedDSCHPCIndicator	ProtocolIE-ID ::= 111
id-FACH-ParametersList-CTCH-SetupRsp	ProtocolIE-ID ::= 362
id-Limited-power-increase-information-Cell-SetupRgstFDD	ProtocolIE-ID ::= 369
id-PCH-Parameters-CTCH-SetupRsp	ProtocolIE-ID ::= 374
id-PCH-ParametersItem-CTCH-ReconfRgstFDD	ProtocolIE-ID ::= 375
id-PCPCH-Information	ProtocolIE-ID ::= 376
id-PICH-ParametersItem-CTCH-ReconfRastFDD	ProtocolIE-ID ::= 380
id-PRACHConstant	ProtocolIE-ID ::= 381
id-PRACH-ParametersListIE-CTCH-ReconfRgstFDD	ProtocolIE-ID ::= 383
id-PUSCHConstant	ProtocolIE-ID ::= 384
id-RACH-Parameters-CTCH-SetupRsp	ProtocolIE-ID ::= 385
· · · · · · · · · · · · · · · · · · ·	

id-SSDT-CellIDforEDSCHPC	ProtocolIE-ID ::= 443
id-Synchronisation-Configuration-Cell-ReconfRqst	ProtocolIE-ID ::= 393
id-Synchronisation-Configuration-Cell-SetupRqst	ProtocolIE-ID ::= 394
id-Transmission-Gap-Pattern-Sequence-Information	ProtocolIE-ID ::= 395
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 396
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfregstTDD	ProtocolIE-ID ::= 397
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 398
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRgsTDD	ProtocolIE-ID ::= 399
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD	ProtocolIE-ID ::= 400
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 401
id-UL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD	ProtocolIE-ID ::= 402
id-IIL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 403
id-IIL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 405
id-IIL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 406
id-IIL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 407
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 408
id-Insuccessful-PIISCHSetItem-PSCH-ReconfFailureTDD	ProtocollE-ID := 409
id-CommunicationContextInfoItem-Reset	ProtocolIE-ID := 412
id-CommunicationControlPortInfoTtem-Reset	ProtocolIE-ID := 414
id-ResetIndicator	ProtocolIE-ID := 416
id_TECI2_Rearer_Information_RL_SetupRestEDD	ProtocolIE-ID := 417
id_TECI2_BearerSpecificInformation_PL_BeconfDrenFDD	$\frac{110000011E}{ProtocollE-ID} := 418$
id-TECI2-BearerInformationResnonse	$\frac{110000011E}{ProtocollE-ID} := 419$
id_TimingAdvancehoplied	ProtocollE-ID ::= 287
id-CERPoportingiator	ProtocollE-ID ··- 287
id_SENDeportingIndicator	ProtocolIE-ID ::= 11
id-InnerLoopDLDCStatus	ProtocollE-ID ··- 12
id_TimeslotISCDInfo	ProtocollE-ID ··- 283
id-Diffestorianetersitem_CTCH_SetupPastTDD	ProtocolIE-ID ::= 167
id DRACH Desembles at the CCCH SetupPedatTDD	ProtocollE-ID ::= 20
id-CCTrCH InformationIton DI FailuraInd	ProtocollE-ID ··- 20
id CCTrCUI InformationItem RL FailureInd	ProtocoliE-ID ··= 48
id Coursel surged sizes the set of the set o	ProtocoliE-ID ··= 47
id-CallAdjustmontInfo_SundAjustmitheIDD	ProtocollE-ID := 420
	Protocolle-ID ··= 421
	Protocolle-ID ··= 494
	Protocolle-ID ··= 482
id cellom prover transfill cellom strikistic protopp	Protocolle-ID ··= 422
id cellow prover the asynchronic cellow control and the cellow contr	Protocolle-ID ··= 423
id-CellSyncBurstIranskeconliguration-CellSyncReconlkgstDD	Protocolle-ID ··= 424
id-CellSyncBurstMeaskeconfiguration-CellSynckeconfigstTDD	ProtocollE-ID ::= 425
id-CellsyncBurstTransInfoList-CellSyncReconfreqstTDD	ProtocollE-ID ::= 426
id-CellSyncBurstMeasInfoList-CellSyncReconfkqstTDD	ProtocollE-ID ::= 427
1d-CellSyncBurstTranskeconfInto-CellSyncReconfRqstTDD	ProtocollE-ID ::= 428
id-CellSyncInto-CellSyncReprtTDD	ProtocollE-ID ::= 429
Id-CSBTransmissionID	ProtocollE-ID ::= 430
1d-CSBMeasurement1D	ProtocollE-ID ::= 431
id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD	ProtocolIE-ID ::= 432
1a-NCYClesPerSFNperiod	ProtocolIE-ID ::= 433
id-NRepetitionsPerCyclePeriod	ProtocolIE-ID ::= 434
1d-SyncFrameNumber	ProtocolIE-ID ::= 437
id-SynchronisationReportType	ProtocolIE-ID ::= 438

id-SynchronisationReportCharacteristics	ProtocolIE-ID	::=	439
id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD	ProtocolIE-ID	::=	440
id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD	ProtocolIE-ID	::=	119
id-ReferenceClockAvailability	ProtocolIE-ID	::=	435
id-ReferenceSFNoffset	ProtocolIE-ID	::=	436
id-InformationExchangeID	ProtocolIE-ID	::=	444
id-InformationExchangeObjectType-InfEx-Rqst	ProtocolIE-ID	::=	445
id-InformationType	ProtocolIE-ID	::=	446
id-InformationReportCharacteristics	ProtocolIE-ID	::=	447
id-InformationExchangeObjectType-InfEx-Rsp	ProtocolIE-ID	::=	448
id-InformationExchangeObjectType-InfEx-Rprt	ProtocolIE-ID	::=	449
id-IPDLParameter-Information-Cell-ReconfRqstFDD	ProtocolIE-ID	::=	451
id-IPDLParameter-Information-Cell-SetupRqstFDD	ProtocolIE-ID	::=	452
id-IPDLParameter-Information-Cell-ReconfRqstTDD	ProtocolIE-ID	::=	453
id-IPDLParameter-Information-Cell-SetupRqstTDD	ProtocolIE-ID	::=	454
id-DL-DPCH-LCR-Information-RL-SetupRqstTDD	ProtocolIE-ID	::=	74
id-DL-DPCH-LCR-InformationList-RL-SetupRqstTDD	ProtocolIE-ID	::=	75
id-DwPCH-LCR-Information	ProtocolIE-ID	::=	78
id-DwPCH-LCR-Information-AuditRsp	ProtocolIE-ID	::=	80
id-DwPCH-LCR-InformationList-AuditRsp	ProtocolIE-ID	::=	90
id-DwPCH-LCR-Information-Cell-SetupRqstTDD	ProtocolIE-ID	::=	97
id-DwPCH-LCR-Information-Cell-ReconfRqstTDD	ProtocolIE-ID	::=	99
id-DwPCH-LCR-Information-ResourceStatusInd	ProtocolIE-ID	::=	101
id-maxFACH-Power-LCR-CTCH-SetupRqstTDD	ProtocolIE-ID	::=	154
id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD	ProtocolIE-ID	::=	174
id-FPACH-LCR-Information	ProtocolIE-ID	::=	290
id-FPACH-LCR-Information-AuditRsp	ProtocolIE-ID	::=	292
id-FPACH-LCR-InformationList-AuditRsp	ProtocolIE-ID	::=	310
id-FPACH-LCR-InformationList-ResourceStatusInd	ProtocolIE-ID	::=	311
id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID	::=	312
id-FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID	::=	313
id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID	::=	314
id-PCCPCH-LCR-Information-Cell-SetupRqstTDD	ProtocolIE-ID	::=	456
id-PCH-Power-LCR-CTCH-SetupRqstTDD	ProtocolIE-ID	::=	457
id-PCH-Power-LCR-CTCH-ReconfRqstTDD	ProtocolIE-ID	::=	458
id-PICH-LCR-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID	::=	459
id-PICH-LCR-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID	::=	460
id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD	ProtocolIE-ID	::=	461
id-PRACH-LCR-ParametersListIE-CTCH-SetupRqstTDD	ProtocolIE-ID	::=	462
id-RL-InformationResponse-LCR-RL-SetupRspTDD	ProtocolIE-ID	::=	463
id-Secondary-CCPCH-LCR-parameterListIE-CTCH-SetupRqstTDD	ProtocolIE-ID	::=	464
id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD	ProtocolIE-ID	::=	465
id-TimeSlot	ProtocolIE-ID	::=	495
id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD	ProtocolIE-ID	::=	466
id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD	ProtocolIE-ID	::=	467
id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD	ProtocolIE-ID	::=	468
id-TimeSlotLCR-CM-Rqst	ProtocolIE-ID	::=	469
id-UL-DPCH-LCR-Information-RL-SetupRqstTDD	ProtocolIE-ID	::=	470
id-UL-DPCH-LCR-InformationList-RL-SetupRqstTDD	ProtocolIE-ID	::=	471
id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD	ProtocolIE-ID	::=	472
id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD	ProtocolIE-ID	::=	473

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id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::= 474
id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 475
id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 476
id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 477
id-DL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 478
id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 479
id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD	ProtocolIE-ID ::= 480
id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 481
id-UL-DPCH-LCR-InformationModify-AddList	ProtocolIE-ID ::= 483
id-UL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 484
id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD	ProtocolIE-ID ::= 485
id-UL-SIRTarget	ProtocolIE-ID ::= 510
id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 486
id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 487
id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 488
id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 489
id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 490
id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 491
id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 492
id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 493
id-timeslotInfo-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 496
id-SyncReportType-CellSyncReprtTDD	ProtocolIE-ID ::= 497
id-PUSCH-Info-DM-Rqst	ProtocolIE-ID ::= 505
id-PUSCH-Info-DM-Rsp	ProtocolIE-ID ::= 506
id-PUSCH-Info-DM-Rprt	ProtocolIE-ID ::= 507
id-InitDL-Power	ProtocolIE-ID ::= 509
id-cellSyncBurstRepetitionPeriod	ProtocolIE-ID ::= 511
id-ReportCharacteristicsType-OnModification	ProtocolIE-ID ::= 512
id-SFNSFNMeasurementValueInformation	ProtocolIE-ID ::= 513
id-SFNSFNMeasurementThresholdInformation	ProtocolIE-ID ::= 514
id-TUTRANGPSMeasurementValueInformation	ProtocolIE-ID ::= 515
id-TUTRANGPSMeasurementThresholdInformation	ProtocolIE-ID ::= 516
id-Rx-Timing-Deviation-Value-LCR	ProtocolIE-ID ::= 520
id-RL-InformationResponse-LCR-RL-AdditionRspTDD	ProtocolIE-ID ::= 51
id-DL-PowerBalancing-Information	ProtocolIE-ID ::= 28
id-DL-PowerBalancing-ActivationIndicator	ProtocolIE-ID ::= 29

END

# 3GPP TSG-RAN3 Meeting #27 Orlando, Florida, USA, 18th – 22nd February 2002

		CHANGI	E REQ	UEST			CR-Form-v5
X	25.433 CR	<mark>497</mark>	ж <b>rev</b>	<mark>3</mark> ^ж	Current vers	^{ion:} <b>4.3.0</b>	ж
For <u>HELP</u> on u	ising this form, se	e bottom of th	is page or	look at the	e pop-up text	over the # s	ymbols.
Proposed change	affects: ೫ (U)	SIM M	E/UE	Radio Aco	cess Network	Core N	Network
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Source: #	R-WG3						
Work item code: भ्र	TEI				<i>Date:</i>	2002-Febru	lary
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	Identifier wa	is allocated.					
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	- In the R REQUE of this,	L RECONFIG ST messages	URATION s, DL Refer Power wa	PREPAR ence Pow s added in	E and RL RE er Information the RL Infor	CONFIGURA on was deleted mation.	ATION d. Instead
	- The upo	late timing of	the referen	ice power	is clarified.		
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	- Abnorm	al conditions	were adde	d and new	cause value	e was also intr	roduced.
	- ASN.1	was modified	accordingly	1.			
	Rev.0						
	Power Bala /REQUEST	ncing IEs are messages ar	added to R	ADIO LIN	K RECONFI	GURATION F	PREPARE RE

		/REQUEST messages can be trigger of restarting power balancing.									
Consequences if not approved:	Ħ	this CR is not approved, Power balancing might not work effectively during the eriod between RL Reconfiguration procedure and updating reference power of ower balancing, i.e. reception of DL POWER CONTROL REQUEST message.									
		Impact Analysis:									
		Impact assessment towards the previous version of the specification (same release):									
		o previous version.									
		Compatibility Analysis towards previous release:									
		No impact.									
Clauses affected:	ж	8.3.2.2, 8.3.2.3, 8.3.2.4, 8.3.5.2, 8.3.5.3, 8.3.5.4, 9.1.42.1, 9.1.43, 9.1.47.1, 9.1.48, 9.2.1.6, 9.2.2.x, 9.3.3, 9.3.4 and 9.3.6									
Other specs affected:	ж	<ul> <li>X Other core specifications</li> <li>X CR434 on TS25.423v4.3.0 (REL-4)</li> <li>Test specifications</li> <li>O&amp;M Specifications</li> </ul>									

# How to create CRs using this form:

ж

Other comments:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G_Specs/CRs.htm</u>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

# 8.3.2 Synchronised Radio Link Reconfiguration Preparation

### 8.3.2.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of Radio Link(s) related to one UE-UTRAN connection within a Node B.

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

# 8.3.2.2 Successful Operation



#### Figure 30: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION PREPARE to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context.

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

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

### **DCH Modification:**

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

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

- If the *DCHs to Modify* IE includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD If the *DCHs to Modify* IE includes the *CCTrCH ID* IE for the DL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Downlink of this DCH in the new configuration.]
- [TDD If the *DCHs to Modify* IE includes the *CCTrCH ID* IE for the UL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Uplink of this DCH in the new configuration.]

#### **DCH Addition:**

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

- If the *DCHs to Add* IE includes multiple *DCH specific Info* IEs then, the Node B shall treat the DCHs in the *DCHs to Add* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [16]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16].]
- For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [16]. [FDD If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [16]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used for the QE, ref. [16].]
- The Node B should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.
- The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD The Node B shall apply the *CCTrCH ID* IE (for the DL) in the Downlink of this DCH in the new configuration.]
- [TDD The Node B shall apply the *CCTrCH ID* IE (for the UL) in the Uplink of this DCH in the new configuration.]

#### **DCH Deletion:**

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

If all of the DCHs belonging to a set of coordinated DCHs are requested to be deleted, the Node B shall not include this set of coordinated DCHs in the new configuration.

#### **Physical Channel Modification:**

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

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

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

- [FDD The Node B shall use the *TFCS* IE for the DL (if it is present) when reserving resources for the downlink of the new configuration. The Node B shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE or the *TFCI Presence* IE, the Node B shall use the information when building TFCIs in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *DL DPCCH Slot Format* IE, group the Node B shall set the new Downlink DPCCH Structure to the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Multiplexing Position* IE, the Node B shall apply the indicated multiplexing type in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to 'Used', the Node B shall use Limited Power Increase ref. [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *PDSCH code mapping* IE then the Node B shall apply the defined mapping between TFCI values and PDSCH channelisation codes.]
- [FDD If the *DL DPCH Information* IE includes the *PDSCH RL ID* IE then the Node B shall infer that the PDSCH for the specified user will be transmitted on the defined radio link.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information* IE the Node B shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration. This new Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.]

### [TDD – UL/DL CCTrCH Modification]

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

- [TDD If the IE includes any of *TFCS* IE, *TFCI coding* IE or *Puncture Limit* IE the Node B shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]
- [TDD If the IE includes any *UL DPCH to add* or *DL DPCH to add* IEs, the Node B shall include this DPCH in the new configuration.]
- [TDD If the IE includes any *UL DPCH to delete* or *DL DPCH to delete* IEs, the Node B shall remove this DPCH in the new configuration.]
- [TDD If the IE includes any UL DPCH to modify or DL DPCH to modify IEs, and includes any of Repetition Period IE, Repetition Length IE, or TDD DPCH Offset IE or the message includes UL/DL Timeslot Information and includes any of [3.84Mcps TDD Midamble shift and Burst Type IE, Time Slot IE], [1.28Mcps TDD Midamble shift LCR IE, Time Slot LCR IE], or TFCI presence IE or the message includes UL/DL Code information and includes [3.84Mcps TDD TDD Channelisation Code IE], [1.28Mcps TDD TDD Channelisation Code LCR IE], the Node B shall apply these specified information elements as the new values, otherwise the old values specified for this DPCH configuration are still applicable.]
- [1.28Mcps TDD If the *UL CCTrCH to Modify* IE includes the *UL SIR Target* IE, the Node B shall use the value for the UL inner loop power control according [19] and [21] when the new configuration is being used.]

### [TDD – UL/DL CCTrCH Addition]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any *UL CCTrCH to Add* IE or *DL CCTrCH to Add* IE, the Node B shall include this CCTrCH in the new configuration.]

[TDD – If the *UL/DL CCTrCH to Add* IE includes any *UL/DL DPCH Information* IE, the Node B shall reserve necessary resources for the new configuration of the UL/DL DPCH(s) according to the parameters given in the message.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes a *DL CCTrCH to Add* IE, the Node B shall set the TPC step size of that CCTrCH to the same value as the lowest numbered DL CCTrCH in the current configuration.]

[1.28Mcps TDD – The Node B shall use the *UL SIR Target* IE in the *UL CCTrCH to Add* IE as the UL SIR value for the inner loop power control for this CCTrCH according [19] and [21] 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 Node B shall remove this CCTrCH in the new configuration.]

### **DL Power Control:**

 FDD - If the *RL Information* IE includes the *DL Reference Power* IEs and the power balancing is active, Node B shall update the reference power of the power balancing in the indicated RL(s), if updating of power balancing parameters by the RADIO LINK RECONFIGURATION PREPARE message is supported, at the CFN in the RADIO LINK RECONFIGURATION COMMIT message, according to subclause 8.3.7, using the *DL Reference Power* IE. If the CFN modulo the value of the *Adjustment Period* IE is not equal to 0, the power balancing continues with the old reference power until the end of the current adjustment period, and the updated reference power shall be used from the next adjustment period.

[FDD - If updating of power balancing parameters by the RADIO LINK RECONFIGURATION PREPARE message is supported by the Node B, the Node B shall include the *DL Power Balancing Updated Indicator* IE in the *RL Information Response* IE in the RADIO LINK RECONFIGURATION READY message.]

### DSCH Addition/Modification/Deletion:

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

The Node B shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DSCH.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *TFCI2 Bearer Information* IE then the Node B shall support the establishment of a transport bearer on which the DSCH TFCI Signaling control

frames shall be received if one does not already exist or shall apply the new values if such a bearer does already exist. The *Binding ID* IE and *Transport Layer Address* IE of any new bearer to be set up for this purpose shall be returned in the RADIO LINK RECONFIGURATION READY message. If the RADIO LINK RECONFIGURATION PREPARE message specifies that the TFCI2 transport bearer is to be deleted then the Node B shall release the resources associated with that bearer in the new configuration.

[FDD – If the *TFCI Signalling Mode* IE within the RADIO LINK RECONFIGURATION PREPARE message indicates that there shall be a hard split on the TFCI field but a TFCI2 transport bearer has not already been set up and *TFCI2 Bearer Information* IE is not included in the message then the Node B shall transmit the TFCI2 field with zero power in the new configuration.]

[FDD – If the *TFCI Signalling Mode* IE within the RADIO LINK RECONFIGURATION PREPARE message indicates that there shall be a hard split on the TFCI and the *TFCI2 Bearer Information* IE is included in the message then the Node B shall transmit the TFCI2 field with zero power until Synchronisation is achieved on the TFCI2 transport bearer and the first valid DSCH TFCI Signalling control frame is received on this bearer in the new configuration (see ref. [24]).]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *DSCH Common Information IE*, the Node B shall treat it as follows:]

- [FDD If the *Enhanced DSCH PC Indicator* IE is included and set to "Enhanced DSCH PC Active in the UE ", the Node B shall activate enhanced DSCH power control in accordance with ref. [10] subclause 5.2.2, if supported, using either:]
  - [FDD the SSDT Cell Identity for EDSCHPC IE in the RL Information IE, if the SSDT Cell Identity IE is not included in the RL Information IE or]
  - [FDD the SSDT Cell Identity IE in the RL Information IE, if both the SSDT Cell Identity IE and the SSDT Cell Identity for EDSCHPC IE are included in the RL Information IE.]

[FDD - together with the SSDT Cell Identity Length IE in UL DPCH Information IE, and Enhanced DSCH PC IE, in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Enhanced DSCH PC Indicator* IE set to "Enhanced DSCH PC not Active in the UE", the Node B shall deactivate enhanced DSCH power control in the new configuration.]

### [TDD – USCH Addition/Modification/Deletion:]

- [TDD If the RADIO LINK RECONFIGURATION PREPARE message includes USCH information for the USCHs to be added/modified/deleted then the Node B shall use this information to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]
- [TDD The Node B shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each USCH.]

#### **RL Information:**

If the RADIO LINK RECONFIGURATION PREPARE message includes the *RL Information* IE, the Node B shall treat it as follows:

- [FDD When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to [8]. When *p* number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "*PhCH number 1*", the second to "*PhCH number 2*", and so on until the *p*th to "*PhCH number p*".]
- [FDD If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE", the Node B may activate SSDT using the *SSDT Cell Identity* IE in the new configuration.]
- [FDD If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT not Active in the UE", the Node B shall deactivate SSDT in the new configuration.]
- [FDD If the *RL Information* IE includes a *DL Code Information* IE, the Node B shall apply the values in the new configuration.]

- [FDD If the *RL Information* IE contains the *Transmission Gap Pattern Sequence Code Information* IE in the *DL Code Information* IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate scrambling code as indicated whenever the downlink compressed mode method SF/2 is active in the new configuration.]
- If the *RL Information* IE includes the *Maximum DL Power* and/or the *Minimum DL Power* IEs, the Node B shall apply the values in the new configuration. [FDD During compressed mode, the *P*_{SIR}(*k*), as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.].
- [TDD If the *RL Information* IE includes the *Initial DL Transmission Power* IE, the Node B shall apply the given power to the transmission on each DPCH of the CCTrCH when starting transmission on a new CCTrCH.until the UL synchronisation on the Uu is achieved for the CCTrCH. If no *Initial DL Transmission power* IE is included with a new CCTrCH, the Node B shall use any transmission power level currently used on already existing CCTrCH's when starting transmission for a new CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22], subclause 4.2.3.3).]

#### General

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

In the RADIO LINK RECONFIGURATION READY message, the Node B shall include the *RL Information Response* IE for each affected Radio Link.

The Node B shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID for any Transport Channel being added, or any Transport Channel being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

In case of a DCH requiring a new transport bearer on Iub, the *Transport Layer Address* IE and the *Binding ID* shall be included in the IE DCH Information Response IE.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included only for one of the DCH in the set of coordinated DCHs.

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

### 8.3.2.3 Unsuccessful Operation



#### Figure 31: Synchronised Radio Link Reconfiguration Preparation procedure, Unsuccessful Operation

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

If the requested Synchronised Radio Link Reconfiguration Preparation procedure fails for one or more RLs the Node B shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC, indicating the reason for failure.

Typical cause values are as follows:

#### **Radio Network Layer Cause**

- UL SF not supported
- DL SF not supported
- Downlink Shared Channel Type not supported
- Uplink Shared Channel Type not supported
- CM not supported
- Number of DL codes not supported
- Number of UL codes not supported

### **Transport Layer Cause**

- Transport Resources Unavailable

#### **Miscellaneous Cause**

- O&M Intervention
- Control processing overload
- HW failure

# 8.3.2.4 Abnormal Conditions

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

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

[FDD - If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE" and SSDT is not active in the current configuration, the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as failed if the *UL DPCH Information* IE does not include the *SSDT Cell Identity Length* IE. In this case, it shall respond with a RADIO LINK RECONFIGURATION FAILURE message.]

If the RADIO LINK RECONFIGURATION PREPARE message includes a *DCHs to Modify* IE or *DCHs to Add* IE with multiple *DCH Specific Info* IEs, and if the DCHs in the *DCHs to Modify* IE or *DCHs to Add* IE do not have the same *Transmission Time Interval* IE in the *Semi-static Transport Format Information* IE, then the Node B shall reject the procedure using the RADIO LINK SETUP FAILURE message.

[FDD - If the *RL Information* IE includes the *DL Reference Power* IEs, but the power balancing is not active in the indicated RL(s), the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the Node B shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Common" in the existing RL(s) but the *RL Information* IE includes more than one *DL Reference Power* IEs, the Node B shall regard the Synchronised Radio Link Reconfiguration Preparation procedure as having failed and the Node B shall respond with the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

# 8.3.5 Unsynchronised Radio Link Reconfiguration

# 8.3.5.1 General

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

The Unsynchronised Radio Link Reconfiguration procedure is used when there is no need to synchronise the time of the switching from the old to the new configuration in one Node B used for a UE-UTRAN connection with any other Node B also used for the UE–UTRAN connection.

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

# 8.3.5.2 Successful Operation



### Figure 34: Unsynchronised Radio Link Reconfiguration Procedure, Successful Operation

The Unsynchronised Radio Link Reconfiguration procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION REQUEST to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context.

Upon reception, the Node B shall 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.

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

### **DCH Modification:**

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

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

- If the *DCHs to Modify* IE includes the *ToAWE* IE for a DCH or a set of co-ordinated DCHs, the Node B shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH ID* IE for the DL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Downlink of this DCH in the new configuration.]
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH ID* IE for the UL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Uplink of this DCH in the new configuration.]

#### **DCH Addition:**

If the RADIO LINK RECONFIGURATION REQUEST message includes any *DCH to Add* IEs, the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message and include these DCHs in the new configuration. In particular:

- If a *DCHs to Add* IE includes multiple *DCH Specific Info* IEs for a DCH to be added, the Node B shall treat the DCHs in the *DCHs to Add* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Node B shall use the Transport channel BER from that DCHas 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 [16]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16].]
- For a set of co-ordinated DCHs, the Node B shall use the Transport channel BER from the DCH with the *QE*-Selector IE set to "selected" as the QE in the UL data frames [16]. [FDD If no Transport channel BER is available for the selected DCH, the Physical channel BER shall be used for the QE [16]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used for the QE [16].]
- The Node B should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration. The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.
- The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH ID* IE for the DL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the downlink of this DCH in the new configuration.]
- [TDD If the RADIO LINK RECONFIGURATION REQUEST message includes the *CCTrCH ID* IE for the UL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Uplink of this DCH in the new configuration.]

### **DCH Deletion:**

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

#### [FDD - Physical Channel Modification:]

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

- [FDD – If the *UL DPCH Information* IE includes the *TFCS* IE for the UL, the Node B shall apply the new TFCS in the Uplink of the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes a *DL DPCH Information* IE, then the Node B shall apply the parameters to the new configuration as follows:]

- [FDD If the *DL DPCH Information* IE includes on the *TFCS* IE for the DL, the Node B shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE, the Node B shall use the use the information when building TFCIs in the new configuration.
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to 'Used', the Node B shall, if supported, use Limited Power Increase according to ref. [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]
- [FDD If the *DL DPCH Information* IE message includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]

[FDD – If the RADIO LINK RECONFIGURATION REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE the Node B shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration. This new Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.]

### [TDD – UL/DL CCTrCH Modification]

[TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH to modify* IE or *DL CCTrCH to modify* IE in the Radio Link(s), the Node B shall reserve necessary resources for the new configuration of the Radio Link(s) according to the parameters given in the message.]

[TDD – If the *UL/DL CCTrCH to modify* IE includes *TFCS* IE, and/or *Puncture Limit* IE the Node B shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

### [TDD – UL/DL CCTrCH Deletion]

[TDD – If the RADIO LINK RECONFIGURATION REQUEST message includes any *UL CCTrCH to delete* IE or *DL CCTrCH to delete* IE, the Node B shall not include this CCTrCH in the new configuration.]

### **DL Power Control:**

FDD – If the *Radio Link Information* IE includes the *DL Reference Power* IE and the power balancing is active, the Node B shall update the reference power of the power balancing in the indicated RL(s), if updating of power balancing parameters by the RADIO LINK RECONFIGURATION REQUEST message is supported, using the *DL Reference Power* IE in the RADIO LINK RECONFIGURATION REQUEST message. The updated reference power shall be used from the next adjustment period.]

[FDD – If updating of power balancing parameters by the RADIO LINK RECONFIGURATION REQUEST message is supported by the Node B, the Node B shall include the *DL Power Balancing Updated Indicator* IE in the *RL Information Response* IE in the RADIO LINK RECONFIGURATION RESPONSE message.]

### **RL Information:**

If the RADIO LINK RECONFIGURATION REQUEST message includes the *RL Information* IE, the Node B shall treat it as follows:

- If the *RL Information* IE includes the *Maximum DL Power* IE, the Node B shall apply this value to the new configuration and not transmit with a higher power on any Downlink DPCH of the Radio Link once the new configuration is being used. [FDD - During compressed mode, the *P*_{SIR}(*k*), as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

- If the *RL Information* IE includes the *Minimum DL Power* IE, the Node B shall apply this value to the new configuration and never transmit with a lower power on any Downlink Channelisation Code of the Radio Link once the new configuration is being used.
- [FDD If the *RL Information* IE contains the *Transmission Gap Pattern Sequence Code Information* IE in the *DL Code Information* IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate scrambling code as indicated whenever the downlink compressed mode method SF/2 is active in the new configuration.]

#### General

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

In the RADIO LINK RECONFIGURATION RESPONSE message, the Node B shall include the *RL Information Response* IE for each affected Radio Link.

The Node B shall include in the RADIO LINK RECONFIGURATION RESPONSE message the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE for any Transport Channel being added, or any Transport Channel being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE. The detailed frame protocol handling during transport bearer replacement is described in [16], section 5.10.1.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included only for one of the DCH in the set of coordinated DCHs.

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

# 8.3.5.3 Unsuccessful Operation



### Figure 35: Unsynchronised Radio Link Reconfiguration procedure, Unsuccessful Operation

If the Node B cannot allocate the necessary resources for all the new DCHs of one set of coordinated, DCHs requested to be set-up it shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed.

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

Typical cause values are as follows:

#### **Radio Network Layer Cause**

- CM not supported

#### **Transport Layer Cause**

- Transport Resources Unavailable

#### **Miscellaneous Cause**

- O&M Intervention

- Control processing overload
- HW failure

# 8.3.5.4 Abnormal Conditions

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

[FDD – If the *RL Information* IE contains the *DL Code Information* IE and this IE includes *DL Scrambling Code* and *FDD DL Channelisation Code Number* IEs not matching the DL Channelisation code(s) already allocated to the Radio Link identified by *RL ID* IE, then the Node B shall consider the Unsynchronised Radio Link Reconfiguration procedure as having failed and it shall send the RADIO LINK RECONFIGURATION FAILURE message to the CRNC.

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

If the RADIO LINK RECONFIGURATION REQUEST message includes a *DCHs to Modify* IE or *DCHs to Add* IE with multiple *DCH Specific Info* IEs, and if the DCHs in the *DCHs to Modify* IE or *DCHs to Add* IE do not have the same *Transmission Time Interval* IE in the *Semi-static Transport Format Information* IE, then the Node B shall reject the procedure using the RADIO LINK <u>RECONFIGURATIONSETUP</u> FAILURE message.

[FDD - If the *RL Information* IE includes the *DL Reference Power* IEs, but the power balancing is not active in the indicated RL(s), the Node B shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed and the Node B shall respond the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

[FDD - If the power balancing is active with the Power Balancing Adjustment Type of the Node B Communication Context set to "Common" in the existing RL(s) but the *RL Information* IE includes more than one *DL Reference Power* IEs, the Node B shall regard the Unsynchronised Radio Link Reconfiguration procedure as having failed and the Node B shall respond the RADIO LINK RECONFIGURATION FAILURE message with the cause value "Power Balancing status not compatible".]

# 9.1.42 RADIO LINK RECONFIGURATION PREPARE

# 9.1.42.1 FDD Message

IE/Group Name	Presence	Range	IE Type	Semantic	Criticality	Assigned
			and	Description		Criticality
Massage Discriminator	М		9 2 1 45		_	
	M		9.2.1.46		YES	reject
Node B Communication Context	M		9.2.1.48	The	YES	reject
ID				reserved		
				shall not be		
				used.		
Transaction ID	М		9.2.1.62		-	
UL DPCH Information		01			YES	reject
>UL Scrambling code	0		9.2.2.59		—	
>UL SIR Target	0		ULSIR		-	
Mire III. Oberne elietiene Oerde	0		9.2.1.67A			
>Min UL Channelistion Code	U		9.2.2.22		_	
	C –		92221		_	
	CodeLen		0.2.2.21			
>Puncture Limit	0		9.2.1.50	For UL	—	
>TFCS	0		9.2.1.58		_	
>UL DPCCH Slot Format	0		9.2.2.57		_	
>Diversity mode	0		9.2.2.9		-	
>SSDT Cell Identity Length	0		9.2.2.45		_	
>S-Field Length	0		9.2.2.40		_	
DL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.58		-	
>DL DPCH Slot Format	0		9.2.2.10		_	
>TFCI Signalling Mode	0 C Slot		9.2.2.50		_	
>TFCI presence	Format		9.2.1.57		_	
>Multiplexing Position	0		9.2.2.23		-	
>PDSCH code mapping	0		9.2.2.25		_	
>PDSCH RL ID	0		RL ID		_	
			9.2.1.53			
>Limited Power Increase	0		9.2.2.18A		-	·
DCHs to Modify	0		to Modify		YES	reject
			9.2.2.4E			
DCHs to Add	0		DCH FDD		YES	reject
			Information			
DCHs to Delete		0 <max< td=""><td>9.2.2.4D</td><td></td><td>GLOBAI</td><td>reject</td></max<>	9.2.2.4D		GLOBAI	reject
Dens to Delete		noofDC			0202/12	10,000
		Hs>				
>DCH ID	М		9.2.1.20		-	-
DSCH to modify		0 <max< td=""><td></td><td></td><td>YES</td><td>reject</td></max<>			YES	reject
		CHs>				
>DSCH ID	М		9.2.1.27		-	
>Transport Format Set	0		9.2.1.59	For the DL.	_	
>Allocation/Retention Priority	0		9.2.1.1A		_	
>Frame Handling Priority	0		9.2.1.30		-	
>ToAWS	0		9.2.1.61		_	
>ToAWE	0		9.2.1.60		_	
>Transport Bearer Request	м		9.2.1.62A		-	
Indicator						

DSCH to add	0		DSCH FDD Information 9.2.2.13B		YES	reject
DSCH to Delete		0 <max noofDS CHs&gt;</max 			YES	reject
>DSCH ID	М		9.2.1.27		_	
TFCI2 bearer specific information		01			YES	reject
>CHOICE TFCl2 bearer action	М				_	
>>Add or modify					_	
>>>ToAWS	М		9.2.1.61		_	
>>>ToAWE	М		9.2.1.60		_	
>>Delete			NULL		_	
RL Information		0 <max noofRLs &gt;</max 			EACH	reject
>RL ID	М		9.2.1.53		-	
>DL Code Information	0		FDD DL Code Information 9.2.2.14A		-	
>Maximum DL Power	0		DL Power 9.2.1.21	Maximum allowed power on DPCH	-	
>Minimum DL Power	0		DL Power 9.2.1.21	Minimum allowed power on DPCH	_	
>SSDT Indication	0		9.2.2.47		_	
>SSDT Cell Identity	C– SSDTIndON		9.2.2.44		-	
>Transmit Diversity Indicator	C – Diversity mode		9.2.2.53		_	
>SSDT Cell Identity for EDSCHPC	C- EDSCHPC		9.2.2.44A		YES	ignore
>DL Reference Power	0		DL Power 9.2.1.21	Power on DPCH	YES	ignore
Transmission Gap Pattern Sequence Information	0		9.2.2.53A		YES	reject
DSCH Common Information	0		DSCH FDD Common Information 9.2.2.13D		YES	ignore

<Not affected part is omitted>

# 9.1.43 RADIO LINK RECONFIGURATION READY

IE/Group name	Presence	Range	IE Type and Reference	Semantic Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
CRNC Communication Context	М		9.2.1.18	The reserved value "All CRNCC C" shall not be used.	YES	ignore
Transaction ID	М		9.2.1.62		-	
RL Information Response		0 <max noofRLs &gt;</max 		Only one RL information response group for one group of combined RLs shall be present	EACH	ignore
>RL ID	М		9.2.1.53		_	
>DCH Information Response	0		9.2.1.20C		YES	ignore
>DSCH Information Response	0		9.2.1.27A		YES	ignore
>USCH Information Response	0		9.2.3.29	TDD only	YES	ignore
>TFCI2 Bearer Information Response	0		9.2.2.49A	FDD only	—	
>DL Power Balancing Updated Indicator	<u>0</u>		<u>9.2.2.x</u>		YES	<u>ignore</u>
Criticality Diagnostics	0		9.2.1.17		YES	ignore

# 9.1.47 RADIO LINK RECONFIGURATION REQUEST

# 9.1.47.1 FDD Message

IE/Group Name	Presence	Range	IE Type	Semantic	Criticality	Assigned
			Reference	Description		Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Node B Communication Context	Μ		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	М		9.2.1.62		_	
UL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.58	For the UL.	_	
DL DPCH Information		01			YES	reject
>TFCS	0		9.2.1.58	For the DL.	—	
>TFCI Signalling Mode	0		9.2.2.50		_	
>Limited Power Increase	0		9.2.2.18A		_	
DCHs to Modify	0		DCHs FDD to Modify 9.2.2.4E		YES	reject
DCHs to Add	0		DCH FDD Information 9.2.2.4D		YES	reject
DCHs to Delete		0 <maxn oofDCHs &gt;</maxn 			GLOBAL	reject
>DCH ID	М		9.2.1.20		_	
Radio Link Information		0 <maxn oofRLs&gt;</maxn 			EACH	reject
>RL ID	М		9.2.1.53		_	
>Maximum DL Power	0		DL Power 9.2.1.21	Maximum allowed power on DPCH	_	
>Minimum DL Power	0		DL Power 9.2.1.21	Minimum allowed power on DPCH	_	
>DL Code Information	C-SF/2		FDD DL Code Information 9.2.2.14A		_	
>DL Reference Power	<u>0</u>		<u>DL Power</u> 9.2.1.21	Power on DPCH	<u>YES</u>	ignore
Transmission Gap Pattern Sequence Information	0		9.2.2.53A		YES	reject

# 9.1.48 RADIO LINK RECONFIGURATION RESPONSE

IE/Group Name	Presence	Range	IE Type and	Semantic Description	Criticality	Assigned Criticality
			Reference			<b>,</b>
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
CRNC Communication Context ID	М		9.2.1.18	The reserved value "All CRNCC C" shall not be used.	YES	ignore
Transaction ID	М		9.2.1.62		-	
RL Information Response		0 <maxn oofRLs&gt;</maxn 		Only one RL information response group for one group of combined RLs shall be present	EACH	ignore
>RL ID	M		9.2.1.53		-	
>DCH Information Response	0		9.2.1.20C		YES	ignore
>DL Power Balancing Updated Indicator	<u>0</u>		<u>9.2.2.x</u>		YES	ignore
Criticality Diagnostics	0		9.2.1.17		YES	ignore

<Not affected part is omitted>

# 9.2.2 FDD Specific Parameters

# 9.2.1.6 Cause

IE/Group Name	Presence	Range	IE type and reference	Semantics description
CHOICE Cause Group				
>Radio Network Layer				
>Radio Network Layer	Μ		Enumerated	
Cause			(unknown C-ID,	
			Cell not available,	
			Power level not supported,	
			DL radio resources not	
			available,	
			UL radio resources not	
			available,	
			RL Already	
			Activated/allocated,	
			Node B Resources	
			Unavailable,	
			Measurement not supported	
			for the object,	
			Combining Resources not	
			available,	
			Requested configuration not	
			supported,	
			Synchronization failure,	
			Priority transport channel	
			established,	
			SIB Origination in Node B not	
			Supported,	
			Requested Tx Diversity Mode	
			not supported,	
			Unspecified,	
			BCCH scheduling error,	
			Measurement Temporarily not	
			Available,	
			Invalid CM Setting,	
			Reconfiguration CFN not	
			elapsed,	
			Number of DL codes not	
			supported,	
			S-CPICH not supported,	
			Combining not supported,	
			UL SF not supported,	
			DL SF not supported,	
			Common Transport Channel	
			Type not supported,	
			Dedicated Transport Channel	
			Type not supported,	
			Downlink Shared Channel	
			Type not supported,	
			Uplink Shared Channel Type	
			not supported,	
			CM not supported,	
			Tx diversity no longer	
			supported,	
			Unknown Local Cell ID,	
			,	
			Number of UL codes not	
			supported,	
			Information temporarily not	
			available,	
			Information Provision not	
			supported for the object,	
			Cell Synchronisation not	
			supported,	
			Cell Synchronisation	
			Adjustment not supported,	
			DPC Mode Change not	
			Supported,	
			IPDL already activated,	

>Transport Layer		IPDL not supported, IPDL parameters not available, Frequency Acquisition not supported <u>.</u> <u>Power Balancing status not</u> <u>compatible</u> )
>Transport Layer Cause	М	Enumerated (Transport resource unavailable, Unspecified, )
>Protocol		
>Protocol Cause		Enumerated (Transfer syntax error, Abstract syntax error (reject), Abstract syntax error (ignore and notify), Message not compatible with receiver state, Semantic error, Unspecified, Abstract syntax error (falsely constructed message), )
>Misc		
>Miscellaneous Cause	M	Enumerated (Control processing overload Hardware failure, O&M intervention, Not enough user plane processing resources, Unspecified, )

The meaning of the different cause values is described in the following table. In general, "not supported" cause values indicate that the concerning capability is missing. On the other hand, "not available" cause values indicate that the concerning capability is present, but insufficient resources were available to perform the requested action.

Radio Network Layer cause	Meaning
BCCH scheduling error	The Node B has detected an illegal BCCH schedule update (see subclause 8.2.16.3)
Cell not Available,	The concerning cell or local cell is not available
Cell Synchronisation not supported	The concerning cell(s) do not support Cell Synchronisation
Combining not supported	The Node B does not support RL combining for the concerning cells
Combining Resources Not Available	The value of the received Diversity Control Field IE was set to 'Must', but
	the Node B cannot perform the requested combining
CM not supported	The concerning cell(s) do not support Compressed Mode
Common Transport Channel Type not	The concerning cell(s) do not support the RACH and/or FACH and/or
supported	CPCH Common Transport Channel Type
Dedicated Transport Channel Type not	The concerning cell(s) do not support the Dedicated Transport Channel
supported	Туре
DL Radio Resources not Available	The Node B does not have sufficient DL radio resources available
DL SF not supported	The concerning cell(s) do not support the requested DL SF
DL Shared Channel Type not	The concerning cell(s) do not support the Downlink Shared Channel
supported	Туре
DPC Mode Change not Supported	The concerning cells do not support DPC mode changes
Frequency Acquisition not supported	The concerning cell(s) do not support Frequency Acquisition
Information Provision not supported	The requested information provision is not supported for the concerned
for the object	object types
Information temporarily not available	The requested information can temporarily not be provided
Invalid CM Settings	The concerning cell(s) consider the requested Compressed Mode settings invalid

IPDL already activated	The concerning cell(s) have already active IPDL ongoing
IPDL not supported	The concerning cell(s) do not support the IPDL
IPDL parameters not available	The concerning cell(s) do not have IPDL parameters defining IPDL to be applied
Measurement not Supported For The Object	At least one of the concerning cell(s) does not support the requested measurement on the concerning object type
Measurement Temporarily not	The Node B can temporarily not provide the requested measurement
Node B resources unavailable	The Node B does not have sufficient resources available
Number of DL codes not supported	The concerning cell(s) do not support the requested number of DL codes
Number of UL codes not supported	The concerning cell(s) do not support the requested number of <i>DL</i> codes
Power Level not Supported	A DL power level was requested which the concerning cell(s) do not support
Power Balancing status not compatible	The power balancing status in the SRNC is not compatible with that of the DRNC
Priority transport channel established	The CRNC cannot perform the requested blocking since a transport channel with a high priority is present
Reconfiguration CFN not elapsed	The requested action cannot be performed due to that a COMMIT message was received previously, but the concerning CFN has not yet elapsed
Requested Configuration not	The concerning cell(s) do not support the requested configuration i.e.
Supported	power levels, Transport Formats, physical channel parameters
Requested Tx Diversity mode not supported	The concerning cell(s) do not support the requested transmit diversity mode
RL already Activated/ allocated	The Node B has already allocated an RL with the requested RL-id for this UE context
S-CPICH not supported	The concerning cell(s) do not support S-CPICH
SIB Orgination in Node B not Supported	The Node B does not support the origination of the requested SIB for the concerning cell
Synchronisation Failure	Loss of UL Uu synchronisation
Cell Synchronisation Adjustment not supported	The concerning cell(s) do not support Cell Synchronisation Adjustment
Tx diversity no longer supported	Tx diversity can no longer be supported in the concerning cell.
UL Radio Resources not Available	The Node B does not have sufficient UL radio resources available
UL SF not supported	The concerning cell(s) do not support the requested minimum UL SF
UL Shared Channel Type not supported	The concerning cell(s) do not support the Uplink Shared Channel Type
Unknown C-ID	The Node B is not aware of a cell with the provided C-ID
Unknown Local Cell ID	The Node B is not aware of a local cell with the provided Local Cell ID
Unspecified	Sent when none of the above cause values applies but still the cause is Radio Network layer related

# <Not affected part is omitted>

# 9.2.2.12A DL_power_averaging_window_size

DL_power_averaging_window_size IE defines the window size when Limited Power Increase is used [10].

IE/Group Name	Presence	Range	IE type and reference	Semantics description
DL_power_averaging_window_size			INTEGER (160)	1-60 inner loop power adjustments, step size 1 adjustment

# 9.2.2.xx DL Power Balancing Updated Indicator

The *DL Power Balancing Updated Indicator* IE indicates that the power balancing related parameters is updated in the RL.

IE/Group Name	Presence	<u>Range</u>	<u>IE type and</u> reference	Semantics description
DL Power Balancing			ENUMERATED	
Updated Indicator			(DL Power	
			Balancing	
			Activated).	

# 9.2.2.13 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 (015)	0= Primary scrambling code of the cell 115= Secondary scrambling code

#### PDU Definitions 9.3.3

_ _ -- PDU definitions for NBAP. ___ NBAP-PDU-Contents { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN ____ _ _ -- IE parameter types from other modules. ---IMPORTS Active-Pattern-Sequence-Information, AddorDeleteIndicator, AICH-Power, AICH-TransmissionTiming, AllocationRetentionPriority, APPreambleSignature, APSubChannelNumber, AvailabilityStatus, BCCH-ModificationTime, BindingID, BlockingPriorityIndicator, SCTD-Indicator, Cause, CCTrCH-ID, CDSubChannelNumbers, CellParameterID, CellSyncBurstAvailabilityIndicator, CellSyncBurstCode, CellSyncBurstCodeShift, CellSyncBurstRepetitionPeriod, CellSyncBurstSIR, CellSyncBurstTiming, CellSyncBurstTimingThreshold, CFN,

Channel-Assignment-Indication, ChipOffset,

C-ID,

Closedlooptimingadjustmentmode, CommonChannelsCapacityConsumptionLaw, Compressed-Mode-Deactivation-Flag, CommonMeasurementAccuracy, CommonMeasurementType, CommonMeasurementValue, CommonMeasurementValueInformation, CommonPhysicalChannelID, Common-PhysicalChannel-Status-Information, Common-TransportChannel-Status-Information, CommonTransportChannelID, CommonTransportChannel-InformationResponse, CommunicationControlPortID, ConfigurationGenerationID, ConstantValue, CriticalityDiagnostics, CPCH-Allowed-Total-Rate, CPCHScramblingCodeNumber, CPCH-UL-DPCCH-SlotFormat, CRNC-CommunicationContextID, CSBMeasurementID, CSBTransmissionID, DCH-FDD-Information, DCH-InformationResponse, DCH-ID, FDD-DCHs-to-Modify, TDD-DCHs-to-Modify, DCH-TDD-Information, DedicatedChannelsCapacityConsumptionLaw, DedicatedMeasurementType, DedicatedMeasurementValue, DedicatedMeasurementValueInformation, DiversityControlField, DiversityMode, DL-DPCH-SlotFormat, DL-or-Global-CapacityCredit, DL-Power, DLPowerAveragingWindowSize, DL-PowerBalancing-UpdatedIndicator, DL-ScramblingCode, DL-TimeslotISCP, DL-Timeslot-Information, DL-TimeslotLCR-Information, DL-TimeslotISCPInfo, DL-TimeslotISCPInfoLCR, DL-TPC-Pattern01Count, DPC-Mode, DPCH-ID, DSCH-ID, DSCH-FDD-Common-Information, DSCH-FDD-Information,

DSCH-InformationResponse, DSCH-TDD-Information, DwPCH-Power, End-Of-Audit-Sequence-Indicator, EnhancedDSCHPC, EnhancedDSCHPCCounter, EnhancedDSCHPCIndicator, EnhancedDSCHPCWnd, EnhancedDSCHPowerOffset, FDD-DL-ChannelisationCodeNumber, FDD-DL-CodeInformation, FDD-S-CCPCH-Offset, FDD-TPC-DownlinkStepSize, FirstRLS-Indicator, FNReportingIndicator, FPACH-Power, FrameAdjustmentValue, FrameHandlingPriority, FrameOffset, IB-OC-ID, IB-SG-DATA, IB-SG-POS, IB-SG-REP, IB-Type, IndicationType, InformationExchangeID, InformationReportCharacteristics, InformationType, InnerLoopDLPCStatus, IPDL-FDD-Parameters, IPDL-TDD-Parameters, IPDL-Indicator, LimitedPowerIncrease, Local-Cell-ID, MaximumDL-PowerCapability, MaximumTransmissionPower, Max-Number-of-PCPCHes, MaxNrOfUL-DPDCHs, MaxPRACH-MidambleShifts, MeasurementFilterCoefficient, MeasurementID, MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftLCR, MinimumDL-PowerCapability, MinSpreadingFactor, MinUL-ChannelisationCodeLength, MultiplexingPosition, NEOT, NCyclesPerSFNperiod, NFmax,

NRepetitionsPerCyclePeriod, N-INSYNC-IND, N-OUTSYNC-IND, NeighbouringCellMeasurementInformation, NeighbouringFDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation, NodeB-CommunicationContextID, NStartMessage, PagingIndicatorLength, PayloadCRC-PresenceIndicator, PCCPCH-Power, PCP-Length, PDSCH-CodeMapping, PDSCHSet-ID, PDSCH-ID, PICH-Mode, PICH-Power, PowerAdjustmentType, PowerOffset, PowerRaiseLimit, PRACH-Midamble, PreambleSignatures, PreambleThreshold, PredictedSFNSFNDeviationLimit, PredictedTUTRANGPSDeviationLimit, PrimaryCPICH-Power, PrimaryScramblingCode, PropagationDelay, SCH-TimeSlot, PunctureLimit, PUSCHSet-ID, PUSCH-ID, OE-Selector, RACH-SlotFormat, RACH-SubChannelNumbers, ReferenceClockAvailability, ReferenceSFNoffset, RepetitionLength, RepetitionPeriod, ReportCharacteristics, RequestedDataValue, RequestedDataValueInformation, ResourceOperationalState, RL-Set-ID, RL-ID, Received-total-wide-band-power-Value, AdjustmentPeriod, ScaledAdjustmentRatio, MaxAdjustmentStep, RNC-ID, ScramblingCodeNumber,

SecondaryCCPCH-SlotFormat, Segment-Type, S-FieldLength, SFN, SFNSFNChangeLimit, SFNSFNDriftRate, SFNSFNDriftRateQuality, SFNSFNQuality, ShutdownTimer, SIB-Originator, SpecialBurstScheduling, SSDT-Cell-Identity, SSDT-CellID-Length, SSDT-Indication, Start-Of-Audit-Sequence-Indicator, STTD-Indicator, SSDT-SupportIndicator, SyncCase, SYNCDlCodeId, SyncFrameNumber, SynchronisationReportCharacteristics, SynchronisationReportType, T-Cell, T-RLFAILURE, TDD-ChannelisationCode, TDD-ChannelisationCodeLCR, TDD-DL-Code-LCR-Information, TDD-DPCHOffset, TDD-TPC-DownlinkStepSize, TDD-PhysicalChannelOffset, TDD-UL-Code-LCR-Information, TFCI2-BearerInformationResponse, TFCI-Coding, TFCI-Presence, TFCI-SignallingMode, TFCS, TimeSlot, TimeSlotLCR, TimeSlotDirection, TimeSlotStatus, TimingAdjustmentValue, TimingAdvanceApplied, TOAWE, TOAWS, TransmissionDiversityApplied, TransmitDiversityIndicator, TransmissionGapPatternSequenceCodeInformation, Transmission-Gap-Pattern-Sequence-Information, TransportBearerRequestIndicator, TransportFormatSet,

TransportLayerAddress,

TSTD-Indicator, UARFCN. TUTRANGPS. TUTRANGPSChangeLimit, TUTRANGPSDriftRate, TUTRANGPSDriftRateOuality, TUTRANGPSQuality, UARFCN, UC-Id, USCH-Information, USCH-InformationResponse, UL-CapacityCredit, UL-DPCCH-SlotFormat, UL-SIR. UL-FP-Mode, UL-PhysCH-SF-Variation, UL-ScramblingCode, UL-Timeslot-Information, UL-TimeslotLCR-Information, UL-TimeSlot-ISCP-Info, UL-TimeSlot-ISCP-LCR-Info, UL-TimeslotISCP-Value, UL-TimeslotISCP-Value-IncrDecrThres, USCH-ID FROM NBAP-IEs PrivateIE-Container{}, ProtocolExtensionContainer{}, ProtocollE-Container{}, ProtocolIE-Single-Container{}, ProtocolIE-ContainerList{}, NBAP-PRIVATE-IES, NBAP-PROTOCOL-IES, NBAP-PROTOCOL-EXTENSION FROM NBAP-Containers id-Active-Pattern-Sequence-Information, id-AdjustmentRatio, id-AICH-Information, id-AICH-ParametersListIE-CTCH-ReconfRqstFDD, id-AP-AICH-Information, id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD, id-BCH-Information, id-BCCH-ModificationTime, id-BlockingPriorityIndicator, id-Cause, id-CauseLevel-PSCH-ReconfFailureTDD, id-CauseLevel-RL-AdditionFailureFDD, id-CauseLevel-RL-AdditionFailureTDD, id-CauseLevel-RL-ReconfFailure, id-CauseLevel-RL-SetupFailureFDD,
id-CauseLevel-RL-SetupFailureTDD, id-CauseLevel-SyncAdjustmntFailureTDD, id-CCP-InformationItem-AuditRsp. id-CCP-InformationList-AuditRsp, id-CCP-InformationItem-ResourceStatusInd. id-CCTrCH-InformationItem-RL-FailureInd, id-CCTrCH-InformationItem-RL-RestoreInd, id-CDCA-ICH-Information, id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD, id-CellAdjustmentInfo-SyncAdjustmntRqstTDD, id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD, id-Cell-InformationItem-AuditRsp, id-Cell-InformationItem-ResourceStatusInd. id-Cell-InformationList-AuditRsp. id-CellParameterID, id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD, id-CellSyncBurstMeasureInit-CellSyncInitiationRgstTDD, id-cellSyncBurstRepetitionPeriod, id-CellSyncBurstTransReconfiguration-CellSyncReconfRgstTDD, id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD, id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD, id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD, id-CellSyncBurstInfoList-CellSyncReconfRqstTDD, id-CellSyncInfo-CellSyncReprtTDD. id-CFN. id-CFNReportingIndicator, id-C-ID, id-Closed-Loop-Timing-Adjustment-Mode, id-CommonMeasurementAccuracy, id-CommonMeasurementObjectType-CM-Rprt, id-CommonMeasurementObjectType-CM-Rgst, id-CommonMeasurementObjectType-CM-Rsp, id-CommonMeasurementType, id-CommonPhysicalChannelID, id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD, id-CommonPhysicalChannelType-CTCH-SetupRgstFDD, id-CommonPhysicalChannelType-CTCH-SetupRqstTDD, id-CommunicationContextInfoItem-Reset, id-CommunicationControlPortID, id-CommunicationControlPortInfoItem-Reset, id-Compressed-Mode-Deactivation-Flag, id-ConfigurationGenerationID, id-CPCH-Information, id-CPCH-Parameters-CTCH-SetupRsp, id-CPCH-ParametersListIE-CTCH-ReconfRgstFDD, id-CRNC-CommunicationContextID, id-CriticalityDiagnostics, id-CSBTransmissionID, id-CSBMeasurementID, id-DCHs-to-Add-FDD, id-DCHs-to-Add-TDD,

id-DCH-AddList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfPrepFDD. id-DCH-DeleteList-RL-ReconfPrepTDD. id-DCH-DeleteList-RL-ReconfRqstFDD, id-DCH-DeleteList-RL-ReconfRgstTDD, id-DCH-FDD-Information, id-DCH-TDD-Information, id-DCH-InformationResponse, id-FDD-DCHs-to-Modify, id-TDD-DCHs-to-Modify, id-DedicatedMeasurementObjectType-DM-Rprt, id-DedicatedMeasurementObjectType-DM-Rqst, id-DedicatedMeasurementObjectType-DM-Rsp, id-DedicatedMeasurementType, id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD, id-DL-CCTrCH-InformationItem-RL-SetupRgstTDD, id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD, id-DL-CCTrCH-InformationList-RL-SetupRqstTDD, id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD. id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationItem-RL-AdditionRgstTDD, id-DL-DPCH-InformationList-RL-SetupRqstTDD, id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD, id-DL-DPCH-Information-RL-ReconfPrepFDD, id-DL-DPCH-Information-RL-ReconfRqstFDD, id-DL-DPCH-Information-RL-SetupRqstFDD, id-DL-ReferencePowerInformationItem-DL-PC-Rqst, id-DL-PowerBalancing-UpdatedIndicator, id-DLReferencePower. id-DLReferencePowerList-DL-PC-Rqst, id-DL-TPC-Pattern01Count, id-DPC-Mode, id-DPCHConstant, id-DSCH-AddItem-RL-ReconfPrepFDD, id-DSCHs-to-Add-FDD, id-DSCH-DeleteItem-RL-ReconfPrepFDD, id-DSCH-DeleteList-RL-ReconfPrepFDD, id-DSCHs-to-Add-TDD, id-DSCH-Information-DeleteList-RL-ReconfPrepTDD, id-DSCH-Information-ModifyList-RL-ReconfPrepTDD, id-DSCH-InformationResponse, id-DSCH-FDD-Information, id-DSCH-FDD-Common-Information, id-DSCH-TDD-Information,

id-DSCH-ModifyItem-RL-ReconfPrepFDD, id-DSCH-ModifyList-RL-ReconfPrepFDD, id-End-Of-Audit-Sequence-Indicator. id-EnhancedDSCHPC. id-EnhancedDSCHPCIndicator, id-FACH-Information, id-FACH-ParametersList-CTCH-ReconfRqstTDD, id-FACH-ParametersList-CTCH-SetupRsp, id-FACH-ParametersListIE-CTCH-ReconfRqstFDD, id-FACH-ParametersListIE-CTCH-SetupRqstFDD, id-FACH-ParametersListIE-CTCH-SetupRgstTDD, id-IndicationType-ResourceStatusInd, id-InformationExchangeID, id-InformationExchangeObjectType-InfEx-Rgst, id-InformationExchangeObjectType-InfEx-Rsp, id-InformationExchangeObjectType-InfEx-Rprt, id-InformationReportCharacteristics, id-InformationType, id-InitDL-Power, id-InnerLoopDLPCStatus, id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD, id-IPDLParameter-Information-Cell-ReconfRqstFDD, id-IPDLParameter-Information-Cell-SetupRqstFDD, id-IPDLParameter-Information-Cell-ReconfRostTDD. id-IPDLParameter-Information-Cell-SetupRgstTDD, id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD, id-Limited-power-increase-information-Cell-SetupRqstFDD, id-Local-Cell-ID, id-Local-Cell-Group-InformationItem-AuditRsp, id-Local-Cell-Group-InformationItem-ResourceStatusInd, id-Local-Cell-Group-InformationItem2-ResourceStatusInd, id-Local-Cell-Group-InformationList-AuditRsp, id-Local-Cell-InformationItem-AuditRsp, id-Local-Cell-InformationItem-ResourceStatusInd, id-Local-Cell-InformationItem2-ResourceStatusInd. id-Local-Cell-InformationList-AuditRsp, id-AdjustmentPeriod, id-MaxAdjustmentStep, id-MaximumTransmissionPower, id-MeasurementFilterCoefficient, id-MeasurementID, id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst, id-NCyclesPerSFNperiod, id-NeighbouringCellMeasurementInformation, id-NodeB-CommunicationContextID, id-NRepetitionsPerCyclePeriod, id-P-CCPCH-Information, id-P-CPICH-Information, id-P-SCH-Information, id-PCCPCH-Information-Cell-ReconfRgstTDD, id-PCCPCH-Information-Cell-SetupRgstTDD,

id-PCH-Parameters-CTCH-ReconfRgstTDD, id-PCH-Parameters-CTCH-SetupRsp. id-PCH-ParametersItem-CTCH-ReconfRgstFDD. id-PCH-ParametersItem-CTCH-SetupRgstFDD, id-PCH-ParametersItem-CTCH-SetupRgstTDD, id-PCH-Information, id-PCPCH-Information, id-PICH-ParametersItem-CTCH-ReconfRgstFDD, id-PDSCH-Information-AddListIE-PSCH-ReconfRqst, id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst, id-PDSCHSets-AddList-PSCH-ReconfRqst, id-PDSCHSets-DeleteList-PSCH-ReconfRqst, id-PDSCHSets-ModifyList-PSCH-ReconfRqst, id-PICH-Information. id-PICH-Parameters-CTCH-ReconfRqstTDD, id-PICH-ParametersItem-CTCH-SetupRqstTDD, id-PowerAdjustmentType, id-PRACH-Information, id-PRACHConstant, id-PRACH-ParametersItem-CTCH-SetupRqstTDD, id-PRACH-ParametersListIE-CTCH-ReconfRgstFDD, id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD, id-PrimaryCCPCH-Information-Cell-SetupRqstFDD, id-PrimaryCPICH-Information-Cell-ReconfRgstFDD. id-PrimaryCPICH-Information-Cell-SetupRgstFDD, id-PrimarySCH-Information-Cell-ReconfRqstFDD, id-PrimarySCH-Information-Cell-SetupRqstFDD, id-PrimaryScramblingCode, id-SCH-Information-Cell-ReconfRqstTDD, id-SCH-Information-Cell-SetupRgstTDD, id-PUSCH-Information-AddListIE-PSCH-ReconfRgst, id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst, id-PUSCHConstant, id-PUSCHSets-AddList-PSCH-ReconfRqst, id-PUSCHSets-DeleteList-PSCH-ReconfRqst, id-PUSCHSets-ModifyList-PSCH-ReconfRqst, id-RACH-Information, id-RACH-Parameters-CTCH-SetupRsp, id-RACH-ParametersItem-CTCH-SetupRgstFDD, id-RACH-ParameterItem-CTCH-SetupRgstTDD, id-ReferenceClockAvailability, id-ReferenceSFNoffset, id-ReportCharacteristics, id-Reporting-Object-RL-FailureInd, id-Reporting-Object-RL-RestoreInd, id-ResetIndicator, id-RL-InformationItem-DM-Rprt. id-RL-InformationItem-DM-Rgst, id-RL-InformationItem-DM-Rsp, id-RL-InformationItem-RL-AdditionRgstFDD, id-RL-informationItem-RL-DeletionRgst,

id-RL-InformationItem-RL-FailureInd, id-RL-InformationItem-RL-PreemptRequiredInd, id-RL-InformationItem-RL-ReconfPrepFDD. id-RL-InformationItem-RL-ReconfRgstFDD, id-RL-InformationItem-RL-RestoreInd, id-RL-InformationItem-RL-SetupRqstFDD, id-RL-InformationList-RL-AdditionRgstFDD, id-RL-informationList-RL-DeletionRgst, id-RL-InformationList-RL-PreemptRequiredInd, id-RL-InformationList-RL-ReconfPrepFDD, id-RL-InformationList-RL-ReconfRqstFDD, id-RL-InformationList-RL-SetupRgstFDD, id-RL-InformationResponseItem-RL-AdditionRspFDD, id-RL-InformationResponseItem-RL-ReconfReady, id-RL-InformationResponseItem-RL-ReconfRsp, id-RL-InformationResponseItem-RL-SetupRspFDD, id-RL-InformationResponseList-RL-AdditionRspFDD, id-RL-InformationResponseList-RL-ReconfReady, id-RL-InformationResponseList-RL-ReconfRsp, id-RL-InformationResponseList-RL-SetupRspFDD, id-RL-InformationResponse-RL-AdditionRspTDD, id-RL-InformationResponse-RL-SetupRspTDD, id-RL-Information-RL-AdditionRqstTDD, id-RL-Information-RL-ReconfRgstTDD. id-RL-Information-RL-ReconfPrepTDD, id-RL-Information-RL-SetupRqstTDD, id-RL-ReconfigurationFailureItem-RL-ReconfFailure, id-RL-Set-InformationItem-DM-Rprt, id-RL-Set-InformationItem-DM-Rsp, id-RL-Set-InformationItem-RL-FailureInd, id-RL-Set-InformationItem-RL-RestoreInd, id-S-CCPCH-Information, id-S-CPICH-Information, id-SCH-Information, id-S-SCH-Information. id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD, id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD, id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD, id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD, id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD, id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD, id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD, id-SecondarySCH-Information-Cell-ReconfRqstFDD, id-SecondarySCH-Information-Cell-SetupRqstFDD, id-SegmentInformationListIE-SystemInfoUpdate, id-SFN, id-SFNReportingIndicator, id-ShutdownTimer, id-SSDT-CellIDforEDSCHPC, id-Start-Of-Audit-Sequence-Indicator, id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,

id-Successful-RL-InformationRespItem-RL-SetupFailureFDD, id-Synchronisation-Configuration-Cell-ReconfRqst, id-Synchronisation-Configuration-Cell-SetupRost. id-SyncCase. id-SyncCaseIndicatorItem-Cell-SetupRgstTDD-PSCH, id-SyncFrameNumber, id-SynchronisationReportType, id-SynchronisationReportCharacteristics, id-SyncReportType-CellSyncReprtTDD, id-T-Cell, id-TFCI2-Bearer-Information-RL-SetupRgstFDD, id-TFCI2-BearerInformationResponse, id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD, id-Transmission-Gap-Pattern-Sequence-Information, id-TimeSlotConfigurationList-Cell-ReconfRgstTDD, id-TimeSlotConfigurationList-Cell-SetupRgstTDD, id-timeslotInfo-CellSvncInitiationRgstTDD, id-TimeslotISCPInfo, id-TimingAdvanceApplied, id-TransmissionDiversitvApplied, id-UARFCNforNt, id-UARFCNforNd, id-UARFCNforNu, id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD. id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationItem-RL-SetupRgstTDD, id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD, id-UL-CCTrCH-InformationList-RL-SetupRgstTDD, id-UL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationItem-RL-AdditionRgstTDD, id-UL-DPCH-InformationList-RL-SetupRqstTDD, id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD, id-UL-DPCH-Information-RL-ReconfPrepFDD, id-UL-DPCH-Information-RL-ReconfRgstFDD, id-UL-DPCH-Information-RL-SetupRgstFDD, id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD, id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD, id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD, id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD, id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD, id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD, id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD, id-USCH-Information-Add, id-USCH-Information-DeleteList-RL-ReconfPrepTDD,

id-USCH-Information-ModifyList-RL-ReconfPrepTDD, id-USCH-InformationResponse. id-USCH-Information. id-DL-DPCH-LCR-Information-RL-SetupRqstTDD, id-DL-DPCH-LCR-InformationList-RL-SetupRgstTDD, id-DwPCH-LCR-Information, id-DwPCH-LCR-Information-AuditRsp, id-DwPCH-LCR-InformationList-AuditRsp, id-DwPCH-LCR-Information-Cell-SetupRqstTDD, id-DwPCH-LCR-Information-Cell-ReconfRgstTDD, id-DwPCH-LCR-Information-ResourceStatusInd, id-maxFACH-Power-LCR-CTCH-SetupRgstTDD, id-maxFACH-Power-LCR-CTCH-ReconfRgstTDD. id-FPACH-LCR-Information. id-FPACH-LCR-Information-AuditRsp, id-FPACH-LCR-InformationList-AuditRsp, id-FPACH-LCR-InformationList-ResourceStatusInd, id-FPACH-LCR-Parameters-CTCH-SetupRgstTDD, id-FPACH-LCR-ParametersItem-CTCH-SetupRgstTDD, id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD, id-PCCPCH-LCR-Information-Cell-SetupRgstTDD, id-PCH-Power-LCR-CTCH-SetupRqstTDD, id-PCH-Power-LCR-CTCH-ReconfRqstTDD, id-PICH-LCR-Parameters-CTCH-SetupRgstTDD. id-PICH-LCR-ParametersItem-CTCH-SetupRgstTDD, id-PRACH-LCR-ParametersList-CTCH-SetupRgstTDD, id-PRACH-LCR-ParametersListIE-CTCH-SetupRgstTDD, id-RL-InformationResponse-LCR-RL-SetupRspTDD, id-Secondary-CCPCH-LCR-parameterListIE-CTCH-SetupRqstTDD, id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRgstTDD, id-TimeSlot, id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD, id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD, id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD, id-TimeSlotLCR-CM-Rost. id-UL-DPCH-LCR-Information-RL-SetupRgstTDD, id-UL-DPCH-LCR-InformationList-RL-SetupRqstTDD, id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD, id-UL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD, id-TimeslotISCP-InformationList-LCR-RL-AdditionRgstTDD, id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD, id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD, id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD, id-DL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD, id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD, id-TimeslotISCPInfoList-LCR-DL-PC-RgstTDD, id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD, id-UL-DPCH-LCR-InformationModify-AddList, id-UL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD, id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD, id-UL-SIRTarget,

id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst, id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst, id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst, id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst, id-PUSCH-AddInformation-LCR-PSCH-ReconfRgst, id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst, id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst, id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst, id-PUSCH-Info-DM-Rqst, id-PUSCH-Info-DM-Rsp, id-PUSCH-Info-DM-Rprt, id-RL-InformationResponse-LCR-RL-AdditionRspTDD, maxNrOfCCTrCHs, maxNrOfCellSyncBursts, maxNrOfCodes, maxNrOfCPCHs, maxNrOfDCHs, maxNrOfDLTSs, maxNrOfDLTSLCRs, maxNrOfDPCHs, maxNrOfDSCHs, maxNrOfFACHs, maxNrOfRLs. maxNrOfRLs-1, maxNrOfRLs-2, maxNrOfRLSets, maxNrOfPCPCHs, maxNrOfPDSCHs, maxNrOfPUSCHs, maxNrOfPRACHLCRs, maxNrOfPDSCHSets, maxNrOfPUSCHSets, maxNrOfReceptsPerSyncFrame, maxNrOfSCCPCHs, maxNrOfSCCPCHLCRs, maxNrOfULTSs, maxNrOfULTSLCRs, maxNrOfUSCHs, maxAPSiqNum, maxCPCHCell, maxFACHCell, maxFPACHCell, maxNoofLen, maxRACHCell, maxPCPCHCell, maxPRACHCell, maxSCCPCHCell, maxSCPICHCell, maxCellinNodeB, maxCCPinNodeB,

```
maxCommunicationContext,
maxLocalCellinNodeB,
maxNrOfSlotFormatsPRACH,
maxNrOfCellSyncBursts,
maxNrOfReceptsPerSyncFrame,
maxIB,
maxIBSEG
FROM NBAP-Constants;
```

# <Not affected part is omitted>

```
___
-- RADIO LINK RECONFIGURATION PREPARE FDD
- -
*****
RadioLinkReconfigurationPrepareFDD ::= SEQUENCE {
   protocolIEs
                          ProtocolIE-Container
                                                 {{RadioLinkReconfigurationPrepareFDD-IEs}},
   protocolExtensions
                          ProtocolExtensionContainer {{RadioLinkReconfigurationPrepareFDD-Extensions}}
                                                                                                               OPTIONAL,
   . . .
RadioLinkReconfigurationPrepareFDD-IES NBAP-PROTOCOL-IES ::= {
    { ID
          id-NodeB-CommunicationContextID
                                                        CRITICALITY
                                                                       reject
                                                                                      TYPE
                                                                                                            NodeB-CommunicationContextID
   PRESENCE
               mandatory }
           id-UL-DPCH-Information-RL-ReconfPrepFDD
                                                                                                            UL-DPCH-Information-RL-ReconfPrepFDD
    { TD
                                                        CRITICALITY
                                                                       reject
                                                                                      TYPE
       PRESENCE
                  optional
                            } |
                                                                                                            DL-DPCH-Information-RL-ReconfPrepFDD
    { ID
           id-DL-DPCH-Information-RL-ReconfPrepFDD
                                                        CRITICALITY
                                                                       reject
                                                                                      TYPE
       PRESENCE
                  optional
                             } |
          id-FDD-DCHs-to-Modify
                                             CRITICALITY
                                                                                  FDD-DCHs-to-Modify
                                                                                                                     PRESENCE optional }
     ID
                                                            reject
                                                                           TYPE
                                                                                                                     PRESENCE optional }
           id-DCHs-to-Add-FDD
                                             CRITICALITY
                                                                                  DCH-FDD-Information
     ID
                                                            reject
                                                                           TYPE
     ID
           id-DCH-DeleteList-RL-ReconfPrepFDD
                                                        CRITICALITY
                                                                                      TYPE
                                                                                                            DCH-DeleteList-RL-ReconfPrepFDD
                                                                       reject
       PRESENCE
                  optional
                             } |
    { ID
           id-DSCH-ModifyList-RL-ReconfPrepFDD
                                                        CRITICALITY
                                                                       reject
                                                                                      TYPE
                                                                                                            DSCH-ModifyList-RL-ReconfPrepFDD
       PRESENCE
                  optional
                             } |
     ID
           id-DSCHs-to-Add-FDD
                                         CRITICALITY
                                                                       TYPE
                                                                               DSCH-FDD-Information
                                                                                                                       PRESENCE optional }
                                                        reject
     ID
          id-DSCH-DeleteList-RL-ReconfPrepFDD
                                                        CRITICALITY
                                                                                      TYPE
                                                                                                            DSCH-DeleteList-RL-ReconfPrepFDD
                                                                       reject
       PRESENCE
                  optional
                             } |
          id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD
    { ID
                                                                CRITICALITY
                                                                               reject
                                                                                          TYPE
                                                                                                            TFCI2-BearerSpecificInformation-RL-
ReconfPrepFDD
   PRESENCE optional }
    { ID
          id-RL-InformationList-RL-ReconfPrepFDD
                                                                                      TYPE
                                                                                                            RL-InformationList-RL-ReconfPrepFDD
                                                        CRITICALITY
                                                                       reject
       PRESENCE
                  optional
                             }|
    { ID id-Transmission-Gap-Pattern-Sequence-Information
                                                        CRITICALITY
                                                                       reject
                                                                                      TYPE Transmission-Gap-Pattern-Sequence-Information
PRESENCE optional },
   . . .
```

}

RadioLinkReconfigurationPrepareFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {

```
{ ID id-DSCH-FDD-Common-Information
                                                                                                                                     PRESENCE optional },
                                                         CRITICALITY ignore EXTENSION DSCH-FDD-Common-Information
UL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    ul-ScramblingCode
                                                     UL-ScramblingCode
                                                                                          OPTIONAL,
    ul-SIR-Target
                                                     UL-SIR
                                                                                          OPTIONAL,
    minUL-ChannelisationCodeLength
                                                     MinUL-ChannelisationCodeLength
                                                                                          OPTIONAL,
    maxNrOfUL-DPDCHs
                                                     MaxNrOfUL-DPDCHs
                                                                                          OPTIONAL,
    -- This IE shall be present if minUL-ChannelisationCodeLength Ie is set 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 NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-Information-RL-ReconfPrepFDD ::= SEQUENCE {
    tFCS
                                                                                          OPTIONAL.
                                                     TFCS
    dl-DPCH-SlotFormat
                                                     DL-DPCH-SlotFormat
                                                                                          OPTIONAL,
    tFCI-SignallingMode
                                                     TFCI-SignallingMode
                                                                                          OPTIONAL,
    tFCI-Presence
                                                     TFCI-Presence
                                                                                          OPTIONAL,
    -- This IE shall be present if the DL DPCH Slot Format IE is set to any of the values from 12 to 16
    multiplexingPosition
                                                     MultiplexingPosition
                                                                                          OPTIONAL,
                                                     PDSCH-CodeMapping
                                                                                          OPTIONAL,
    pDSCH-CodeMapping
    pDSCH-RL-ID
                                                     RL-ID
                                                                                          OPTIONAL,
    limitedPowerIncrease
                                                     LimitedPowerIncrease
                                                                                          OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs } }
                                                                                                                                        OPTIONAL,
    . . .
DL-DPCH-Information-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepFDD
DCH-DeleteItem-RL-ReconfPrepFDD ::= SEOUENCE {
    dCH-ID
                                                     DCH-ID,
    iE-Extensions
                                                     ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs} }
                                                                                                                                  OPTIONAL,
    . . .
DCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
. . .
DSCH-ModifyList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Single-Container {{DSCH-ModifyItemIE-RL-ReconfPrepFDD }}
DSCH-ModifyItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
           id-DSCH-ModifyItem-RL-ReconfPrepFDD
                                                                                      DSCH-ModifyItem-RL-ReconfPrepFDD PRESENCE mandatory}
    { ID
                                                     CRITICALITY reject
                                                                             TYPE
}
DSCH-ModifyItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-ID
                                                     DSCH-ID,
    dl-TransportFormatSet
                                                     TransportFormatSet
                                                                                  OPTIONAL,
    allocationRetentionPriority
                                                     AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority
                                                     FrameHandlingPriority
                                                                                  OPTIONAL,
    toAWS
                                                     TOAWS
                                                                                  OPTIONAL,
    toAWE
                                                     TOAWE
                                                                                  OPTIONAL,
    transportBearerRequestIndicator
                                                     TransportBearerRequestIndicator,
    iE-Extensions
                                                     ProtocolExtensionContainer { { DSCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs } }
                                                                                                                                     OPTIONAL,
    . . .
DSCH-ModifyItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DSCH-DeleteList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfDSCHs)) OF ProtocolIE-Single-Container {{DSCH-DeleteItemIE-RL-ReconfPrepFDD }}
DSCH-DeleteItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
           id-DSCH-DeleteItem-RL-ReconfPrepFDD
    { ID
                                                     CRITICALITY reject
                                                                             TYPE
                                                                                      DSCH-DeleteItem-RL-ReconfPrepFDD PRESENCE mandatory }
}
DSCH-DeleteItem-RL-ReconfPrepFDD ::= SEQUENCE {
    dSCH-ID
                                                     DSCH-ID,
                                                     ProtocolExtensionContainer { { DSCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                     OPTIONAL,
    . . .
}
DSCH-DeleteItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD ::= CHOICE {
    addOrModify
                            AddOrModify-TFCI2-RL-ReconfPrepFDD,
    delete
                            NULL
}
AddOrModify-TFCI2-RL-ReconfPrepFDD ::= SEQUENCE {
    toAWS
                                        TOAWS,
    toAWE
                                        TOAWE,
                                        ProtocolExtensionContainer { { AddOrModify-TFCI2-RL-ReconfPrepFDD-ExtIEs } }
    iE-Extensions
                                                                                                                         OPTIONAL,
    . . .
```

```
ļ
AddOrModify-TFCI2-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
RL-InformationList-RL-ReconfPrepFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationItemIE-RL-ReconfPrepFDD }}
RL-InformationItemIE-RL-ReconfPrepFDD NBAP-PROTOCOL-IES ::= {
    { ID
          id-RL-InformationItem-RL-ReconfPrepFDD
                                                        CRITICALITY
                                                                       reject
                                                                                      TYPE
                                                                                                             RL-InformationItem-RL-ReconfPrepFDD
    PRESENCE
               mandatory }
}
RL-InformationItem-RL-ReconfPrepFDD ::= SEQUENCE {
   rL-ID
                                                 RL-ID,
   dl-CodeInformation
                                             FDD-DL-CodeInformation
                                                                       OPTIONAL,
   maxDL-Power
                                                 DL-Power
                                                                                          OPTIONAL,
   minDL-Power
                                                 DL-Power
                                                                                          OPTIONAL,
   sSDT-Indication
                                                 SSDT-Indication
                                                                                          OPTIONAL,
   sSDT-Cell-Identity
                                                 SSDT-Cell-Identity
                                                                                          OPTIONAL,
   -- The IE shall be present if the SSDT Indication IE is set to "SSDT Active in the UE"
                                                 TransmitDiversityIndicator
    transmitDiversityIndicator
                                                                                          OPTIONAL,
    -- This IE shall be present if Diversity Mode IE is present in UL DPCH Information IE and it is not set to "none"
   iE-Extensions
                                                 ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfPrepFDD-ExtIEs } }
                                                                                                                             OPTIONAL.
    . . .
RL-InformationItem-RL-ReconfPrepFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-SSDT-CellIDforEDSCHPC CRITICALITY ignore EXTENSION SSDT-Cell-Identity
                                                                                   PRESENCE conditional }
    -- This IE shall be present if Enhanced DSCH PC IE is present in the DSCH Common Information IE.
   { ID id-DLReferencePower
                                 CRITICALITY ignore EXTENSION DL-Power
                                                                                      PRESENCE optional
   . . .
<Not affected part is omitted>
___
-- RADIO LINK RECONFIGURATION READY
- -
   RadioLinkReconfigurationReady ::= SEQUENCE {
                                                 {{RadioLinkReconfigurationReady-IEs}},
   protocolIEs
                          ProtocolIE-Container
   protocolExtensions
                          ProtocolExtensionContainer {{RadioLinkReconfigurationReady-Extensions}}
                                                                                                               OPTIONAL,
    . . .
}
RadioLinkReconfigurationReady-IEs NBAP-PROTOCOL-IES ::= {
```

```
{ ID
           id-CRNC-CommunicationContextID
                                                                CRITICALITY
                                                                                ignore
                                                                                            TYPE
                                                                                                                    CRNC-CommunicationContextID
           PRESENCE
                       mandatory }
    { ID
           id-RL-InformationResponseList-RL-ReconfReady
                                                                                ignore
                                                                                                                    RL-InformationResponseList-RL-
                                                                CRITICALITY
                                                                                            TYPE
ReconfReady
                PRESENCE
                           optional
                                       } |
                                                                                                                    CriticalityDiagnostics
    { ID
           id-CriticalityDiagnostics
                                                                CRITICALITY
                                                                                ignore
                                                                                            TYPE
        PRESENCE
                    optional },
    . . .
RadioLinkReconfigurationReady-Extensions NBAP-PROTOCOL-EXTENSION ::= {
}
RL-InformationResponseList-RL-ReconfReady
                                             ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{ RL-InformationResponseItemIE-RL-
ReconfReady } }
RL-InformationResponseItemIE-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
    { ID
           id-RL-InformationResponseItem-RL-ReconfReady
                                                                    CRITICALITY
                                                                                    ignore
                                                                                                                    TYPE RL-InformationResponseItem-RL-
ReconfReady
                PRESENCE
                            mandatory }
RL-InformationResponseItem-RL-ReconfReady ::= SEQUENCE {
    rL-ID
                                                    RL-ID,
    dCH-InformationResponseList-RL-ReconfReady
                                                    DCH-InformationResponseList-RL-ReconfReady OPTIONAL,
    dSCH-InformationResponseList-RL-ReconfReady
                                                    DSCH-InformationResponseList-RL-ReconfReady OPTIONAL,
    uSCH-InformationResponseList-RL-ReconfReady
                                                    USCH-InformationResponseList-RL-ReconfReady OPTIONAL,
    tFCI2-BearerInformationResponse
                                                    TFCI2-BearerInformationResponse
                                                                                        OPTIONAL, --FDD only
    iE-Extensions
                                                    ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfReady-ExtIEs } }
                                                                                                                                            OPTIONAL,
    . . .
RL-InformationResponseItem-RL-ReconfReady-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-PowerBalancing-UpdatedIndicator CRITICALITY ignore
                                                                        EXTENSION
                                                                                        DL-PowerBalancing-UpdatedIndicator
                                                                                                                                PRESENCE optional },
    . . .
DCH-InformationResponseList-RL-ReconfReady::= ProtocolIE-Single-Container {{ DCH-InformationResponseListIEs-RL-ReconfReady }}
DCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
    { ID id-DCH-InformationResponse CRITICALITY ignore
                                                            TYPE DCH-InformationResponse
                                                                                            PRESENCE mandatory }
}
DSCH-InformationResponseList-RL-ReconfReady::= ProtocolIE-Single-Container {{ DSCH-InformationResponseListIEs-RL-ReconfReady }}
DSCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
    { ID id-DSCH-InformationResponse CRITICALITY ignore TYPE DSCH-InformationResponse PRESENCE mandatory }
}
USCH-InformationResponseList-RL-ReconfReady::= ProtocolIE-Single-Container {{ USCH-InformationResponseListIEs-RL-ReconfReady }}
USCH-InformationResponseListIEs-RL-ReconfReady NBAP-PROTOCOL-IES ::= {
```

```
{ ID id-USCH-InformationResponse CRITICALITY ignore TYPE USCH-InformationResponse
                                                                                          PRESENCE mandatory }
}
<Not affected part is omitted>
____
-- RADIO LINK RECONFIGURATION REQUEST FDD
      RadioLinkReconfigurationRequestFDD ::= SEQUENCE {
                                                 {{RadioLinkReconfigurationRequestFDD-IEs}},
   protocolIEs
                          ProtocolIE-Container
   protocolExtensions
                          ProtocolExtensionContainer {{RadioLinkReconfigurationRequestFDD-Extensions}}
                                                                                                               OPTIONAL,
    . . .
}
RadioLinkReconfigurationRequestFDD-IES NBAP-PROTOCOL-IES ::= {
           id-NodeB-CommunicationContextID
     ID
                                                        CRITICALITY
                                                                       reject
                                                                                   TYPE
                                                                                          NodeB-CommunicationContextID
                                                                                                                             PRESENCE mandatory
     ID
           id-UL-DPCH-Information-RL-ReconfRqstFDD
                                                        CRITICALITY
                                                                       reject
                                                                                   TYPE
                                                                                          UL-DPCH-Information-RL-ReconfRgstFDD
                                                                                                                                   PRESENCE
    optional
             }
           id-DL-DPCH-Information-RL-ReconfRqstFDD
    { ID
                                                        CRITICALITY
                                                                       reject
                                                                                   TYPE
                                                                                          DL-DPCH-Information-RL-ReconfRgstFDD
                                                                                                                                   PRESENCE
    optional
               } |
     ID
          id-FDD-DCHs-to-Modify
                                             CRITICALITY
                                                            reject
                                                                       TYPE
                                                                               FDD-DCHs-to-Modify
                                                                                                                     PRESENCE optional }
     ID
           id-DCHs-to-Add-FDD
                                             CRITICALITY
                                                            reject
                                                                       TYPE
                                                                               DCH-FDD-Information
                                                                                                                        PRESENCE optional }
           id-DCH-DeleteList-RL-ReconfRqstFDD
                                                                                                                                PRESENCE
    { ID
                                                        CRITICALITY
                                                                       reject
                                                                                   TYPE
                                                                                          DCH-DeleteList-RL-ReconfRqstFDD
    optional }
    { ID
           id-RL-InformationList-RL-ReconfRqstFDD
                                                        CRITICALITY
                                                                                   TYPE
                                                                                          RL-InformationList-RL-ReconfRqstFDD
                                                                                                                                   PRESENCE
                                                                       reject
    optional
               }|
    { ID id-Transmission-Gap-Pattern-Sequence-Information CRITICALITY
                                                                                   TYPE
                                                                                          Transmission-Gap-Pattern-Sequence-Information PRESENCE
                                                                       reject
optional },
    . . .
RadioLinkReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
UL-DPCH-Information-RL-ReconfRostFDD ::= SEOUENCE {
   ul-TFCS
                                                 TFCS
                                                                OPTIONAL,
   iE-Extensions
                                                 ProtocolExtensionContainer { { UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs } }
                                                                                                                             OPTIONAL,
    . . .
}
UL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

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```
DL-DPCH-Information-RL-ReconfRqstFDD ::= SEQUENCE {
    dl-TFCS
                                                     TFCS
                                                                     OPTIONAL.
    tFCI-SignallingMode
                                                     TFCI-SignallingMode
                                                                                             OPTIONAL.
   limitedPowerIncrease
                                                     LimitedPowerIncrease
                                                                                             OPTIONAL,
                                                     ProtocolExtensionContainer { { DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                       OPTIONAL,
    . . .
DL-DPCH-Information-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-DeleteList-RL-ReconfRgstFDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfRgstFDD
DCH-DeleteItem-RL-ReconfRqstFDD ::= SEQUENCE {
    dCH-ID
                                                     DCH-ID,
                                                     ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfRgstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                    OPTIONAL.
    . . .
}
DCH-DeleteItem-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-InformationList-RL-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF Protocolle-Single-Container {{ RL-InformationItemIE-RL-ReconfRqstFDD}}
RL-InformationItemIE-RL-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
           id-RL-InformationItem-RL-ReconfRqstFDD
    { ID
                                                                 CRITICALITY
                                                                                 reject
                                                                                                 TYPE
                                                                                                                     RL-InformationItem-RL-ReconfRqstFDD
        PRESENCE
                    mandatory }
}
RL-InformationItem-RL-ReconfRqstFDD ::= SEQUENCE
    rL-ID
                                                RL-ID,
    maxDL-Power
                                                DL-Power
                                                                 OPTIONAL,
    minDL-Power
                                                DL-Power
                                                                 OPTIONAL,
    dl-CodeInformation
                                            FDD-DL-CodeInformation
                                                                         OPTIONAL,
-- The IE shall be present if the Transmission Gap Pattern Sequence Information IE is included and the indicated Downlink Compressed Mode method for at
least one of the included Transmission Gap Pattern Sequence is set to "SF/2".
    iE-Extensions
                                                ProtocolExtensionContainer { { RL-InformationItem-RL-ReconfRqstFDD-ExtIEs } }
                                                                                                                                    OPTIONAL,
    . . .
RL-InformationItem-RL-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
                                                                                                 PRESENCE optional },
   { ID id-DLReferencePower
                                        CRITICALITY ignore EXTENSION DL-Power
    . . .
```

<Not affected part is omitted>

_ _ -- RADIO LINK RECONFIGURATION RESPONSE _ _ ******* RadioLinkReconfigurationResponse ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkReconfigurationResponse-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkReconfigurationResponse-Extensions}} OPTIONAL, . . . RadioLinkReconfigurationResponse-IEs NBAP-PROTOCOL-IES ::= { { ID id-CRNC-CommunicationContextID CRITICALITY ignore TYPE CRNC-CommunicationContextID PRESENCE mandatory } { ID id-RL-InformationResponseList-RL-ReconfRsp CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfRsp PRESENCE optional { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . RadioLinkReconfigurationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . RL-InformationResponseList-RL-ReconfRsp ::= SEOUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container {{RL-InformationResponseItemIE-RL-ReconfRsp} } RL-InformationResponseItemIE-RL-ReconfRsp NBAP-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, dCH-InformationResponseList-RL-ReconfRsp DCH-InformationResponseList-RL-ReconfRsp OPTIONAL, iE-Extensions ProtocolExtensionContainer { { RL-InformationResponseItem-RL-ReconfRsp-ExtIEs } } OPTIONAL, . . . RL-InformationResponseItem-RL-ReconfRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-DL-PowerBalancing-UpdatedIndicator CRITICALITY ignore EXTENSION DL-PowerBalancing-UpdatedIndicator PRESENCE optional }, . . . DCH-InformationResponseList-RL-ReconfRsp::= ProtocolIE-Single-Container {{ DCH-InformationResponseListIEs-RL-ReconfRsp }}

DCH-InformationResponseListIEs-RL-ReconfRsp NBAP-PROTOCOL-IES ::= {

{ ID id-DCH-InformationResponse CRITICALITY ignore TYPE DCH-InformationResponse PRESENCE mandatory }

}

# <Not affected part is omitted>

# 9.3.4 Information Elements Definitions

****** ** ___ -- Information Element Definitions ___ ***** __** NBAP-IEs { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) nbap (2) version1 (1) nbap-IEs (2) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN IMPORTS maxNrOfRLs, maxNrOfTFCs, maxNrOfErrors, maxCTFC, maxNrOfTFs, maxTTI-count, maxRateMatching, maxCodeNrComp-1, maxNrOfCellSyncBursts, maxNrOfCodeGroups, maxNrOfMeasNCell, maxNrOfMeasNCell-1, maxNrOfReceptsPerSyncFrame, maxNrOfTFCIGroups, maxNrOfTFCI1Combs, maxNrOfTFCI2Combs, maxNrOfTFCI2Combs-1, maxNrOfSF, maxTGPS, maxNrOfUSCHs, maxNrOfULTSs, maxNrOfULTSLCRs, maxNrOfDPCHs, maxNrOfDPCHLCRs, maxNrOfCodes, maxNrOfDSCHs, maxNrOfDLTSs,

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maxNrOfDLTSLCRs, maxNrOfDCHs, maxNrOfLevels, maxNoGPSItems, maxNoSat, id-MessageStructure, id-ReportCharacteristicsType-OnModification, id-Rx-Timing-Deviation-Value-LCR, id-SFNSFNMeasurementValueInformation, id-SFNSFNMeasurementThresholdInformation, id-TUTRANGPSMeasurementValueInformation, id-TUTRANGPSMeasurementThresholdInformation, id-TypeOfError FROM NBAP-Constants

Criticality, ProcedureID, ProtocolIE-ID, TransactionID, TriggeringMessage FROM NBAP-CommonDataTypes

```
NBAP-PROTOCOL-IES,
ProtocolExtensionContainer{},
ProtocolIE-Single-Container{},
NBAP-PROTOCOL-EXTENSION
FROM NBAP-Containers;
```

# <Not affected part is omitted>

```
-- C
Cause ::= CHOICE {
   radioNetwork
                     CauseRadioNetwork,
   transport
                  CauseTransport,
                     CauseProtocol,
   protocol
                     CauseMisc,
   misc
   . . .
}
CauseMisc ::= ENUMERATED {
   control-processing-overload,
   hardware-failure,
   oam-intervention,
   not-enough-user-plane-processing-resources,
   unspecified,
   . . .
```

```
}
CauseProtocol ::= ENUMERATED {
    transfer-syntax-error,
    abstract-syntax-error-reject,
    abstract-syntax-error-ignore-and-notify,
    message-not-compatible-with-receiver-state,
    semantic-error,
    unspecified,
    abstract-syntax-error-falsely-constructed-message,
    . . .
CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID.
    cell-not-available.
    power-level-not-supported,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    rl-already-ActivatedOrAlocated,
    nodeB-Resources-unavailable,
    measurement-not-supported-for-the-object,
    combining-resources-not-available,
    requested-configuration-not-supported,
    synchronisation-failure,
    priority-transport-channel-established,
    sIB-Origination-in-Node-B-not-Supported,
    requested-tx-diversity-mode-not-supported,
    unspecified,
    bCCH-scheduling-error,
    measurement-temporarily-not-available,
    invalid-CM-settings,
    reconfiguration-CFN-not-elapsed,
    number-of-DL-codes-not-supported,
    s-cipch-not-supported,
    combining-not-supported,
    ul-sf-not-supported,
    dl-SF-not-supported,
    common-transport-channel-type-not-supported,
    dedicated-transport-channel-type-not-supported,
    downlink-shared-channel-type-not-supported,
    uplink-shared-channel-type-not-supported,
    cm-not-supported,
    tx-diversity-no-longer-supported,
    unknown-Local-Cell-ID,
    . . . ,
    number-of-UL-codes-not-supported,
    information-temporarily-not-available,
```

information-temporarily-not-available, information-provision-not-supported-for-the-object, cell-synchronisation-not-supported, synchronisation-adjustment-not-supported,

}

}

___

_ _

```
dpc-mode-change-not-supported,
iPDL-already-activated,
iPDL-not-supported,
iPDL-parameters-not-available,
frequency-acquisition-not-supported,
power-balancing-status-not-compatible
```

```
CauseTransport ::= ENUMERATED {
    transport-resource-unavailable,
    unspecified,
    . . .
```

```
<Not affected part is omitted>
```

```
DLPowerAveragingWindowSize ::= INTEGER (1..60)
```

```
DL-PowerBalancing-UpdatedIndicator ::= ENUMERATED
```

```
dL-PowerBalancing-Updated
```

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

```
-- 0= Primary scrambling code of the cell, 1..15= Secondary scrambling code --
```

# <Not affected part is omitted>

#### **Constant Definitions** 9.3.6

```
-- Constant definitions
  *****
___
NBAP-Constants
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Constants (4)}
DEFINITIONS AUTOMATIC TAGS ::=
BEGIN
IMPORTS
   ProcedureCode,
   ProtocolIE-ID
FROM NBAP-CommonDataTypes;
```

___

-- Elementary Procedures

id-audit	ProcedureCode	::= 0
id-auditRequired	ProcedureCode	::= 1
id-blockResource	ProcedureCode	::= 2
id-cellDeletion	ProcedureCode	::= 3
id-cellReconfiguration	ProcedureCode	::= 4
id-cellSetup	ProcedureCode	::= 5
id-cellSynchronisationInitiation	ProcedureCode	::= 39
id-cellSynchronisationReconfiguration	ProcedureCode	::= 40
id-cellSynchronisationReporting	ProcedureCode	::= 41
id-cellSynchronisationTermination	ProcedureCode	::= 42
id-cellSynchronisationFailure	ProcedureCode	::= 43
id-commonMeasurementFailure	ProcedureCode	::= б
id-commonMeasurementInitiation	ProcedureCode	::= 7
id-commonMeasurementReport	ProcedureCode	::= 8
id-commonMeasurementTermination	ProcedureCode	::= 9
id-commonTransportChannelDelete	ProcedureCode	::= 10
id-commonTransportChannelReconfigure	ProcedureCode	::= 11
id-commonTransportChannelSetup	ProcedureCode	::= 12
id-compressedModeCommand	ProcedureCode	::= 14
id-dedicatedMeasurementFailure	ProcedureCode	::= 16
id-dedicatedMeasurementInitiation	ProcedureCode	::= 17
id-dedicatedMeasurementReport	ProcedureCode	::= 18
id-dedicatedMeasurementTermination	ProcedureCode	::= 19
id-downlinkPowerControl	ProcedureCode	::= 20
id-downlinkPowerTimeslotControl	ProcedureCode	::= 38
id-errorIndicationForCommon	ProcedureCode	::= 35
id-errorIndicationForDedicated	ProcedureCode	::= 21
id-informationExchangeFailure	ProcedureCode	::= 40
id-informationExchangeInitiation	ProcedureCode	::= 41
id-informationExchangeTermination	ProcedureCode	::= 42
id-informationReporting	ProcedureCode	::= 43
id-physicalSharedChannelReconfiguration	ProcedureCode	::= 37
id-privateMessageForCommon	ProcedureCode	::= 36
id-privateMessageForDedicated	ProcedureCode	::= 22
id-radioLinkAddition	ProcedureCode	::= 23
id-radioLinkDeletion	ProcedureCode	::= 24
id-radioLinkFailure	ProcedureCode	::= 25
id-radioLinkPreemption	ProcedureCode	::= 39
id-radioLinkRestoration	ProcedureCode	::= 26
id-radioLinkSetup	ProcedureCode	::= 27
id-reset	ProcedureCode	::= 13
id-resourceStatusIndication	ProcedureCode	::= 28
id-cellSynchronisationAdjustment	ProcedureCode	::= 44
id-synchronisedRadioLinkReconfigurationCancellation	ProcedureCode	::= 29
id-synchronisedRadioLinkReconfigurationCommit	ProcedureCode	::= 30

# 3GPP TS 25.433 V4.3.0 (2001-12)

id-synchronisedRadioLinkRed id-systemInformationUpdate id-unblockResource id-unSynchronisedRadioLinkl	configurationPreparation Reconfiguration	ProcedureCode ::= 31 ProcedureCode ::= 32 ProcedureCode ::= 33 ProcedureCode ::= 34
****	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * *
Lists		
*********************	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * *
maxNrOfCodes	INTEGER ::= 10	
maxNrOfDLTSs	INTEGER ::= 15	
maxNrOfDLTSLCRs	INTEGER ::= 6	
maxNrOfErrors	INTEGER $::= 256$	
maxNrOfTFs	INTEGER ::= 32	
maxNrOfTECs	INTEGER ::= 1024	
maxNrOfRLg	INTEGER ::= 16	
maxNrOfRLg_1	INTEGER ··- 15 maxNrc	fpig _ 1
maxNrOfRLg_2	INTEGER ··- 14 maxNrc	fplg _ 2
maxNrOfRI Set c	INTEGER ··- II maxNrC	
maxNrOfDDCHg	INTEGER ··- 240	
maxNrOfDDCHLCPc	INTEGER ··- 240	
maxNrOfSCCDCHa	INTEGER ··- 240	
maxNrOfCDCHa	INTEGER ··- 0	
maxNrOfDCDCHg	INTEGER ··- IO	
maxNIOLPCPCHS	INTEGER ··= 04	
maxNIOIDCHS	INTEGER ··= 120	
	INTEGER ··= 32	
	INTEGER ··= 0	
maxNr0ICCTrCHs	INTEGER ::= 16	
maxNrOIPDSCHS	INTEGER ::= 256	
maxNrOIPUSCHS	INTEGER ::= 256	
maxNrOIPDSCHSets	INTEGER ::= 256	
maxNrOIPRACHLCRS	INTEGER ::= 8	
maxNrOIPUSCHSets	INTEGER ::= 256	
maxNrOISCCPCHLCRs	INTEGER ::= 8	
maxNrOIULTSs	INTEGER ::= 15	
maxNrOIULTSLCRs	INTEGER ::= 6	
maxNrOIUSCHS	INTEGER ::= 32	
maxAPSigNum	INTEGER ::= 16	
maxNrOfSlotFormatsPRACH	INTEGER ::= 8	
maxCellinNodeB	INTEGER ::= 256	
maxCCPinNodeB	INTEGER ::= 256	
maxCPCHCell	INTEGER ::= maxNrOiCPCHs	
maxCTFC	INTEGER ::= 16/7/215	
maxLocalCellinNodeB	INTEGER ::= maxCellinNode	B
maxNoofLen	INTEGER ::= 7	
maxFPACHCell	INT'EGER ::= 8	
maxRACHCell	INTEGER ::= maxPRACHCell	
maxPRACHCell	INTEGER ::= 16	
maxPCPCHCell	INTEGER ::= 64	

maxSCCPCHCell	INTEGER ::= 32	
maxSCPICHCell	INTEGER ::= 32	
maxTTI-count	INTEGER ::= 4	
maxIBSEG	INTEGER ::= 16	
maxIB	INTEGER ::= 64	
maxFACHCell	INTEGER ::= 256 maxNrOfFA	CHs * maxSCCPCHCell
maxRateMatching	INTEGER ::= 256	
maxCodeNrComp-1	INTEGER ::= 256	
maxNrOfCellSyncBursts	INTEGER ::= 10	
maxNrOfCodeGroups	INTEGER ::= 256	
maxNrOfReceptsPerSyncFrame	INTEGER ::= 16	
maxNrOfMeasNCell	INTEGER ::= 96	
maxNrOfMeasNCell-1	INTEGER ::= 95 maxNrOfMe	asNCell - 1
maxNrOfTFCIGroups	INTEGER ::= 256	
maxNrOfTFCI1Combs	INTEGER ::= 512	
maxNrOfTFCI2Combs	INTEGER ::= 1024	
maxNrOfTFCI2Combs-1	INTEGER ::= 1023	
maxNrOfSF	INTEGER ::= 8	
maxTGPS	INTEGER ::= 6	
maxCommunicationContext	INTEGER ::= 1048575	
maxNrOfLevels	INTEGER ::= 256	
maxNoSat	INTEGER ::= 16	
maxNoGPSItems	INTEGER ::= 8	
***************	* * * * * * * * * * * * * * * * * * * *	* * * * * * * *
IEs		
*******************	* * * * * * * * * * * * * * * * * * * *	* * * * * * * *
id-AICH-Information		ProtocolIE-ID ::= 0
id-AICH-InformationItem-Res	ourceStatusInd	ProtocolIE-ID ::= 1
id-BCH-Information		ProtocolIE-ID ::= 7
id-BCH-InformationItem-Reso	urceStatusInd	ProtocolIE-ID ::= 8
id-BCCH-ModificationTime		ProtocolIE-ID ::= 9
id-BlockingPriorityIndicato	r	ProtocolIE-ID ::= 10
id-Cause		ProtocolIE-ID ::= 13
id-CCP-InformationItem-Audi	tRsp	ProtocolIE-ID ::= 14
id-CCP-InformationList-Audi	tRsp	ProtocolIE-ID ::= 15
id-CCP-InformationItem-Reso	urceStatusInd	ProtocolIE-ID ::= 16
id-Cell-InformationItem-Aud	ProtocolIE-ID ::= 17	
id-Cell-InformationItem-Res	ourceStatusInd	ProtocolIE-ID ::= 18
id-Cell-InformationList-Aud	itRsp	ProtocolIE-ID ::= 19
id-CellParameterID		ProtocolIE-ID ::= 23
id-CFN		ProtocolIE-ID ::= 24
id-C-ID		ProtocolIE-ID ::= 25
id-CommonMeasurementAccurac	V	ProtocolIE-ID ::= 39
id-CommonMeasurementObjectT	vpe-CM-Rprt	ProtocolIE-ID ::= 31
id-CommonMeasurementObjectT	vpe-CM-Rast	ProtocolIE-ID ::= 32
id-CommonMeasurementObjectT	vpe-CM-Rsp	ProtocolIE-ID ::= 33
id-CommonMeasurementType	2 L	ProtocolIE-ID ::= 34

ProtocolIE-ID ::= 35 ProtocolIE-ID ::= 36 ProtocolIE-ID ::= 37 ProtocolIE-ID ::= 40 ProtocolIE-ID ::= 43 ProtocolIE-ID ::= 44 ProtocolIE-ID ::= 45 ProtocolIE-ID ::= 48 ProtocolIE-ID ::= 49 ProtocolIE-ID ::= 50 ProtocolIE-ID ::= 52 ProtocolIE-ID ::= 53 ProtocolIE-ID ::= 54 ProtocolIE-ID ::= 55 ProtocolIE-ID ::= 56 ProtocolIE-ID ::= 57 ProtocolIE-ID ::= 59 ProtocolIE-ID ::= 62 ProtocolIE-ID ::= 63 ProtocolIE-ID ::= 65 ProtocolIE-ID ::= 67 ProtocolIE-ID ::= 68 ProtocolIE-ID ::= 69 ProtocolIE-ID ::= 70 ProtocolIE-ID ::= 72 ProtocolIE-ID ::= 73 ProtocolIE-ID ::= 76 ProtocolIE-ID ::= 77 ProtocolIE-ID ::= 79 ProtocolIE-ID ::= 81 ProtocolIE-ID ::= 82 ProtocolIE-ID ::= 83 ProtocolIE-ID ::= 84 ProtocolIE-ID ::= 85 ProtocolIE-ID ::= 86 ProtocolIE-ID ::= 87 ProtocolIE-ID ::= 89 ProtocolIE-ID ::= 91 ProtocolIE-ID ::= 93 ProtocolIE-ID ::= 96 ProtocolIE-ID ::= 98 ProtocolIE-ID ::= 100 ProtocolIE-ID ::= 105 ProtocolIE-ID ::= 106 ProtocolIE-ID ::= 107 ProtocolIE-ID ::= 108 ProtocolIE-ID ::= 112 ProtocolIE-ID ::= 113 ProtocolIE-ID ::= 116 ProtocolIE-ID ::= 117 ProtocolIE-ID ::= 120

id-CommonPhysicalChannelID
id-Common Physical Channel Type-CTCH-SetupRast FDD
id-CommonPhysicalChannelType CTCH-SetupRastTDD
id-CommunicationControlPortID
id-ConfigurationConcretionID
id-CriticalityDiagnostics
Id-DCH-AddLISt-RL-RecontPrepiDD
Id-DCHS-to-Add-TDD
id-DCH-DeleteList-RL-ReconfPrepFDD
id-DCH-DeleteList-RL-ReconfPrepTDD
1d-DCH-DeleteList-RL-RecontRqstFDD
id-DCH-DeleteList-RL-ReconfRqstTDD
id-DCH-FDD-Information
id-DCH-TDD-Information
id-DCH-InformationResponse
id-FDD-DCHs-to-Modify
id-TDD-DCHs-to-Modify
id-DCH-ModifyList-RL-ReconfRqstTDD
id-DedicatedMeasurementObjectType-DM-Rprt
id-DedicatedMeasurementObjectType-DM-Rqst
id-DedicatedMeasurementObjectType-DM-Rsp
id-DedicatedMeasurementType
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD
id-DL-DPCH-InformationItem-RL-AdditionRgstTDD
id-DL-DPCH-InformationList-RL-SetupRgstTDD
id-DL-DPCH-Information-RL-ReconfPrepFDD
id-DL-DPCH-Information-RL-ReconfRgstFDD
id-DL-DPCH-Information-RL-SetupRastFDD
id-DL-ReferencePowerInformationItem-DL-PC-Rast
id-DLReferencePower
id_DLReferenceDowerlist_DL_DC_Past
id DRCH idditor Bi BoonfbronEDD
id-DSCH-Additem-RD-Recompreprod
id DSCAU polatottam DL Dagan foranEDD
id DSCH-Deleteliet DL DegenfDropEDD
IQ-DSCHS-LO-AQQ-IDD
Id-DSCH-Information-DeleteList-RL-ReconfreeTDD
1d-DSCH-Information-ModifyList-RL-ReconfPrepTDD
1d-DSCH-InformationResponse
id-DSCH-FDD-Information
1d-DSCH-TDD-Information
id-DSCH-ModifyItem-RL-ReconfPrepFDD
id-DSCH-ModifyList-RL-ReconfPrepFDD
id-End-Of-Audit-Sequence-Indicator
id-FACH-Information
id-FACH-InformationItem-ResourceStatusInd
id-FACH-ParametersList-CTCH-ReconfRqstTDD

id-FACH-ParametersListIE-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 121
id-FACH-ParametersListIE-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 122
id-IndicationType-ResourceStatusInd	ProtocolIE-ID ::= 123
id-Local-Cell-ID	ProtocolIE-ID ::= 124
id-Local-Cell-Group-InformationItem-AuditRsp	ProtocolIE-ID ::= 2
id-Local-Cell-Group-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 3
id-Local-Cell-Group-InformationItem2-ResourceStatusInd	ProtocolIE-ID ::= 4
id-Local-Cell-Group-InformationList-AuditRsp	ProtocolIE-ID ::= 5
id-Local-Cell-InformationItem-AuditRsp	ProtocolIE-ID ::= 125
id-Local-Cell-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 126
id-Local-Cell-InformationItem2-ResourceStatusInd	ProtocolIE-ID ::= 127
id-Local-Cell-InformationList-AuditRsp	ProtocolIE-ID ::= 128
id-AdjustmentPeriod	ProtocolIE-ID ::= 129
id-MaxAdjustmentStep	ProtocolIE-ID ::= 130
id-MaximumTransmissionPower	ProtocolIE-ID ::= 131
id-MeasurementFilterCoefficient	ProtocolIE-ID ::= 132
id-MeasurementID	ProtocolIE-ID ::= 133
id-MessageStructure	ProtocolIE-ID ::= 115
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst	ProtocolIE-ID ::= 134
id-NodeB-CommunicationContextID	ProtocolIE-ID ::= 143
id-NeighbouringCellMeasurementInformation	ProtocolIE-ID ::= 455
id-P-CCPCH-Information	ProtocolIE-ID ::= 144
id-P-CCPCH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 145
id-P-CPICH-Information	ProtocolIE-ID ::= 146
id-P-CPICH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 147
id-P-SCH-Information	ProtocolIE-ID ::= 148
id-PCCPCH-Information-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 150
id-PCCPCH-Information-Cell-SetupRgstTDD	ProtocolIE-ID ::= 151
id-PCH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 155
id-PCH-ParametersItem-CTCH-SetupRgstFDD	ProtocolIE-ID ::= 156
id-PCH-ParametersItem-CTCH-SetupRgstTDD	ProtocolIE-ID ::= 157
id-PCH-Information	ProtocolIE-ID ::= 158
id-PDSCH-Information-AddListIE-PSCH-ReconfRost	ProtocolIE-ID ::= 161
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 162
id-PDSCHSets-AddList-PSCH-ReconfRgst	ProtocolIE-ID ::= 163
id-PDSCHSets-DeleteList-PSCH-ReconfRast	ProtocolIE-ID ::= 164
id-PDSCHSets-ModifyList-PSCH-ReconfRast	ProtocolIE-ID ::= 165
id-PICH-Information	ProtocolIE-ID ::= 166
id-PICH-Parameters-CTCH-ReconfRostTDD	ProtocolIE-ID ::= 168
id-PowerAdjustmentType	ProtocolIE-ID ::= 169
id-PRACH-Information	ProtocolTE-TD := 170
id-PrimaryCCPCH-Information-Cell-ReconfRastFDD	ProtocolIE-ID := 175
id-PrimaryCCPCH-Information-Cell-SetupRastFDD	$\frac{1}{2} = 176$
id-PrimaryCPICH-Information-Cell-ReconfRastFDD	$\frac{1}{2} = 177$
id-PrimaryCPICH-Information-Cell-SetupRastFDD	ProtocolIE-ID := 178
id-PrimarySCH-Information-Cell-ReconfRastFDD	ProtocolIE-ID ::= 179
id-DrimarySCH-Information-Cell-SetupRastEDD	ProtocolIE-ID ::= 180
id-PrimaryScramblingCode	ProtocolIE ID := 181
id-SCH-Information-Cell-ReconfRastTDD	ProtocolIE-ID ::= 183
id-SCH-Information-Cell-SetupRastTDD	ProtocolIE ID := 184
id-PUSCH-Information-AddListIE-PSCH-ReconfRast	ProtocolIE-ID ::= 185
TA TODOW THEOTHACTON HAADTDCTH EDON NCCONTINADC	

id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 186
id-PUSCHSets-AddList-PSCH-ReconfRqst	ProtocolIE-ID ::= 187
id-PUSCHSets-DeleteList-PSCH-ReconfRqst	ProtocolIE-ID ::= 188
id-PUSCHSets-ModifyList-PSCH-ReconfRqst	ProtocolIE-ID ::= 189
id-RACH-Information	ProtocolIE-ID ::= 190
id-RACH-ParametersItem-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 196
id-RACH-ParameterItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 197
id-ReportCharacteristics	ProtocolIE-ID ::= 198
id-Reporting-Object-RL-FailureInd	ProtocolIE-ID ::= 199
id-Reporting-Object-RL-RestoreInd	ProtocolIE-ID ::= 200
id-RL-InformationItem-DM-Rprt	ProtocolIE-ID ::= 202
id-RL-InformationItem-DM-Rqst	ProtocolIE-ID ::= 203
id-RL-InformationItem-DM-Rsp	ProtocolIE-ID ::= 204
id-RL-InformationItem-RL-AdditionRqstFDD	ProtocolIE-ID ::= 205
id-RL-informationItem-RL-DeletionRqst	ProtocolIE-ID ::= 206
id-RL-InformationItem-RL-FailureInd	ProtocolIE-ID ::= 207
id-RL-InformationItem-RL-PreemptRequiredInd	ProtocolIE-ID ::= 286
id-RL-InformationItem-RL-ReconfPrepFDD	ProtocolIE-ID ::= 208
id-RL-InformationItem-RL-ReconfRqstFDD	ProtocolIE-ID ::= 209
id-RL-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 210
id-RL-InformationItem-RL-SetupRqstFDD	ProtocolIE-ID ::= 211
id-RL-InformationList-RL-AdditionRqstFDD	ProtocolIE-ID ::= 212
id-RL-informationList-RL-DeletionRqst	ProtocolIE-ID ::= 213
id-RL-InformationList-RL-PreemptRequiredInd	ProtocolIE-ID ::= 237
id-RL-InformationList-RL-ReconfPrepFDD	ProtocolIE-ID ::= 214
id-RL-InformationList-RL-ReconfRqstFDD	ProtocolIE-ID ::= 215
id-RL-InformationList-RL-SetupRgstFDD	ProtocolIE-ID ::= 216
id-RL-InformationResponseItem-RL-AdditionRspFDD	ProtocolIE-ID ::= 217
id-RL-InformationResponseItem-RL-ReconfReady	ProtocolIE-ID ::= 218
id-RL-InformationResponseItem-RL-ReconfRsp	ProtocolIE-ID ::= 219
id-RL-InformationResponseItem-RL-SetupRspFDD	ProtocolIE-ID ::= 220
id-RL-InformationResponseList-RL-AdditionRspFDD	ProtocolIE-ID ::= 221
id-RL-InformationResponseList-RL-ReconfReady	ProtocolIE-ID ::= 222
id-RL-InformationResponseList-RL-ReconfRsp	ProtocolIE-ID ::= 223
id-RL-InformationResponseList-RL-SetupRspFDD	ProtocolIE-ID ::= 224
id-RL-InformationResponse-RL-AdditionRspTDD	ProtocolIE-ID ::= 225
id-RL-InformationResponse-RL-SetupRspTDD	ProtocolIE-ID ::= 226
id-RL-Information-RL-AdditionRgstTDD	ProtocolIE-ID ::= 227
id-RL-Information-RL-ReconfRqstTDD	ProtocolIE-ID ::= 228
id-RL-Information-RL-ReconfPrepTDD	ProtocolIE-ID ::= 229
id-RL-Information-RL-SetupRgstTDD	ProtocolIE-ID ::= 230
id-RL-ReconfigurationFailureItem-RL-ReconfFailure	ProtocolIE-ID ::= 236
id-RL-Set-InformationItem-DM-Rprt	ProtocolIE-ID ::= 238
id-RL-Set-InformationItem-DM-Rsp	ProtocolIE-ID ::= 240
id-RL-Set-InformationItem-RL-FailureInd	ProtocolIE-ID ::= 241
id-RL-Set-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 242
id-S-CCPCH-Information	ProtocolIE-ID ::= 247
id-S-CPICH-Information	ProtocolIE-ID ::= 249
id-SCH-Information	ProtocolIE-ID ::= 251
id-S-SCH-Information	ProtocolIE-ID ::= 253
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 257

id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 258
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 259
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 260
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD	ProtocolIE-ID ::= 261
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 262
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD	ProtocolIE-ID ::= 263
id-SecondarySCH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 264
id-SecondarySCH-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 265
id-SegmentInformationListIE-SystemInfoUpdate	ProtocolIE-ID ::= 266
id-SFN	ProtocolIE-ID ::= 268
id-ShutdownTimer	ProtocolIE-ID ::= 269
id-Start-Of-Audit-Sequence-Indicator	ProtocolIE-ID ::= 114
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	ProtocolIE-ID ::= 270
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD	ProtocolIE-ID ::= 271
id-SyncCase	ProtocolIE-ID ::= 274
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH	ProtocolIE-ID ::= 275
id-T-Cell	ProtocolIE-ID ::= 276
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 277
id-TimeSlotConfigurationList-Cell-SetupRqstTDD	ProtocolIE-ID ::= 278
id-TransmissionDiversityApplied	ProtocolIE-ID ::= 279
id-TypeOfError	ProtocolIE-ID ::= 508
id-UARFCNforNt	ProtocolIE-ID ::= 280
id-UARFCNforNd	ProtocolIE-ID ::= 281
id-UARFCNforNu	ProtocolIE-ID ::= 282
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	ProtocolIE-ID ::= 284
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD	ProtocolIE-ID ::= 285
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 288
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD	ProtocolIE-ID ::= 289
id-UL-DPCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 291
id-UL-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 293
id-UL-DPCH-Information-RL-ReconfRqstFDD	ProtocolIE-ID ::= 294
id-UL-DPCH-Information-RL-SetupRgstFDD	ProtocolIE-ID ::= 295
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD	ProtocolIE-ID ::= 296
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD	ProtocolIE-ID ::= 297
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD	ProtocolIE-ID ::= 300
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD	ProtocolIE-ID ::= 301
id-USCH-Information-Add	ProtocolIE-ID ::= 302
id-USCH-Information-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 304
id-USCH-Information-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 306
id-USCH-InformationResponse	ProtocolIE-ID ::= 309
id-USCH-Information	ProtocolIE-ID ::= 310
id-Active-Pattern-Sequence-Information	ProtocolIE-ID ::= 315
id-AICH-ParametersListIE-CTCH-ReconfRgstFDD	ProtocolIE-ID ::= 316
id-AdjustmentRatio	ProtocolIE-ID ::= 317
id-AP-AICH-Information	ProtocolIE-ID ::= 320
id-AP-AICH-ParametersListIE-CTCH-ReconfRgstFDD	ProtocolIE-ID ::= 322
id-FACH-ParametersListIE-CTCH-ReconfRostFDD	ProtocolIE-ID ::= 323
id-CauseLevel-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 324
id-CauseLevel-RL-AdditionFailureFDD	ProtocolIE-ID ::= 325
id-CauseLevel-RL-AdditionFailureTDD	ProtocolIE-ID ::= 326
id-CauseLevel-RL-ReconfFailure	ProtocolIE-ID ::= 327

id-CauseLevel-RL-SetupFailureFDD	ProtocolIE-ID ::= 328
id-CauseLevel-RL-SetupFailureTDD	ProtocolIE-ID ::= 329
id-CDCA-ICH-Information	ProtocolIE-ID ::= 330
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 332
id-Closed-Loop-Timing-Adjustment-Mode	ProtocolIE-ID ::= 333
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 334
id-Compressed-Mode-Deactivation-Flag	ProtocolIE-ID ::= 335
id-CPCH-Information	ProtocolIE-ID ::= 336
id-CPCH-Parameters-CTCH-SetupRsp	ProtocolIE-ID ::= 342
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 343
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 346
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 347
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 348
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD	ProtocolIE-ID ::= 349
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 350
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 351
id-DL-CCTrCH-InformationModifyList-RL-ReconfRastTDD	ProtocollE-ID ::= 352
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 353
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrenTDD	ProtocolIE-ID ::= 355
id-DL-DPCH-InformationModify Madifeliat IE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 356
id-DL-DPCH-InformationModify ModifyListIE-RL-ReconfPrepTDD	ProtocollE-ID := 357
id-DL-TDC-Dattern01Count	ProtocolIE-ID := 358
id-DPC-Mode	$\frac{1100000011E}{ProtocollE-ID} ::= 450$
id-DPCHConstant	ProtocoliE ID ::= 359
id_DCCU_EDD_Common_Information	ProtocoliE-ID ··- 339
id-EnhangedDSCUDC	ProtocoliE-ID ··- J4
id-EnhancedDSCHPC	ProtocoliE-ID ··- 110
id-Ellianceubschreinareator	ProtocoliE-ID ··- III
id-Limitod-newor-ingreage-information-Coll-SetupRatEDD	ProtocoliE-ID ··- 362
id DOU Deventeurs (TTOL CaturDay	Protocolle-ID ··- 309
Id-PCH-Parameters-CICH-Setupksp	Protocolle-ID ··= 3/4
id DODOU Information	Protocolle-ID ··= 3/5
10-PCPCH-INIONMALION	Protocolle-ID ··= 3/6
1d-PICH-Parametersitem-CTCH-ReconingstFDD	ProtocollE-ID ::= 380
10-PRACHCONStant	ProtocollE-ID ::= 381
1d-PRACH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocollE-ID ::= 383
1d-PUSCHConstant	ProtocollE-ID ::= 384
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id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 405
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id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 477
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id-UL-DPCH-LCR-InformationModify-AddList	ProtocolIE-ID ::= 483
id-UL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 484
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id-PUSCH-Info-DM-Rprt	ProtocolIE-ID ::= 507
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END

CHANGE REQUEST									
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For <u>HELP</u> on t	using	this form	, see botto	m of this p	bage or	look at t	he pop-up tex	t over the X sy	mbols.
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Title: ೫	€ Init	ial DL Po	ower After	addition of	f CCTrC	CH in Sy	nchronized Re	configuration	
Source: ೫	<mark>€ R-\</mark>	NG3							
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Reason for chang	<b>је:</b> Ж	When allowe	setting up d to be set	a new set differently	of CCT / for eac	rCHs DL ch CCTr	, initial power s CH	should optimal	y be
Summary of chan	9 <b>ge:</b> Ж	In Radio Reconfi on a CC R1 and I	D Link Setu guration ar TrCH basi	ip, Radio L n optional is es to align	ink add paramte to the lat	lition, an er is add est versio	d Synchronise ed to allow se on of the specifi	ed Radio Link tting of initial D cation	L power
Consequences if not approved:	ж	If initial if radio CCTrCI Backwa This cha	downlink p conditions Hs rd Compat ange is bac	ower is or are vary e tibility ckward co	nly allow nough i mpatible	ved on a n differe e with pr	Radio link lev nt timeslots w evious versior	el, power will b hich carry diffe his of the specif	e wasted rent
Clauses affected:	ж	8.2.17	<mark>, 8.3.1, 8.3</mark>	<mark>.2, 9.1.36</mark> ,	9.1.39,	9.1.42,	9.3.3, 9.3.6		
Other specs affected:	ж	Oth Tes O&l	er core spe t specificat M Specifica	ecifications ions ations	s #				
Other comments:	ж								

# How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G_Specs/CRs.htm</u>. Below is a brief summary:

1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.

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

# 8.2.17 Radio Link Setup

# 8.2.17.1 General

This procedure is used for establishing the necessary resources for a new Node B Communication Context in the Node B.

[FDD – The RL Setup procedure is used to establish one or more radio links. The procedure establishes one or more DCHs on all radio links, and in addition, it can include the establishment of one or more DSCHs on one radio link.]

[TDD – The RL Setup procedure is used for establish one radio link including one or more transport channels. The transport channels can be a mixture of DCHs, DSCHs, and USCHs, including also combinations where one or more transport channel types are not present.]

# 8.2.17.2 Successful Operation





The procedure is initiated with a RADIO LINK SETUP REQUEST message sent from the CRNC to Node B.

Upon reception of RADIO LINK SETUP REQUEST message, the Node B shall reserve necessary resources and configure the new Radio Link(s) according to the parameters given in the message.

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

## **Transport Channels Handling:**

## DCH(s):

[TDD – If the *DCH Information* IE is present, the Node B shall configure the new DCH(s) according to the parameters given in the message.]

If the RADIO LINK SETUP REQUEST message includes a *DCH Information* IE with multiple *DCH Specific Info* IEs then, the Node B shall treat the DCHs in the *DCH Information* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.

[FDD – For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [16]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16].]

For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [16]. [FDD - If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [16]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used for the QE, ref. [16].

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

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

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

The received *Frame Handling Priority* IE specified for each Transport Channel should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new RL(s) has been activated.

[FDD – The *Diversity Control Field* IE indicates for each RL (except the first RL in the message) whether the Node B shall combine the concerned RL or not. If the *Diversity Control Field* IE is set to "May", then Node B shall decide for either of the alternatives. If the *Diversity Control Field* IE is set to "Must", the Node B shall combine the RL with one of the other RL. Diversity combining is applied to Dedicated Transport Channels (DCH), i.e. it is not applied to the DSCHs. When a new RL is to be combined, the Node B shall choose which RL(s) to combine it with. If the *Diversity Control Field* IE is set to "Must not", the Node B shall not combine the RL with any other existing RL.]

[FDD – In the RADIO LINK SETUP RESPONSE message the Node B shall indicate with the *Diversity Indication* IE whether the RL is combined or not. In case of combining, only the *Reference RL ID* IE shall be included to indicate one of the existing RLs that the concerned RL is combined with. In case of not combining the Node B shall include in the RL SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.]

[TDD – The Node B shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DCH of this RL.]

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

## DSCH(s):

If the *DSCH Information* IE is present, the Node B shall configure the new DSCH(s) according to the parameters given in the message.

[FDD – If the RADIO LINK SETUP REQUEST message includes the *TFCI2 Bearer Information* IE then the Node B shall support the establishment of a transport bearer on which the DSCH TFCI Signaling control frames shall be received. The Node B shall manage the time of arrival of these frames according to the values of ToAWS and ToAWE specified in the IE's. The *Binding ID* IE and *Transport Layer Address* IE for the new bearer to be set up for this purpose shall be returned in the RADIO LINK SETUP RESPONSE message.]

The Node B shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each DSCH of this RL.

## **[TDD – USCH(s)]:**

[TDD – If the USCH Information IE is present, the Node B shall configure the new USCH(s) according to the parameters given in the message.]

[TDD – In case the USCH Information IE is present, the Node B shall include in the RADIO LINK SETUP RESPONSE the *Binding ID* IE and *Transport Layer Address* IE for the transport bearer to be established for each USCH of this RL.]

## **Physical Channels Handling:**

## [FDD – Compressed Mode]:

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE, the Node B shall store the information about the Transmission Gap Pattern Sequences to be used in the Compressed Mode Configuration. This Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.] [FDD – If the *Downlink compressed mode method* IE in one or more Transmission Gap Pattern Sequence is set to 'SF/2' in the RADIO LINK SETUP REQUEST message, the Node B shall use or not the alternate scrambling code as indicated for each DL Channelisation Code in the *Transmission Gap Pattern Sequence Code Information* IE.]

[FDD – If the RADIO LINK SETUP REQUEST message includes the *Transmission Gap Pattern Sequence Information* IE and the *Active Pattern Sequence Information* IE, the Node B shall use the information to activate the indicated Transmission Gap Pattern Sequence(s) in the new RL. The received *CM Configuration Change CFN* refers to the latest passed CFN with that value The Node B shall treat the received *TGCFN* IEs as follows:]

- [FDD If any received *TGCFN* IE has the same value as the received *CM Configuration Change CFN* IE, the Node B shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD If any received *TGCFN* IE does not have the same value as the received *CM Configuration Change CFN* IE but the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE has already passed, the Node B shall consider the concerning Transmission Gap Pattern Sequence as activated at that CFN.]
- [FDD For all other Transmission Gap Pattern Sequences included in the *Active Pattern Sequence Information* IE, the Node B shall activate each Transmission Gap Pattern Sequence at the first CFN after the CM Configuration Change CFN with a value equal to the *TGCFN* IE for the Transmission Gap Pattern Sequence.]

## [FDD – DL Code Information]:

[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*".]

## General:

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

[FDD – The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control.]

[1.28Mcps TDD – The *UL SIR Target* IE included in the message shall be used by the Node B as initial UL SIR target for the UL inner loop power control according [19] and [21].]

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

[FDD – If the *TFCI Signalling Mode* IE within the RADIO LINK SETUP message indicates that there shall be a hard split on the TFCI field but the *TFCI2 Bearer Information* IE is not included in the message then the Node B shall transmit the TFCI2 field with zero power.]

[FDD - If the *TFCI Signalling Mode* IE within the RADIO LINK SETUP message indicates that there shall be a hard split on the TFCI and the *TFCI2 Bearer Information* IE is included in the message then the Node B shall transmit the TFCI2 field with zero power until Synchronization is achieved on the TFCI2 transport bearer and the first valid DSCH TFCI Signalling control frame is received on this bearer (see ref.[24]).]

## **Radio Link Handling:**

## [FDD – Transmit Diversity]:

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

## **DL Power Control:**

[FDD – The Node B shall start the DL transmission using the initial DL power specified in the message on each DL DPCH of the RL until either UL synchronisation on the Uu is achieved for the RLS or Power
Balancing is activated. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], subclause 5.2.1.2) and the power control procedure (see subclause 8.3.7), but shall always be kept within the maximum and minimum limit specified in the RADIO LINK SETUP REQUEST message. During compressed mode, the  $P_{SIR}(k)$ , as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

[FDD - If the *DPC Mode* IE is present in the RADIO LINK SETUP REQUEST message, the Node B shall apply the DPC mode indicated in the message, and be prepared that the DPC mode may be changed during the life time of the RL. If the *DPC Mode* IE is not present in the RADIO LINK SETUP REQUEST message, DPC mode 0 shall be applied (see ref. [10]).]]

[TDD – The Node B shall determine the initial CCTrCH DL power for each CCTrCH by the following rule: If the CCTrCH Initial DL transmission Power IE is included for that CCTrCH then the Node B shall use that power for the initial CCTrCH DL power, otherwise the initial CCTrCH DL power is the Initial DL transmission Power IE included in the RL Information IE. The Node B shall start the DL transmission on each CCTrCH using the initial CCTrCH DL power, as determined above, specified in the message on each DL DPCH and on each Time Slot of the CCTrCH RL-until the UL synchronisation on the Uu is achieved for the-CCTrCHRL. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22], subclause 4.2.3.3), but shall always be kept within the maximum and minimum limit specified in the RL SETUP REQUEST message.]

[TDD – If the [3.84Mcps TDD - *DL Time Slot ISCPInfo* IE] or [1.28Mcps TDD - *DL Timeslot ISCP LCR* IE] is present, the Node B shall use the indicated value when deciding the initial DL TX Power for each timeslot as specified in [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged].

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

#### General:

[FDD – If the RADIO LINK SETUP REQUEST message includes the SSDT Cell Identity IE and the S-Field Length E, the Node B shall activate SSDT, if supported, using the SSDT Cell Identity IE and SSDT Cell Identity Length IE.]

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

[FDD - If the RADIO LINK SETUP REQUEST message includes the *SSDT Cell Identity for EDSCHPC* IE, the Node B shall activate enhanced DSCH power control, if supported, using the *SSDT Cell Identity for EDSCHPC* IE and *SSDT Cell Identity Length* IE as well as *Enhanced DSCH PC* IE in accordance with ref. [10] subclause 5.2.2. If the RADIO LINK SETUP REQUEST message includes both *SSDT Cell Identity* IE and *SSDT Cell Identity for EDSCHPC* IE, then the Node B shall ignore the value in *SSDT Cell Identity for EDSCHPC* IE]

### [FDD – Radio Link Set Handling]:

[FDD – The *First RLS Indicator* IE indicates if the concerning RL shall be considered part of the first RLS established towards this UE. The *First RLS Indicator* IE shall be used by the Node B together with the value of the *DL TPC pattern* 01 count IE which the Node B has received in the Cell Setup procedure, to determine the initial TPC pattern in the DL of the concerning RL and all RLs which are part of the same RLS, as described in [10], section 5.1.2.2.1.2.]

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

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

[FDD – The UL out-of-sync algorithm defined in [10] shall for each of the established RL Set(s) use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set]

### **Response Message:**

If the RLs are successfully established, the Node B shall start reception on the new RL(s) and respond with a RADIO LINK SETUP RESPONSE message.

After sending of the RADIO LINK SETUP RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation on the Uu and start reception on the new RL. [FDD – The Node B shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in [16].] [TDD – The Node B shall start transmission on the new RL immediately as specified in [16].]

## 8.3.1.1 General

This procedure is used for establishing the necessary resources in the Node B for one or more additional RLs towards a UE when there is already a Node B communication context for this UE in the Node B.

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

## 8.3.1.2 Successful Operation



## Figure: 28 Radio Link Addition procedure, Successful Operation

The procedure is initiated with a RADIO LINK ADDITION REQUEST message sent from the CRNC to the Node B.

Upon reception, the Node B 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 Node B shall prioritise resource allocation for the RL(s) to be established according to Annex A.

## **Physical Channels Handling:**

[TDD – If the *UL DPCH Information* IE is present, the Node B shall configure the new UL DPCH(s) according to the parameters given in the message.]

[TDD – If the *DL DPCH Information* IE is present, the Node B shall configure the new DL DPCH(s) according to the parameters given in the message.]

## [FDD – Compressed Mode]:

[FDD – If the RADIO LINK ADDITION REQUEST includes the *Compressed Mode Deactivation Flag* IE with value "Deactivate", the Node B shall not activate any compressed mode pattern in the new RLs. In all the other cases (Flag set to "Maintain Active" or not present), the ongoing compressed mode (if existing) shall be applied also to the added RLs.]

[FDD- If the RADIO LINK ADDITION REQUEST contains the *Transmission Gap Pattern Sequence Code Information* IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate scrambling code as indicated for each DL Channelisation Code for which the *Transmission Gap Pattern Sequence Code Information* IE is set to "Code Change".]

## [FDD – DL Code Information]:

[FDD – When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to ref. [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*".]

## [TDD – CCTrCH Handling]:

[TDD – If the *DL CCTrCH Information* IE is present, the Node B shall configure the new DL CCTrCH(s) according to the parameters given in the message.]

#### **Radio Link Handling:**

### **Diversity Combination Control:**

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

In the case of combining an RL with existing RL(s) the Node B 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 Node B shall indicate in the RADIO LINK ADDITION RESPONSE message with the Diversity Indication that no combining is done. In this case the Node B shall include both the Transport Layer Address and the binding ID for the transport bearer to be established for each DCH, [TDD – DSCH, USCH] of the RL in the RADIO LINK ADDITION RESPONSE message.

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

[TDD – The Node B shall include in the RADIO LINK ADDITION RESPONSE message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DSCH and USCH.]

## [FDD – Transmit Diversity]:

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

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

#### **DL Power Control:**

[FDD – If the RADIO LINK ADDITION REQUEST message includes the *Initial DL Transmission Power* IE, the Node B shall apply the given power to the transmission on each DL DPCH of the RL when starting transmission until either UL synchronisation on the Uu is achieved for the RLS or Power Balancing is activated. If no *Initial DL Transmission power* IE is included, the Node B shall use any transmission power level currently used on already existing RL's for this UE. No inner loop power control or balancing shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[10], subclause 5.2.1.2) with DPC MODE currently configured for the relevant Node B Communication Context and the downlink power control procedure (see 8.3.7).]

[TDD – If the RADIO LINK ADDITION REQUEST message includes the [3.84Mcps TDD - *Initial DL Transmission Power* IE] [1.28Mcps TDD – *DL Time Slot ISCP Info LCR* IE], the Node B shall determine the initial CCTrCH DL power for each CCTrCH by the following rule: If the *CCTrCH Initial DL transmission Power* IE is included for that CCTrCH then the Node B shall use that power for the initial CCTrCH DL power, otherwise the initial CCTrCH DL power is the *Initial DL transmission Power* IE included in the *RL Information* IE. The Node B shall apply the given power to the transmission on each DL DPCH and on each Time Slot of the <u>CCTrCHRL</u> when starting transmission until the UL synchronisation on the Uu is achieved for the-<u>CCTrCHRL</u>. If no *Initial DL Transmission power* IE is included (even if *CCTrCH Initial DL transmission Power* IEs are included), the Node B shall use any transmission power level currently used on already existing <u>CCTrCH'sRL's</u> for this UE. No inner loop power control shall be performed during this

period. The DL power shall then vary according to the inner loop power control (see ref.[22], subclause 4.2.3.3).]

If the RADIO LINK ADDITION REQUEST message includes the *Maximum DL power* IE, the Node B shall store this value and not transmit with a higher power on any DL DPCH of the RL. If no *Maximum DL power* IE is included, any Maximum DL power stored for already existing RLs for this UE shall be applied. [FDD - During compressed mode, the  $P_{SIR}(k)$ , as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.]

If the RADIO LINK ADDITION REQUEST message includes the *Minimum DL power* IE, the Node B shall store this value and never transmit with a lower power on any DL DPCH of the RL. If no *Minimum DL power* IE is included, any Minimum DL power stored for already existing RLs for this UE shall be applied.

[TDD – If the RADIO LINK ADDITION REQUEST message includes the *DL Time Slot ISCP Info* IE, the Node B shall use the indicated value when deciding the DL TX Power for each timeslot as specified in ref. [21], i.e. it shall reduce the DL TX power in those downlink timeslots of the radio link where the interference is low, and increase the DL TX power in those timeslots where the interference is high, while keeping the total downlink power in the radio link unchanged].

### General:

[FDD – If the RADIO LINK ADDITION REQUEST message contains an *SSDT Cell Identity* IE the Node B shall activate SSDT, if supported, for the concerned new RL, with the indicated SSDT cell identity used for that RL.]

### [FDD – Radio Link Set Handling]:

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

[FDD – For all RLs having a common generation of the TPC commands in the DL with another new or existing RL, the Node B 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 Node B Communication context.]

[FDD – After addition of the new RL(s), the UL out-of-sync algorithm defined in [10] shall for each of the previously existing and newly established RL Set(s) use the maximum value of the parameters N_OUTSYNC_IND and T_RLFAILURE, and the minimum value of the parameters N_INSYNC_IND, that are configured in the cells supporting the radio links of the RL Set.]

## **Response Message:**

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

After sending of the RADIO LINK ADDITION RESPONSE message the Node B shall continuously attempt to obtain UL synchronisation on the Uu and start reception on the new RL. [FDD – The Node B shall start transmission on the new RL after synchronisation is achieved in the DL user plane as specified in [16].] [TDD – The Node B shall start transmission on the new RL immediately as specified in [16].]

# 8.3.2 Synchronised Radio Link Reconfiguration Preparation

## 8.3.2.1 General

The Synchronised Radio Link Reconfiguration Preparation procedure is used to prepare a new configuration of Radio Link(s) related to one UE-UTRAN connection within a Node B.

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

## 8.3.2.2 Successful Operation



## Figure 30: Synchronised Radio Link Reconfiguration Preparation procedure, Successful Operation

The Synchronised Radio Link Reconfiguration Preparation procedure is initiated by the CRNC by sending the message RADIO LINK RECONFIGURATION PREPARE to the Node B. The message shall use the Communication Control Port assigned for this Node B Communication Context.

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

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

## **DCH Modification:**

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

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

- If the *DCHs to Modify* IE includes the *ToAWE* IE for a DCH or a DCH which belongs to a set of co-ordinated DCHs, the Node B shall apply the new ToAWE in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD If the *DCHs to Modify* IE includes the *CCTrCH ID* IE for the DL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Downlink of this DCH in the new configuration.]
- [TDD If the *DCHs to Modify* IE includes the *CCTrCH ID* IE for the UL of a DCH to be modified, the Node B shall apply the new CCTrCH ID in the Uplink of this DCH in the new configuration.]

### **DCH Addition:**

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

- If the *DCHs to Add* IE includes multiple *DCH specific Info* IEs then, the Node B shall treat the DCHs in the *DCHs to Add* IE as a set of co-ordinated DCHs. The Node B shall include these DCHs in the new configuration only if it can include all of them in the new configuration.
- [FDD For DCHs which do not belong to a set of co-ordinated DCHs with the *QE-Selector* IE set to "selected", the Transport channel BER from that DCH shall be the base for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [16]. If the QE-Selector is set to "non-selected", the Physical channel BER shall be used for the QE in the UL data frames, ref. [16].]
- For a set of co-ordinated DCHs the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" shall be used for the QE in the UL data frames, ref. [16]. [FDD If no Transport channel BER is available for the selected DCH the Physical channel BER shall be used for the QE, ref. [16]. If all DCHs have *QE-Selector* IE set to "non-selected" the Physical channel BER shall be used for the QE, ref. [16].]
- The Node B should store the *Frame Handling Priority* IE received for a DCH to be added in the new configuration The received Frame Handling Priority should be used when prioritising between different frames in the downlink on the radio interface in congestion situations within the Node B once the new configuration has been activated.
- The Node B shall use the included *UL FP Mode* IE for a DCH or a set of co-ordinated DCHs to be added as the new FP Mode in the Uplink of the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWS* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window Start Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- The Node B shall use the included *ToAWE* IE for a DCH or a set of co-ordinated DCHs to be added as the new Time of Arrival Window End Point in the user plane for the DCH or the set of co-ordinated DCHs in the new configuration.
- [TDD The Node B shall apply the *CCTrCH ID* IE (for the DL) in the Downlink of this DCH in the new configuration.]
- [TDD The Node B shall apply the *CCTrCH ID* IE (for the UL) in the Uplink of this DCH in the new configuration.]

## **DCH Deletion:**

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

If all of the DCHs belonging to a set of coordinated DCHs are requested to be deleted, the Node B shall not include this set of coordinated DCHs in the new configuration.

#### **Physical Channel Modification:**

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

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

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

- [FDD The Node B shall use the *TFCS* IE for the DL (if it is present) when reserving resources for the downlink of the new configuration. The Node B shall apply the new TFCS in the Downlink of the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *TFCI Signalling Mode* IE or the *TFCI Presence* IE, the Node B shall use the information when building TFCIs in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *DL DPCCH Slot Format* IE, group the Node B shall set the new Downlink DPCCH Structure to the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Multiplexing Position* IE, the Node B shall apply the indicated multiplexing type in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to 'Used', the Node B shall use Limited Power Increase ref. [10] subclause 5.2.1 for the inner loop DL power control in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *Limited Power Increase* IE and the IE is set to 'Not Used', the Node B shall not use Limited Power Increase for the inner loop DL power control in the new configuration.]
- [FDD If the *DL DPCH Information* IE includes the *PDSCH code mapping* IE then the Node B shall apply the defined mapping between TFCI values and PDSCH channelisation codes.]
- [FDD If the *DL DPCH Information* IE includes the *PDSCH RL ID* IE then the Node B shall infer that the PDSCH for the specified user will be transmitted on the defined radio link.]

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *Transmission Gap Pattern Sequence Information* IE the Node B shall store the new information about the Transmission Gap Pattern Sequences to be used in the new Compressed Mode Configuration. This new Compressed Mode Configuration shall be valid in the Node B until the next Compressed Mode Configuration is configured in the Node B or Node B Communication Context is deleted.]

## [TDD – UL/DL CCTrCH Modification]

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

- [TDD – If the IE includes any of *TFCS* IE, *TFCI coding* IE or *Puncture Limit* IE the Node B shall apply these as the new values, otherwise the old values specified for this CCTrCH are still applicable.]

- [TDD If the IE includes any *UL DPCH to add* or *DL DPCH to add* IEs, the Node B shall include this DPCH in the new configuration.]
- [TDD If the IE includes any *UL DPCH to delete* or *DL DPCH to delete* IEs, the Node B shall remove this DPCH in the new configuration.]
- [TDD If the IE includes any UL DPCH to modify or DL DPCH to modify IEs, and includes any of Repetition Period IE, Repetition Length IE, or TDD DPCH Offset IE or the message includes UL/DL Timeslot Information and includes any of [3.84Mcps TDD Midamble shift and Burst Type IE, Time Slot IE], [1.28Mcps TDD Midamble shift LCR IE, Time Slot LCR IE], or TFCI presence IE or the message includes UL/DL Code information and includes [3.84Mcps TDD TDD Channelisation Code IE], [1.28Mcps TDD TDD Channelisation Code IE], [1.28Mcps TDD TDD Channelisation Code LCR IE], the Node B shall apply these specified information elements as the new values, otherwise the old values specified for this DPCH configuration are still applicable.]
- [1.28Mcps TDD If the *UL CCTrCH to Modify* IE includes the *UL SIR Target* IE, the Node B shall use the value for the UL inner loop power control according [19] and [21] when the new configuration is being used.]

## [TDD – UL/DL CCTrCH Addition]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes any *UL CCTrCH to Add* IE or *DL CCTrCH to Add* IE, the Node B shall include this CCTrCH in the new configuration.]

[TDD – If the *UL/DL CCTrCH to Add* IE includes any *UL/DL DPCH Information* IE, the Node B shall reserve necessary resources for the new configuration of the UL/DL DPCH(s) according to the parameters given in the message.]

[TDD – If the RADIO LINK RECONFIGURATION PREPARE message includes a *DL CCTrCH to Add* IE, the Node B shall set the TPC step size of that CCTrCH to the same value as the lowest numbered DL CCTrCH in the current configuration.]

[1.28Mcps TDD – The Node B shall use the *UL SIR Target* IE in the *UL CCTrCH to Add* IE as the UL SIR value for the inner loop power control for this CCTrCH according [19] and [21] 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 Node B shall remove this CCTrCH in the new configuration.]

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

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

The Node B shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each DSCH.

[FDD – If the RADIO LINK RECONFIGURATION PREPARE message includes the *TFCI2 Bearer Information* IE then the Node B shall support the establishment of a transport bearer on which the DSCH TFCI Signaling control frames shall be received if one does not already exist or shall apply the new values if such a bearer does already exist. The *Binding ID* IE and *Transport Layer Address* IE of any new bearer to be set up for this purpose shall be returned in the RADIO LINK RECONFIGURATION READY message. If the RADIO LINK RECONFIGURATION PREPARE message specifies that the TFCI2 transport bearer is to be deleted then the Node B shall release the resources associated with that bearer in the new configuration.

[FDD – If the *TFCI Signalling Mode* IE within the RADIO LINK RECONFIGURATION PREPARE message indicates that there shall be a hard split on the TFCI field but a TFCI2 transport bearer has not already been set up and *TFCI2 Bearer Information* IE is not included in the message then the Node B shall transmit the TFCI2 field with zero power in the new configuration.]

[FDD – If the *TFCI Signalling Mode* IE within the RADIO LINK RECONFIGURATION PREPARE message indicates that there shall be a hard split on the TFCI and the *TFCI2 Bearer Information* IE is included in the message then the Node B shall transmit the TFCI2 field with zero power until Synchronisation is achieved on the TFCI2 transport bearer and the first valid DSCH TFCI Signalling control frame is received on this bearer in the new configuration (see ref. [24]).]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *DSCH Common Information IE*, the Node B shall treat it as follows:]

- [FDD If the *Enhanced DSCH PC Indicator* IE is included and set to "Enhanced DSCH PC Active in the UE ", the Node B shall activate enhanced DSCH power control in accordance with ref. [10] subclause 5.2.2, if supported, using either:]
  - [FDD the SSDT Cell Identity for EDSCHPC IE in the RL Information IE, if the SSDT Cell Identity IE is not included in the RL Information IE or]
  - [FDD the SSDT Cell Identity IE in the RL Information IE, if both the SSDT Cell Identity IE and the SSDT Cell Identity for EDSCHPC IE are included in the RL Information IE.]

[FDD - together with the SSDT Cell Identity Length IE in UL DPCH Information IE, and Enhanced DSCH PC IE, in the new configuration.]

[FDD - If the RADIO LINK RECONFIGURATION PREPARE message includes the *Enhanced DSCH PC Indicator* IE set to "Enhanced DSCH PC not Active in the UE", the Node B shall deactivate enhanced DSCH power control in the new configuration.]

#### [TDD – USCH Addition/Modification/Deletion:]

- [TDD If the RADIO LINK RECONFIGURATION PREPARE message includes USCH information for the USCHs to be added/modified/deleted then the Node B shall use this information to add/modify/delete the indicated USCH channels to/from the radio link, in the same way as the DCH info is used to add/modify/release DCHs.]
- [TDD The Node B shall include in the RADIO LINK RECONFIGURATION READY message both the *Transport Layer Address* IE and the *Binding ID* IE for the transport bearer to be established for each USCH.]

#### **RL Information:**

If the RADIO LINK RECONFIGURATION PREPARE message includes the *RL Information* IE, the Node B shall treat it as follows:

- [FDD When more than one DL DPDCH are assigned per RL, the segmented physical channel shall be mapped on to DL DPDCHs according to [8]. When p number of DL DPDCHs are assigned to each RL, the first pair of DL Scrambling Code and FDD DL Channelisation Code Number corresponds to "PhCH number 1", the second to "PhCH number 2", and so on until the pth to "PhCH number p".]
- [FDD If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT Active in the UE", the Node B may activate SSDT using the *SSDT Cell Identity* IE in the new configuration.]
- [FDD If the *RL Information* IE includes the *SSDT Indication* IE set to "SSDT not Active in the UE", the Node B shall deactivate SSDT in the new configuration.]
- [FDD If the *RL Information* IE includes a *DL Code Information* IE, the Node B shall apply the values in the new configuration.]
- [FDD If the *RL Information* IE contains the *Transmission Gap Pattern Sequence Code Information* IE in the *DL Code Information* IE for any of the allocated DL Channelisation Codes, the Node B shall apply the alternate scrambling code as indicated whenever the downlink compressed mode method SF/2 is active in the new configuration.]
- If the *RL Information* IE includes the *Maximum DL Power* and/or the *Minimum DL Power* IEs, the Node B shall apply the values in the new configuration. [FDD During compressed mode, the *P*_{SIR}(*k*), as described in ref.[10] subclause 5.2.1.3, shall be added to the maximum DL power in slot k.].
- [TDD If the *RL Information* IE includes the *Initial DL Transmission Power* IE, the Node B <u>shall determine the</u> initial CCTrCH DL power for each CCTrCH by the following rule: If the *CCTrCH Initial DL transmission Power* IE is included for that CCTrCH then the Node B shall use that power for the initial CCTrCH DL power, otherwise the initial CCTrCH DL power is the *Initial DL transmission Power* IE included in the *RL Information* IE. The Node B shall apply the <u>determined initial CCTrCH DL given</u> power to the transmission on each DPCH of the CCTrCH when starting transmission on a new CCTrCH.until the UL synchronisation on the Uu is achieved for the CCTrCH. If no *Initial DL Transmission power* IE is included with a new CCTrCH (even if

<u>CCTrCH Initial DL transmission Power IEs are included</u>), the Node B shall use any transmission power level currently used on already existing CCTrCH's when starting transmission for a new CCTrCH. No inner loop power control shall be performed during this period. The DL power shall then vary according to the inner loop power control (see ref.[22], subclause 4.2.3.3).]

### General

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

In the RADIO LINK RECONFIGURATION READY message, the Node B shall include the *RL Information Response* IE for each affected Radio Link.

The Node B shall include in the RADIO LINK RECONFIGURATION READY message the Transport Layer Address and the Binding ID for any Transport Channel being added, or any Transport Channel being modified for which a new transport bearer was requested with the *Transport Bearer Request Indicator* IE.

In case of a DCH requiring a new transport bearer on Iub, the *Transport Layer Address* IE and the *Binding ID* shall be included in the IE DCH Information Response IE.

In case of a set of coordinated DCHs requiring a new transport bearer on Iub, the *Transport Layer Address* IE and the *Binding ID* IE in the *DCH Information Response* IE shall be included only for one of the DCH in the set of coordinated DCHs.

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

# 9.1.36 RADIO LINK SETUP REQUEST

## 9.1.36.1 FDD message

# 9.1.36.2 TDD message

IE/Group Name	Presence	Range	IE type and	Semantics description	Criticality	Assigned Criticality
			reference			
Message Discriminator	Μ		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
CRNC Communication Context ID	M		9.2.1.18	The reserved value "All CRNCC C" shall not be used.	YES	reject
Transaction ID	Μ		9.2.1.62		-	
UL CCTrCH Information		0 to <maxno CCTrCH&gt;</maxno 			EACH	notify
>CCTrCH ID	Μ		9.2.3.3		_	
>TFCS	М		9.2.1.58		-	
>TFCI Coding	М		9.2.3.22		-	
>Puncture Limit	М		9.2.1.50		-	
> UL SIR Target	0		UL SIR 9.2.1.67A	Mandatory for 1.28Mcps TDD; not applicable for 3.84Mcps TDD	YES	reject
>UL DPCH Information		01		For 3.84Mcps TDD only	YES	notify
>>Repetition Period	M		9.2.3.16		_	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		_	
>>UL Timeslot Information	М		9.2.3.26C		-	
>UL DPCH Information LCR		01		For 1.28Mcps TDD only	YES	notify
>>Repetition Period	М		9.2.3.16		-	
>>Repetition Length	M		9.2.3.15		-	
>>TDD DPCH Offset	M		9.2.3.19A		_	
>>UL Timeslot Information LCR	М		9.2.3.26E		-	
DL CCTrCH Information		0 to <maxno CCTrCH&gt;</maxno 			EACH	notify
>CCTrCH ID	Μ		9.2.3.3		_	
>TFCS	М		9.2.1.58		-	
>TFCI Coding	M		9.2.3.22		-	
>Puncture Limit	M		9.2.1.50		_	
>TDD TPC DL Step Size >TPC CCTrCH List	M	0 to <maxnoc CTrCH&gt;</maxnoc 	9.2.3.21	List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	M		CCTrCH ID 9.2.3.3		_	
>DL DPCH information		01		For	YES	notify

				3.84Mcps		
>> Popotition Poriod	М		92316	TDD only	_	
>>Repetition Longth	M		92315		_	
	M		9 2 3 19A		_	
	M		9234F		_	
			0.2.0.12			
>DL DPCH information		01		For	YES	notify
LCR		•		1.28Mcps TDD only		
>>Repetition Period	Μ		9.2.3.16		_	
>>Repetition Length	Μ		9.2.3.15		_	
>>TDD DPCH Offset	М		9.2.3.19A		_	
>>DL Timeslot	Μ		9.2.3.40		_	
Information LCR						
>>TSTD Indicator	Μ		9.2.1.64		_	
>CCTrCH Initial DL	<u>0</u>		DL Power	Initial power	<u>YES</u>	<u>ignore</u>
Transmission Power			<u>9.2.1.21</u>	on DPCH		
DCH Information	0		DCH TDD Information		YES	reject
	0		9.2.3.4C		VES	reject
DSCH Information	0		TDD		TES	Teject
			9.2.3.5A			
USCH Information	0		9.2.3.28		YES	reject
RL Information		1	_		YES	reject
>RL ID	М		9.2.1.53		_	
>C-ID	Μ		9.2.1.9		_	
>Frame Offset	М		9.2.1.31		_	
>Special Burst Scheduling	Μ		9.2.3.18A		_	
>Initial DL transmission	Μ		DL Power	Initial power	_	
Power			9.2.1.21	on DPCH		
>Maximum DL power	М		DL Power	Maximum	_	
			9.2.1.21	allowed		
				DPCH		
>Minimum DL power	М		DL Power	Minimum	_	
			9.2.1.21	allowed		
				power on DPCH		
>DL Time Slot ISCP Info	0		9.2.3.4F	For 3.84Mcps	-	
				TDD only		
>DL Time Slot ISCP Info	0		9.2.3.40A	For	YES	reject
LCR				1.28Mcps		
	1	1	L			

Range bound	Explanation
MaxnoCCTrCH	Number of CCTrCH for one UE.

# 9.1.39 RADIO LINK ADDITION REQUEST

# 9.1.39.1 FDD Message

## 9.1.39.2 TDD Message

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Node B Communication Context ID	М		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	Μ		9.2.1.62		—	
UL CCTrCH Information		0 to <maxn o CCTrC H&gt;</maxn 			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		—	
>UL DPCH Information		01		For 3.84Mcps TDD only	YES	notify
>>Repetition Period	М		9.2.3.16		_	
>>Repetition Length	М		9.2.3.15		—	
>>TDD DPCH Offset	М		9.2.3.19A		_	
>>UL Timeslot Information	М		9.2.3.26C		_	
>UL DPCH Information LCR		01		For 1.28Mcps TDD only	YES	notify
>>Repetition Period	М		9.2.3.16		—	
>>Repetition Length	Μ		9.2.3.15		_	
>>TDD DPCH Offset	М		9.2.3.19A		-	
>>UL Timeslot Information LCR	Μ		9.2.3.26E		_	
DL CCTrCH Information		0 to <maxn o CCTrC H&gt;</maxn 			GLOBAL	reject
>CCTrCH ID	Μ		9.2.3.3		_	
>DL DPCH information		01		For 3.84Mcps TDD only	YES	notify
>>Repetition Period	М		9.2.3.16		_	
>>Repetition Length	М		9.2.3.15		—	
>>TDD DPCH Offset	Μ		9.2.3.19A		_	
>>DL Timeslot Information	М		9.2.3.4E		_	
>DL DPCH information LCR		01		For 1.28Mcps TDD only	YES	notify
>>Repetition Period	М		9.2.3.16		—	
>>Repetition Length	М		9.2.3.15		_	
>>TDD DPCH Offset	М		9.2.3.19A		_	
>>DL Timeslot Information LCR	М		9.2.3.40		_	
<u>&gt;CCTrCH Initial DL</u> <u>Transmission Power</u>	<u>O</u>		DL Power 9.2.1.21	Initial power on DPCH	<u>YES</u>	ignore
RL Information		1			YES	reject
>RL ID	М		9.2.1.53		—	

1**50** 

>C-ID	M	9.2.1.9		-	
>Frame Offset	Μ	9.2.1.31		—	
>Diversity Control Field	Μ	9.2.1.25		—	
>Initial DL transmission Power	0	DL Power 9.2.1.21	Initial power on DPCH	_	
>Maximum DL power	0	DL Power 9.2.1.21	Maximum allowed power on DPCH	_	
>Minimum DL power	0	DL Power 9.2.1.21	Minimum allowed power on DPCH	-	
>DL Time Slot ISCP Info	0	9.2.3.4F	For 3.84Mcps TDD only	-	
>DL Time Slot ISCP Info LCR	0	9.2.3.40A	For 1.28Mcps TDD only	YES	reject

Range bound	Explanation
MaxnoCCTrCH	Number of CCTrCH for one UE.

# 9.1.42 RADIO LINK RECONFIGURATION PREPARE

## 9.1.42.1 FDD Message

# 9.1.42.2 TDD Message

IE/Group Name	Presence	Range	IE Type	Semantic	Criticality	Assigned Criticality
			Reference	Description		Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	М		9.2.1.46		YES	reject
Node B Communication Context	М		9.2.1.48	The reserved value "All NBCC" shall not be used.	YES	reject
Transaction ID	М		9.2.1.62		_	
UL CCTrCH to Add		0 <maxno of CCTrC Hs&gt;</maxno 			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		_	
>TFCS	М		9.2.1.58		_	
>TFCI Coding	М		9.2.3.22		_	
>Puncture Limit	М		9.2.1.50		_	
> UL SIR Target	0		UL SIR 9.2.1.67A	Mandatory for 1.28Mcps TDD; not applicable for 3.84Mcps TDD	YES	reject
>UL DPCH Information		01		For 3.84Mcps TDD only	YES	reject
>>Repetition Period	М		9.2.3.16		_	
>>Repetition Length	М		9.2.3.15		_	
>>TDD DPCH Offset	М		9.2.3.19A		_	
>>UL Timeslot Information	М		9.2.3.26C		_	
>UL DPCH Information LCR		01		For 1.28Mcps TDD only	YES	reject
>>Repetition Period	М		9.2.3.16		_	
>>Repetition Length	М		9.2.3.15		_	
>>TDD DPCH Offset	M		9.2.3.19A		_	
>>UL Timeslot Information LCR	М		9.2.3.26E		-	
UL CCTrCH to Modify		0 <maxno of CCTrC Hs&gt;</maxno 			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		_	
>TFCS	0		9.2.1.58			
>TFCI Coding	0		9.2.3.22		-	
>Puncture Limit	0		9.2.1.50			
> UL SIR Target	0		UL SIR 9.2.1.67A	For 1.28Mcps TDD only	YES	reject
>UL DPCH to add		01		For 3.84Mcps TDD only	YES	reject

>>Repetition Period	М		9.2.3.16		-	
>>Repetition Length	Μ		9.2.3.15		_	
>>TDD DPCH Offset	Μ		9.2.3.19A		_	
>>UL Timeslot Information	Μ		9.2.3.26C		-	
>UL DPCH to modify		01			YES	reject
>>Repetition Period	0		9.2.3.16		-	
>>Repetition Length	0		9.2.3.15		_	
>>TDD DPCH Offset	0		9.2.3.19A		—	
>>UL Timeslot Information		0 to		For	_	
		<maxno< td=""><td></td><td>3.84Mcps</td><td></td><td></td></maxno<>		3.84Mcps		
Time Olet	M	ofULts>	0 2 3 23	TDD only		
>>> I Ime Slot			9.2.3.23		_	
>>>IVIIdamble Shift and	U		3.2.3.1		_	
	0		92157		_	
>>>TFCFFlesence	U	0 to	5.2.1.57		_	
>>>0L Code		<maxno< td=""><td></td><td></td><td></td><td></td></maxno<>				
mormation		OfDPC				
		H>				
>>>DPCH ID	M		9.2.3.5		-	
>>>TDD	0		9.2.3.19		-	
Channelisation Code				-	01.05.41	
>>UL Timeslot Information		0 to		For 1.28Mons	GLOBAL	reject
LCR		ofUlts		TDD only		
		CR>		100 only		
>>>Time Slot LCR	Μ		9.2.3.24A		_	
>>>Midamble shift LCR	0		9.2.3.7A			
>>>TFCI Presence	0		9.2.1.57		_	
>>>UL Code		0 to			-	
Information LCR		<maxno< td=""><td></td><td></td><td></td><td></td></maxno<>				
	М		9235		_	
	0	-	92319a		_	
Channelisation Code	U		0.2.0.104			
		0			GLOBAL	reiect
		<maxno< td=""><td></td><td></td><td></td><td></td></maxno<>				
		of				
		DPCHs				
	М	>	9.2.3.5		_	
		01	5.2.0.0	For	YES	reject
>0E DF CH to add ECK		•		1.28Mcps		reject
				TDD only		
>>Repetition Period	M		9.2.3.16		-	
>>Repetition Length	Μ		9.2.3.15		_	
>>TDD DPCH Offset	Μ	_	9.2.3.19A		_	
>>UL Timeslot Information	M		9.2.3.26E		-	
LCR						
UL CCTrCH to Delete						
		0			GLOBAL	reject
		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>reject</td></maxno<>			GLOBAL	reject
		0 <maxno of CCTrC</maxno 			GLOBAL	reject
		0 <maxno of CCTrC Hs&gt;</maxno 			GLOBAL	reject
>CCTrCH ID		0 <maxno of CCTrC Hs&gt;</maxno 	9.2.3.3		GLOBAL	reject
>CCTrCH ID DL CCTrCH to Add	M	0 <maxno of CCTrC Hs&gt; 0</maxno 	9.2.3.3		GLOBAL – GLOBAL	reject
>CCTrCH ID DL CCTrCH to Add	M	0 <maxno of CCTrC Hs&gt; 0 <maxno< td=""><td>9.2.3.3</td><td></td><td>GLOBAL – GLOBAL</td><td>reject</td></maxno<></maxno 	9.2.3.3		GLOBAL – GLOBAL	reject
>CCTrCH ID DL CCTrCH to Add	M	0 <maxno of CCTrC Hs&gt; 0 <maxno of</maxno </maxno 	9.2.3.3		GLOBAL – GLOBAL	reject

	N.4		0000			
>CCTrCHID	IV1		9.2.3.3		-	
>TFCS	М		9.2.1.58		-	
>TFCI Coding	М		9.2.3.22		-	
>PunctureLimit	М		9.2.1.50		-	
>TPC CCTrCH List		0 to <maxno CCTrC Hs&gt;</maxno 		List of uplink CCTrCH which provide TPC	-	
>>TPC CCTrCH ID	Μ		CCTrCH ID 9.2.3.3		_	
>DL DPCH Information		01		For 3.84Mcps TDD only	YES	reject
>>Repetition Period	М		9.2.3.16		_	
>>Repetition Length	М		9.2.3.15		_	
>>TDD DPCH Offset	М		9.2.3.19A		-	
>>DL Timeslot Information	М		9.2.3.4E		-	
>DL DPCH Information LCR		01		For 1.28Mcps TDD only	YES	reject
>>Repetition Period	М		9.2.3.16		-	
>>Repetition Length	М		9.2.3.15		-	
>>TDD DPCH Offset	М		9.2.3.19A		-	
>>DL Timeslot Information LCR	М		9.2.3.40		-	
<u>&gt;CCTrCH Initial DL</u> Transmission Power	<u>0</u>		DL Power 9.2.1.21	Initial power on DPCH	YES	<u>ignore</u>

DL CCTrCH to Modify		0			GLOBAL	reject
		<maxno< td=""><td></td><td></td><td></td><td></td></maxno<>				
		CCTrC				
		Hs>				
>CCTrCH ID	М		9.2.3.3.		_	
>TFCS	0		9.2.1.58		_	
>TFCI Coding	0		9.2.3.22		_	
>PunctureLimit	0		9.2.1.50		_	
>TPC CCTrCH List		0 to		List of uplink	-	
		<maxno< td=""><td></td><td>CCTrCH</td><td></td><td></td></maxno<>		CCTrCH		
				wnich provide TPC		
>>TPC CCTrCH ID	М	1102	CCTrCH		_	
			ID			
			9.2.3.3			
>DL DPCH to add		01		For	YES	reject
				3.84Mcps		
>>Repetition Period	М		9.2.3.16	TEE only	_	
>>Repetition Length	М		9.2.3.15		_	
	М		9.2.3.19A		_	
	M		9.2.3.4E			
>DL DPCH to modify		01			YES	reiect
>>Repetition Period	0		9.2.3.16			. ejeet
>>Repetition Length	0		9.2.3.15		_	
	0		9.2.3.19A		_	
>>DI Timeslot Information		0		For	_	
		<maxno< td=""><td></td><td>3.84Mcps</td><td></td><td></td></maxno<>		3.84Mcps		
		ofDLts>		TDD only		
>>>Time Slot	M		9.2.3.23		_	
>>>Midamble Shift and	0		9.2.3.7		_	
Burst Type			0.04.57			
>>>TFCI Presence	0		9.2.1.57			
>>>DL Code		0			_	
Information		OfDPC				
		H>				
>>>>DPCH ID	М		9.2.3.5		_	
>>>>TDD	0		9.2.3.19		_	
Channelisation Code						
>>DL Timeslot Information		0		For	GLOBAL	reject
LCR		<maxno< td=""><td></td><td>1.28Mcps</td><td></td><td></td></maxno<>		1.28Mcps		
				TDD only		
>>>Time Slot LCR	М	010	9.2.3.24A		_	
>>>Midamble shift LCR	0		9.2.3.7A			
>>>TFCI Presence	0		9.2.1.57		_	
>>>DL Code		0			_	
Information LCR		<maxno< td=""><td></td><td></td><td></td><td></td></maxno<>				
		OfDPC				
	М	-	9.2.3.5		_	
	0		9.2.3.19a		_	
Channelisation Code						
LCR						
>DL DPCH to delete		0		1	GLOBAL	reject
		<maxno< td=""><td></td><td></td><td></td><td></td></maxno<>				
		OT DPCHs				

		>				
>>DPCH ID	М		9.2.3.5		—	
>DL DPCH to add LCR		01		For 1.28Mcps TDD only	YES	reject
>>Repetition Period	М		9.2.3.16		_	
>>Repetition Length	М		9.2.3.15		_	
>>TDD DPCH Offset	М		9.2.3.19A		_	
>>DL Timeslot Information LCR	М		9.2.3.40		-	
DL CCTrCH to Delete		0 <maxno of CCTrC Hs&gt;</maxno 			GLOBAL	reject
>CCTrCH ID	М		9.2.3.3		_	
DCHs to Modify	0		DCHs TDD to Modify 9.2.3.4D		YES	reject
DCHs to Add	0		DCH TDD Information 9.2.3.4C		YES	reject
DCHs to Delete		0 <max noofDC Hs&gt;</max 			GLOBAL	reject
>DCH ID	М		9.2.1.20		_	
DSCH Information to modify		0 <maxno of DSCHs &gt;</maxno 			GLOBAL	reject
DOOLUD	N/		0 2 4 27			
>DSCH ID	IVI		9.2.1.27		-	
>DSCH ID >CCTrCH ID	0		9.2.1.27	DL CCTrCH in which the DSCH is mapped		
>DSCH ID >CCTrCH ID >Transport Format Set	0		9.2.1.27 9.2.3.3 9.2.1.59	DL CCTrCH in which the DSCH is mapped	-	
>DSCH ID     >CCTrCH ID     >Transport Format Set     >Allocation/Retention Priority	0 0 0		9.2.1.27 9.2.3.3 9.2.1.59 9.2.1.1A	DL CCTrCH in which the DSCH is mapped		
SDSCH ID     SCCTrCH ID     STransport Format Set     SAllocation/Retention Priority     SFrame Handling Priority	0 0 0 0		9.2.1.27 9.2.3.3 9.2.1.59 9.2.1.1A 9.2.1.30	DL CCTrCH in which the DSCH is mapped		
>DSCH ID     >CCTrCH ID     >Transport Format Set     >Allocation/Retention Priority     >Frame Handling Priority     >ToAWS	0 0 0 0 0 0		9.2.1.27 9.2.3.3 9.2.1.59 9.2.1.1A 9.2.1.30 9.2.1.61	DL CCTrCH in which the DSCH is mapped		
<ul> <li>&gt;DSCH ID</li> <li>&gt;CCTrCH ID</li> <li>&gt;Transport Format Set</li> <li>&gt;Allocation/Retention Priority</li> <li>&gt;Frame Handling Priority</li> <li>&gt;ToAWS</li> <li>&gt;ToAWE</li> </ul>	0 0 0 0 0 0 0		9.2.1.27 9.2.3.3 9.2.1.59 9.2.1.1A 9.2.1.30 9.2.1.61 9.2.1.60	DL CCTrCH in which the DSCH is mapped		
<ul> <li>&gt;DSCH ID</li> <li>&gt;CCTrCH ID</li> <li>&gt;Transport Format Set</li> <li>&gt;Allocation/Retention Priority</li> <li>&gt;Frame Handling Priority</li> <li>&gt;ToAWS</li> <li>&gt;ToAWE</li> <li>&gt;Transport Bearer Request Indicator</li> </ul>	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		9.2.1.27 9.2.3.3 9.2.1.59 9.2.1.1A 9.2.1.30 9.2.1.61 9.2.1.60 9.2.1.62A	DL CCTrCH in which the DSCH is mapped		
<ul> <li>&gt;DSCH ID</li> <li>&gt;CCTrCH ID</li> <li>&gt;Transport Format Set</li> <li>&gt;Allocation/Retention Priority</li> <li>&gt;Frame Handling Priority</li> <li>&gt;ToAWS</li> <li>&gt;ToAWE</li> <li>&gt;Transport Bearer Request Indicator</li> <li>DSCH Information to add</li> </ul>	M 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		9.2.1.27 9.2.3.3 9.2.1.59 9.2.1.1A 9.2.1.30 9.2.1.61 9.2.1.60 9.2.1.62A DSCH TDD Information 9.2.3.5A	DL CCTrCH in which the DSCH is mapped		reject
>DSCH ID         >CCTrCH ID         >Transport Format Set         >Allocation/Retention Priority         >Frame Handling Priority         >ToAWS         >Transport Bearer Request Indicator         DSCH Information to add	M 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 Maxno of DSCHs >	9.2.1.27 9.2.3.3 9.2.1.59 9.2.1.1A 9.2.1.30 9.2.1.61 9.2.1.60 9.2.1.62A DSCH TDD Information 9.2.3.5A	DL CCTrCH in which the DSCH is mapped	_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _	reject
>DSCH ID         >CCTrCH ID         >Transport Format Set         >Allocation/Retention Priority         >Frame Handling Priority         >ToAWS         >ToAWE         >Transport Bearer Request Indicator         DSCH Information to add         DSCH Information to delete         >DSCH ID	M 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 Maxno of DSCHs >	9.2.1.27 9.2.3.3 9.2.1.59 9.2.1.1A 9.2.1.30 9.2.1.61 9.2.1.60 9.2.1.62A DSCH TDD Information 9.2.3.5A 9.2.1.27	DL CCTrCH in which the DSCH is mapped	_             _	reject
>DSCH ID         >CCTrCH ID         >Transport Format Set         >Allocation/Retention Priority         >Frame Handling Priority         >ToAWS         >ToAWE         >Transport Bearer Request Indicator         DSCH Information to add         DSCH Information to delete         >DSCH ID         USCH Information to modify	M 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 Maxno of DSCHs > 0 <maxno of USCHs &gt;</maxno 	9.2.1.27 9.2.3.3 9.2.1.59 9.2.1.1A 9.2.1.30 9.2.1.61 9.2.1.60 9.2.1.62A DSCH TDD Information 9.2.3.5A 9.2.1.27	DL CCTrCH in which the DSCH is mapped	- - - - - - - YES GLOBAL	reject
>DSCH ID         >CCTrCH ID         >Transport Format Set         >Allocation/Retention Priority         >Frame Handling Priority         >ToAWS         >ToAWE         >Transport Bearer Request Indicator         DSCH Information to add         DSCH Information to delete         >DSCH ID         USCH Information to modify	M 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 <maxno of DSCHs &gt; 0 <maxno of USCHs &gt;</maxno </maxno 	9.2.1.27 9.2.3.3 9.2.1.59 9.2.1.1A 9.2.1.30 9.2.1.61 9.2.1.60 9.2.1.62A DSCH TDD Information 9.2.3.5A 9.2.1.27 9.2.1.27	DL CCTrCH in which the DSCH is mapped	- - - - - - - - YES GLOBAL	reject
>DSCH ID         >CCTrCH ID         >Transport Format Set         >Allocation/Retention Priority         >Frame Handling Priority         >ToAWS         >ToAWE         >Transport Bearer Request Indicator         DSCH Information to add         DSCH Information to delete         >DSCH ID         USCH Information to modify         >USCH ID         >USCH ID         >USCH ID	M 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 <maxno of DSCHs &gt; 0 <maxno of USCHs &gt; USCHs &gt;</maxno </maxno 	9.2.1.27 9.2.3.3 9.2.1.59 9.2.1.1A 9.2.1.30 9.2.1.61 9.2.1.60 9.2.1.62A DSCH TDD Information 9.2.3.5A 9.2.3.5A 9.2.1.27 9.2.1.27	DL CCTrCH in which the DSCH is mapped	- - - - - - - - - - - - - - - - - - -	reject
>DSCH ID         >CCTrCH ID         >Transport Format Set         >Allocation/Retention Priority         >Frame Handling Priority         >ToAWS         >ToAWE         >Transport Bearer Request Indicator         DSCH Information to add         DSCH Information to delete         >DSCH ID         USCH ID         USCH ID         >USCH ID	M O O O O O O O O O M O M M M M O O O M M O O O O O O O O O O O O O	0 Maxno of DSCHs N Maxno of USCHs N N N N N N N N N N N N N	9.2.1.27 9.2.3.3 9.2.1.59 9.2.1.1A 9.2.1.30 9.2.1.61 9.2.1.62A DSCH TDD Information 9.2.3.5A 9.2.3.5A 9.2.1.27 9.2.1.27 9.2.1.27	DL CCTrCH in which the DSCH is mapped	- - - - - - - - - - - - - - - - - - -	reject

-

				USCH is mapped		
>Transport Bearer Request Indicator	М		9.2.1.62A		_	
USCH Information to add	0		USCH Information 9.2.3.28		YES	reject
USCH Information to delete		0 <maxno of USCHs &gt;</maxno 			GLOBAL	reject
>USCH ID	М		9.2.3.27		—	
RL Information		01			YES	reject
>RL ID	М		9.2.1.53		—	
>Maximum Downlink Power	0		DL Power 9.2.1.21	Maximum allowed power on DPCH	_	
>Minimum Downlink Power	0		DL Power 9.2.1.21	Minimum allowed power on DPCH	_	
>Initial DL transmission Power	0		DL Power 9.2.1.21	Initial power on DPCH	YES	ignore

Range Bound	Explanation
MaxnoofDCHs	Maximum number of DCHs for a UE.
MaxnoofCCTrCHs	Maximum number of CCTrCHs for a UE.
Maxnoof DPCHs	Maximum number of DPCHs in one CCTrCH for
	3.84Mcps TDD.
MaxnoOfDPCHLCRs	Maximum number of DPCHs in one CCTrCH for
	1.28Mcps TDD.
MaxnoofDSCHs	Maximum number of DSCHs for one UE
MaxnoofUSCHs	Maximum number of USCHs for one UE
MaxnoofDLts	Maximum number of Downlink time slots per Radio Link
	for 3.84Mcps TDD.
MaxnoofDLtsLCR	Maximum number of Downlink time slots per Radio Link
	for 1.28Mcps TDD.
MaxnoofULts	Maximum number of Uplink time slots per Radio Link for
	3.84Mcps TDD.
MaxnoofULtsLCR	Maximum number of Uplink time slots per Radio Link for
	1.28Mcps TDD.

## 9.3.3 PDU Definitions

BEGIN



IMPORTS

Active-Pattern-Sequence-Information, AddorDeleteIndicator, AICH-Power, AICH-TransmissionTiming, AllocationRetentionPriority, APPreambleSignature, APSubChannelNumber, AvailabilityStatus, BCCH-ModificationTime, BindingID, BlockingPriorityIndicator, SCTD-Indicator, Cause, CCTrCH-ID, CDSubChannelNumbers, CellParameterID, CellSyncBurstAvailabilityIndicator, CellSyncBurstCode, CellSyncBurstCodeShift, CellSyncBurstRepetitionPeriod, CellSyncBurstSIR, CellSyncBurstTiming, CellSyncBurstTimingThreshold, CFN, Channel-Assignment-Indication, ChipOffset, C-ID, Closedlooptimingadjustmentmode,

CommonChannelsCapacityConsumptionLaw, Compressed-Mode-Deactivation-Flag, CommonMeasurementAccuracy, CommonMeasurementType, CommonMeasurementValue, CommonMeasurementValueInformation, CommonPhysicalChannelID, Common-PhysicalChannel-Status-Information, Common-TransportChannel-Status-Information, CommonTransportChannelID, CommonTransportChannel-InformationResponse, CommunicationControlPortID, ConfigurationGenerationID, ConstantValue, CriticalityDiagnostics, CPCH-Allowed-Total-Rate, CPCHScramblingCodeNumber, CPCH-UL-DPCCH-SlotFormat, CRNC-CommunicationContextID, CSBMeasurementID, CSBTransmissionID, DCH-FDD-Information, DCH-InformationResponse, DCH-ID. FDD-DCHs-to-Modify, TDD-DCHs-to-Modify, DCH-TDD-Information, DedicatedChannelsCapacityConsumptionLaw, DedicatedMeasurementType, DedicatedMeasurementValue, DedicatedMeasurementValueInformation, DiversityControlField, DiversityMode, DL-DPCH-SlotFormat, DL-or-Global-CapacityCredit, DL-Power, DLPowerAveragingWindowSize, DL-ScramblingCode, DL-TimeslotISCP, DL-Timeslot-Information, DL-TimeslotLCR-Information, DL-TimeslotISCPInfo, DL-TimeslotISCPInfoLCR, DL-TPC-Pattern01Count, DPC-Mode, DPCH-ID, DSCH-ID. DSCH-FDD-Common-Information, DSCH-FDD-Information, DSCH-InformationResponse, DSCH-TDD-Information, DwPCH-Power, End-Of-Audit-Sequence-Indicator,

EnhancedDSCHPC, EnhancedDSCHPCCounter, EnhancedDSCHPCIndicator. EnhancedDSCHPCWnd, EnhancedDSCHPowerOffset, FDD-DL-ChannelisationCodeNumber, FDD-DL-CodeInformation, FDD-S-CCPCH-Offset, FDD-TPC-DownlinkStepSize, FirstRLS-Indicator, FNReportingIndicator, FPACH-Power, FrameAdjustmentValue, FrameHandlingPriority, FrameOffset, IB-OC-ID, IB-SG-DATA, IB-SG-POS, IB-SG-REP, IB-Type, IndicationType, InformationExchangeID, InformationReportCharacteristics, InformationType, InnerLoopDLPCStatus, IPDL-FDD-Parameters, IPDL-TDD-Parameters, IPDL-Indicator, LimitedPowerIncrease, Local-Cell-ID, MaximumDL-PowerCapability, MaximumTransmissionPower, Max-Number-of-PCPCHes, MaxNrOfUL-DPDCHs, MaxPRACH-MidambleShifts, MeasurementFilterCoefficient, MeasurementID, MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftLCR, MinimumDL-PowerCapability, MinSpreadingFactor, MinUL-ChannelisationCodeLength, MultiplexingPosition, NEOT, NCyclesPerSFNperiod, NFmax, NRepetitionsPerCyclePeriod, N-INSYNC-IND, N-OUTSYNC-IND, NeighbouringCellMeasurementInformation, NeighbouringFDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation,

NodeB-CommunicationContextID, NStartMessage, PagingIndicatorLength, PayloadCRC-PresenceIndicator, PCCPCH-Power, PCP-Length, PDSCH-CodeMapping, PDSCHSet-ID, PDSCH-ID, PICH-Mode, PICH-Power, PowerAdjustmentType, PowerOffset, PowerRaiseLimit, PRACH-Midamble, PreambleSignatures, PreambleThreshold, PredictedSFNSFNDeviationLimit, PredictedTUTRANGPSDeviationLimit, PrimaryCPICH-Power, PrimaryScramblingCode, PropagationDelay, SCH-TimeSlot, PunctureLimit, PUSCHSet-ID, PUSCH-ID, OE-Selector, RACH-SlotFormat, RACH-SubChannelNumbers, ReferenceClockAvailability, ReferenceSFNoffset, RepetitionLength, RepetitionPeriod, ReportCharacteristics, RequestedDataValue, RequestedDataValueInformation, ResourceOperationalState, RL-Set-ID, RL-ID, Received-total-wide-band-power-Value, AdjustmentPeriod, ScaledAdjustmentRatio, MaxAdjustmentStep, RNC-ID, ScramblingCodeNumber, SecondaryCCPCH-SlotFormat, Segment-Type, S-FieldLength, SFN, SFNSFNChangeLimit, SFNSFNDriftRate, SFNSFNDriftRateQuality, SFNSFNQuality,

ShutdownTimer, SIB-Originator, SpecialBurstScheduling, SSDT-Cell-Identity, SSDT-CellID-Length, SSDT-Indication, Start-Of-Audit-Sequence-Indicator, STTD-Indicator, SSDT-SupportIndicator, SyncCase, SYNCDlCodeId, SyncFrameNumber, SynchronisationReportCharacteristics, SynchronisationReportType, T-Cell, T-RLFAILURE, TDD-ChannelisationCode, TDD-ChannelisationCodeLCR, TDD-DL-Code-LCR-Information, TDD-DPCHOffset, TDD-TPC-DownlinkStepSize, TDD-PhysicalChannelOffset, TDD-UL-Code-LCR-Information, TFCI2-BearerInformationResponse, TFCI-Coding, TFCI-Presence, TFCI-SignallingMode, TFCS, TimeSlot, TimeSlotLCR, TimeSlotDirection, TimeSlotStatus, TimingAdjustmentValue, TimingAdvanceApplied, TOAWE, TOAWS, TransmissionDiversityApplied, TransmitDiversityIndicator, TransmissionGapPatternSequenceCodeInformation, Transmission-Gap-Pattern-Sequence-Information, TransportBearerRequestIndicator, TransportFormatSet, TransportLayerAddress, TSTD-Indicator, UARFCN, TUTRANGPS, TUTRANGPSChangeLimit, TUTRANGPSDriftRate, TUTRANGPSDriftRateOuality, TUTRANGPSQuality, UARFCN, UC-Id,

USCH-Information, USCH-InformationResponse, UL-CapacityCredit. UL-DPCCH-SlotFormat. UL-STR. UL-FP-Mode, UL-PhysCH-SF-Variation, UL-ScramblingCode, UL-Timeslot-Information, UL-TimeslotLCR-Information, UL-TimeSlot-ISCP-Info, UL-TimeSlot-ISCP-LCR-Info, UL-TimeslotISCP-Value, UL-TimeslotISCP-Value-IncrDecrThres. USCH-ID FROM NBAP-IES PrivateIE-Container{}, ProtocolExtensionContainer{}, ProtocollE-Container{}, ProtocolIE-Single-Container{}, ProtocolIE-ContainerList{}, NBAP-PRIVATE-IES, NBAP-PROTOCOL-IES. NBAP-PROTOCOL-EXTENSION FROM NBAP-Containers id-Active-Pattern-Sequence-Information, id-AdjustmentRatio, id-AICH-Information, id-AICH-ParametersListIE-CTCH-ReconfRqstFDD, id-AP-AICH-Information, id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD, id-BCH-Information, id-BCCH-ModificationTime. id-BlockingPriorityIndicator, id-Cause. id-CauseLevel-PSCH-ReconfFailureTDD, id-CauseLevel-RL-AdditionFailureFDD, id-CauseLevel-RL-AdditionFailureTDD, id-CauseLevel-RL-ReconfFailure, id-CauseLevel-RL-SetupFailureFDD, id-CauseLevel-RL-SetupFailureTDD, id-CauseLevel-SyncAdjustmntFailureTDD, id-CCP-InformationItem-AuditRsp, id-CCP-InformationList-AuditRsp, id-CCP-InformationItem-ResourceStatusInd. id-CCTrCH-InformationItem-RL-FailureInd, id-CCTrCH-InformationItem-RL-RestoreInd, id-CCTrCH-Initial-DL-Power-RL-AdditionRqstTDD, id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD, id-CCTrCH-Initial-DL-Power-RL-SetupRqstTDD, id-CDCA-ICH-Information,

id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD, id-CellAdjustmentInfo-SyncAdjustmntRgstTDD, id-CellAdjustmentInfoItem-SyncAdjustmentRgstTDD. id-Cell-InformationItem-AuditRsp. id-Cell-InformationItem-ResourceStatusInd, id-Cell-InformationList-AuditRsp, id-CellParameterID, id-CellSyncBurstTransInit-CellSyncInitiationRgstTDD, id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD, id-cellSyncBurstRepetitionPeriod, id-CellSyncBurstTransReconfiguration-CellSyncReconfRgstTDD, id-CellSyncBurstTransReconfInfo-CellSyncReconfRgstTDD, id-CellSyncBurstMeasReconfiguration-CellSyncReconfRgstTDD, id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD, id-CellSyncBurstInfoList-CellSyncReconfRqstTDD, id-CellSyncInfo-CellSyncReprtTDD, id-CFN, id-CFNReportingIndicator, id-C-ID, id-Closed-Loop-Timing-Adjustment-Mode, id-CommonMeasurementAccuracy, id-CommonMeasurementObjectType-CM-Rprt, id-CommonMeasurementObjectType-CM-Rqst, id-CommonMeasurementObjectType-CM-Rsp, id-CommonMeasurementType, id-CommonPhysicalChannelID, id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD, id-CommonPhysicalChannelType-CTCH-SetupRgstFDD, id-CommonPhysicalChannelType-CTCH-SetupRqstTDD, id-CommunicationContextInfoItem-Reset, id-CommunicationControlPortID, id-CommunicationControlPortInfoItem-Reset, id-Compressed-Mode-Deactivation-Flag, id-ConfigurationGenerationID, id-CPCH-Information. id-CPCH-Parameters-CTCH-SetupRsp, id-CPCH-ParametersListIE-CTCH-ReconfRgstFDD, id-CRNC-CommunicationContextID, id-CriticalityDiagnostics, id-CSBTransmissionID, id-CSBMeasurementID, id-DCHs-to-Add-FDD, id-DCHs-to-Add-TDD, id-DCH-AddList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfPrepFDD, id-DCH-DeleteList-RL-ReconfPrepTDD, id-DCH-DeleteList-RL-ReconfRqstFDD, id-DCH-DeleteList-RL-ReconfRqstTDD, id-DCH-FDD-Information, id-DCH-TDD-Information, id-DCH-InformationResponse, id-FDD-DCHs-to-Modify, id-TDD-DCHs-to-Modify,

id-DedicatedMeasurementObjectType-DM-Rprt, id-DedicatedMeasurementObjectType-DM-Rqst, id-DedicatedMeasurementObjectType-DM-Rsp. id-DedicatedMeasurementType, id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD, id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD, id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD, id-DL-CCTrCH-InformationList-RL-SetupRqstTDD, id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationItem-RL-AdditionRgstTDD, id-DL-DPCH-InformationList-RL-SetupRgstTDD, id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD, id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD, id-DL-DPCH-Information-RL-ReconfPrepFDD, id-DL-DPCH-Information-RL-ReconfRqstFDD, id-DL-DPCH-Information-RL-SetupRqstFDD, id-DL-ReferencePowerInformationItem-DL-PC-Rost. id-DLReferencePower. id-DLReferencePowerList-DL-PC-Rqst, id-DL-TPC-Pattern01Count, id-DPC-Mode. id-DPCHConstant, id-DSCH-AddItem-RL-ReconfPrepFDD, id-DSCHs-to-Add-FDD, id-DSCH-DeleteItem-RL-ReconfPrepFDD, id-DSCH-DeleteList-RL-ReconfPrepFDD, id-DSCHs-to-Add-TDD, id-DSCH-Information-DeleteList-RL-ReconfPrepTDD, id-DSCH-Information-ModifyList-RL-ReconfPrepTDD, id-DSCH-InformationResponse, id-DSCH-FDD-Information, id-DSCH-FDD-Common-Information, id-DSCH-TDD-Information, id-DSCH-ModifyItem-RL-ReconfPrepFDD, id-DSCH-ModifyList-RL-ReconfPrepFDD, id-End-Of-Audit-Sequence-Indicator, id-EnhancedDSCHPC, id-EnhancedDSCHPCIndicator, id-FACH-Information, id-FACH-ParametersList-CTCH-ReconfRqstTDD, id-FACH-ParametersList-CTCH-SetupRsp, id-FACH-ParametersListIE-CTCH-ReconfRqstFDD, id-FACH-ParametersListIE-CTCH-SetupRqstFDD, id-FACH-ParametersListIE-CTCH-SetupRqstTDD, id-IndicationType-ResourceStatusInd,

id-InformationExchangeID,

id-InformationExchangeObjectType-InfEx-Rgst, id-InformationExchangeObjectType-InfEx-Rsp, id-InformationExchangeObjectType-InfEx-Rprt. id-InformationReportCharacteristics, id-InformationType, id-InitDL-Power, id-InnerLoopDLPCStatus, id-IntStdPhCellSvncInfoItem-CellSvncReprtTDD, id-IPDLParameter-Information-Cell-ReconfRqstFDD, id-IPDLParameter-Information-Cell-SetupRqstFDD, id-IPDLParameter-Information-Cell-ReconfRgstTDD, id-IPDLParameter-Information-Cell-SetupRqstTDD, id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD, id-Limited-power-increase-information-Cell-SetupRgstFDD. id-Local-Cell-ID. id-Local-Cell-Group-InformationItem-AuditRsp, id-Local-Cell-Group-InformationItem-ResourceStatusInd, id-Local-Cell-Group-InformationItem2-ResourceStatusInd, id-Local-Cell-Group-InformationList-AuditRsp. id-Local-Cell-InformationItem-AuditRsp, id-Local-Cell-InformationItem-ResourceStatusInd, id-Local-Cell-InformationItem2-ResourceStatusInd, id-Local-Cell-InformationList-AuditRsp, id-AdjustmentPeriod, id-MaxAdjustmentStep, id-MaximumTransmissionPower. id-MeasurementFilterCoefficient, id-MeasurementID, id-MIB-SB-SIB-InformationList-SystemInfoUpdateRgst, id-NCyclesPerSFNperiod, id-NeighbouringCellMeasurementInformation, id-NodeB-CommunicationContextID, id-NRepetitionsPerCyclePeriod, id-P-CCPCH-Information, id-P-CPICH-Information. id-P-SCH-Information, id-PCCPCH-Information-Cell-ReconfRqstTDD, id-PCCPCH-Information-Cell-SetupRgstTDD, id-PCH-Parameters-CTCH-ReconfRqstTDD, id-PCH-Parameters-CTCH-SetupRsp, id-PCH-ParametersItem-CTCH-ReconfRqstFDD, id-PCH-ParametersItem-CTCH-SetupRqstFDD, id-PCH-ParametersItem-CTCH-SetupRqstTDD, id-PCH-Information, id-PCPCH-Information, id-PICH-ParametersItem-CTCH-ReconfRqstFDD, id-PDSCH-Information-AddListIE-PSCH-ReconfRqst, id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst, id-PDSCHSets-AddList-PSCH-ReconfRqst, id-PDSCHSets-DeleteList-PSCH-ReconfRqst, id-PDSCHSets-ModifyList-PSCH-ReconfRqst, id-PICH-Information, id-PICH-Parameters-CTCH-ReconfRqstTDD,

id-PICH-ParametersItem-CTCH-SetupRgstTDD, id-PowerAdjustmentType, id-PRACH-Information. id-PRACHConstant. id-PRACH-ParametersItem-CTCH-SetupRgstTDD, id-PRACH-ParametersListIE-CTCH-ReconfRostFDD, id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD, id-PrimaryCCPCH-Information-Cell-SetupRgstFDD, id-PrimaryCPICH-Information-Cell-ReconfRqstFDD, id-PrimaryCPICH-Information-Cell-SetupRqstFDD, id-PrimarySCH-Information-Cell-ReconfRqstFDD, id-PrimarySCH-Information-Cell-SetupRgstFDD, id-PrimaryScramblingCode, id-SCH-Information-Cell-ReconfRgstTDD, id-SCH-Information-Cell-SetupRgstTDD, id-PUSCH-Information-AddListIE-PSCH-ReconfRqst, id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst, id-PUSCHConstant, id-PUSCHSets-AddList-PSCH-ReconfRgst, id-PUSCHSets-DeleteList-PSCH-ReconfRqst, id-PUSCHSets-ModifyList-PSCH-ReconfRqst, id-RACH-Information, id-RACH-Parameters-CTCH-SetupRsp, id-RACH-ParametersItem-CTCH-SetupRgstFDD, id-RACH-ParameterItem-CTCH-SetupRgstTDD, id-ReferenceClockAvailability, id-ReferenceSFNoffset, id-ReportCharacteristics, id-Reporting-Object-RL-FailureInd, id-Reporting-Object-RL-RestoreInd, id-ResetIndicator, id-RL-InformationItem-DM-Rprt, id-RL-InformationItem-DM-Rqst, id-RL-InformationItem-DM-Rsp, id-RL-InformationItem-RL-AdditionRgstFDD, id-RL-informationItem-RL-DeletionRgst, id-RL-InformationItem-RL-FailureInd, id-RL-InformationItem-RL-PreemptRequiredInd, id-RL-InformationItem-RL-ReconfPrepFDD, id-RL-InformationItem-RL-ReconfRgstFDD, id-RL-InformationItem-RL-RestoreInd, id-RL-InformationItem-RL-SetupRgstFDD, id-RL-InformationList-RL-AdditionRqstFDD, id-RL-informationList-RL-DeletionRqst, id-RL-InformationList-RL-PreemptRequiredInd, id-RL-InformationList-RL-ReconfPrepFDD, id-RL-InformationList-RL-ReconfRgstFDD, id-RL-InformationList-RL-SetupRqstFDD, id-RL-InformationResponseItem-RL-AdditionRspFDD, id-RL-InformationResponseItem-RL-ReconfReady, id-RL-InformationResponseItem-RL-ReconfRsp, id-RL-InformationResponseItem-RL-SetupRspFDD, id-RL-InformationResponseList-RL-AdditionRspFDD,

id-RL-InformationResponseList-RL-ReconfReady, id-RL-InformationResponseList-RL-ReconfRsp, id-RL-InformationResponseList-RL-SetupRspFDD. id-RL-InformationResponse-RL-AdditionRspTDD, id-RL-InformationResponse-RL-SetupRspTDD, id-RL-Information-RL-AdditionRgstTDD, id-RL-Information-RL-ReconfRqstTDD, id-RL-Information-RL-ReconfPrepTDD, id-RL-Information-RL-SetupRqstTDD, id-RL-ReconfigurationFailureItem-RL-ReconfFailure, id-RL-Set-InformationItem-DM-Rprt, id-RL-Set-InformationItem-DM-Rsp, id-RL-Set-InformationItem-RL-FailureInd. id-RL-Set-InformationItem-RL-RestoreInd. id-S-CCPCH-Information. id-S-CPICH-Information. id-SCH-Information, id-S-SCH-Information, id-Secondary-CCPCHListIE-CTCH-ReconfRgstTDD, id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD, id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD, id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD, id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD, id-SecondaryCPICH-InformationList-Cell-ReconfRgstFDD. id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD, id-SecondarySCH-Information-Cell-ReconfRgstFDD, id-SecondarySCH-Information-Cell-SetupRgstFDD, id-SegmentInformationListIE-SystemInfoUpdate, id-SFNReportingIndicator, id-ShutdownTimer, id-SSDT-CellIDforEDSCHPC, id-Start-Of-Audit-Sequence-Indicator, id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD, id-Successful-RL-InformationRespItem-RL-SetupFailureFDD, id-Synchronisation-Configuration-Cell-ReconfRqst, id-Synchronisation-Configuration-Cell-SetupRqst, id-SyncCase, id-SyncCaseIndicatorItem-Cell-SetupRgstTDD-PSCH, id-SyncFrameNumber, id-SynchronisationReportType, id-SynchronisationReportCharacteristics, id-SyncReportType-CellSyncReprtTDD, id-T-Cell,

- id-TFCI2-Bearer-Information-RL-SetupRgstFDD,
- id-TFCI2-BearerInformationResponse,
- id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD,
- id-Transmission-Gap-Pattern-Sequence-Information,
- id-TimeSlotConfigurationList-Cell-ReconfRgstTDD,
- id-TimeSlotConfigurationList-Cell-SetupRgstTDD,
- id-timeslotInfo-CellSyncInitiationRqstTDD,

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id-TimeslotISCPInfo,
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id-SFN,

id-TimingAdvanceApplied,

id-TransmissionDiversityApplied, id-UARFCNforNt. id-UARFCNforNd. id-UARFCNforNu. id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRgstTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationDeleteList-RL-ReconfRgstTDD, id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD, id-UL-CCTrCH-InformationList-RL-AdditionRgstTDD, id-UL-CCTrCH-InformationList-RL-SetupRqstTDD, id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD, id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD, id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationItem-RL-AdditionRgstTDD, id-UL-DPCH-InformationList-RL-SetupRgstTDD, id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD, id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD, id-UL-DPCH-Information-RL-ReconfPrepFDD, id-UL-DPCH-Information-RL-ReconfRqstFDD, id-UL-DPCH-Information-RL-SetupRqstFDD, id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD. id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD, id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD, id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD, id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD, id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD, id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD, id-USCH-Information-Add, id-USCH-Information-DeleteList-RL-ReconfPrepTDD, id-USCH-Information-ModifyList-RL-ReconfPrepTDD, id-USCH-InformationResponse, id-USCH-Information. id-DL-DPCH-LCR-Information-RL-SetupRgstTDD, id-DL-DPCH-LCR-InformationList-RL-SetupRgstTDD, id-DwPCH-LCR-Information, id-DwPCH-LCR-Information-AuditRsp, id-DwPCH-LCR-InformationList-AuditRsp, id-DwPCH-LCR-Information-Cell-SetupRqstTDD, id-DwPCH-LCR-Information-Cell-ReconfRgstTDD, id-DwPCH-LCR-Information-ResourceStatusInd, id-maxFACH-Power-LCR-CTCH-SetupRqstTDD, id-maxFACH-Power-LCR-CTCH-ReconfRgstTDD, id-FPACH-LCR-Information, id-FPACH-LCR-Information-AuditRsp. id-FPACH-LCR-InformationList-AuditRsp, id-FPACH-LCR-InformationList-ResourceStatusInd, id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD, id-FPACH-LCR-ParametersItem-CTCH-SetupRgstTDD, id-FPACH-LCR-Parameters-CTCH-ReconfRgstTDD,

id-PCCPCH-LCR-Information-Cell-SetupRqstTDD,

id-PCH-Power-LCR-CTCH-SetupRqstTDD, id-PCH-Power-LCR-CTCH-ReconfRastTDD. id-PICH-LCR-Parameters-CTCH-SetupRgstTDD. id-PICH-LCR-ParametersItem-CTCH-SetupRgstTDD, id-PRACH-LCR-ParametersList-CTCH-SetupRgstTDD, id-PRACH-LCR-ParametersListIE-CTCH-SetupRgstTDD, id-RL-InformationResponse-LCR-RL-SetupRspTDD, id-Secondary-CCPCH-LCR-parameterListIE-CTCH-SetupRgstTDD, id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRgstTDD, id-TimeSlot, id-TimeSlotConfigurationList-LCR-Cell-ReconfRgstTDD, id-TimeSlotConfigurationList-LCR-Cell-SetupRgstTDD, id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD, id-TimeSlotLCR-CM-Rast. id-UL-DPCH-LCR-Information-RL-SetupRgstTDD, id-UL-DPCH-LCR-InformationList-RL-SetupRgstTDD, id-DL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD, id-UL-DPCH-InformationItem-LCR-RL-AdditionRgstTDD, id-TimeslotISCP-InformationList-LCR-RL-AdditionRgstTDD, id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD, id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD, id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD, id-DL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD, id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD. id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD, id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD, id-UL-DPCH-LCR-InformationModify-AddList, id-UL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD, id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD, id-UL-SIRTarget, id-PDSCH-AddInformation-LCR-PSCH-ReconfRgst, id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst, id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst, id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst, id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst, id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst, id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst, id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst, id-PUSCH-Info-DM-Rqst, id-PUSCH-Info-DM-Rsp, id-PUSCH-Info-DM-Rprt, id-RL-InformationResponse-LCR-RL-AdditionRspTDD, maxNrOfCCTrCHs, maxNrOfCellSvncBursts, maxNrOfCodes, maxNrOfCPCHs. maxNrOfDCHs, maxNrOfDLTSs,

maxNrOfDLTSLCRs, maxNrOfDPCHs, maxNrOfDSCHs, maxNrOfFACHs,

maxNrOfRLs, maxNrOfRLs-1, maxNrOfRLs-2, maxNrOfRLSets, maxNrOfPCPCHs, maxNrOfPDSCHs, maxNrOfPUSCHs, maxNrOfPRACHLCRs, maxNrOfPDSCHSets, maxNrOfPUSCHSets, maxNrOfReceptsPerSyncFrame, maxNrOfSCCPCHs, maxNrOfSCCPCHLCRs, maxNrOfULTSs, maxNrOfULTSLCRs, maxNrOfUSCHs, maxAPSigNum, maxCPCHCell, maxFACHCell, maxFPACHCell, maxNoofLen, maxRACHCell, maxPCPCHCell, maxPRACHCell, maxSCCPCHCell, maxSCPICHCell, maxCellinNodeB, maxCCPinNodeB, maxCommunicationContext, maxLocalCellinNodeB, maxNrOfSlotFormatsPRACH, maxNrOfCellSyncBursts, maxNrOfReceptsPerSyncFrame, maxIB, maxIBSEG

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-- RADIO LINK SETUP REQUEST TDD RadioLinkSetupReguestTDD ::= SEOUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupRequestTDD-IEs}}, ProtocolExtensionContainer {{RadioLinkSetupRequestTDD-Extensions}} protocolExtensions OPTIONAL, . . . ļ RadioLinkSetupRequestTDD-IEs NBAP-PROTOCOL-IES ::= { id-CRNC-CommunicationContextID CRITICALITY reject CRNC-CommunicationContextID { ID TYPE PRESENCE mandatory }| id-UL-CCTrCH-InformationList-RL-SetupRgstTDD { ID CRITICALITY notify TYPE UL-CCTrCH-InformationList-RL-SetupRgstTDD PRESENCE optional }| { ID id-DL-CCTrCH-InformationList-RL-SetupRgstTDD CRITICALITY notify TYPE DL-CCTrCH-InformationList-RL-SetupRqstTDD PRESENCE optional }| TD id-DCH-TDD-Information CRITICALITY reject TYPE DCH-TDD-Information PRESENCE optional } | id-DSCH-TDD-Information TYPE DSCH-TDD-Information PRESENCE optional } TD CRITICALITY reject PRESENCE optional } TD id-USCH-Information CRITICALITY reject TYPE USCH-Information ID id-RL-Information-RL-SetupRgstTDD CRITICALITY reject TYPE RL-Information-RL-SetupRqstTDD PRESENCE mandatory }, . . . RadioLinkSetupRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . UL-CCTrCH-InformationList-RL-SetupRqstTDD ::= SEQUENCE (SIZE(1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container{{ UL-CCTrCH-InformationItemIE-RL-SetupRqstTDD }} UL-CCTrCH-InformationItemIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= { { ID id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD CRITICALITY TYPE UL-CCTrCH-InformationItem-RLnotify mandatory } SetupRqstTDD PRESENCE UL-CCTrCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE { CCTrCH-ID CCTrCH-ID, tFCS TFCS, TFCI-Coding, tFCI-Coding punctureLimit PunctureLimit, uL-DPCH-Information UL-DPCH-Information-RL-SetupRqstTDD OPTIONAL, -- For 3.84Mcps TDD only iE-Extensions ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } } OPTIONAL. . . . UL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { ID id-UL-DPCH-LCR-Information-RL-SetupRqstTDD CRITICALITY notify EXTENSION UL-DPCH-LCR-Information-RL-SetupRqstTDD PRESENCE optional | -- For 1.28Mcps TDD only
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                                                                          376
    { ID id-UL-SIRTarget
                                CRITICALITY reject
                                                         EXTENSION
                                                                         UL-SIR
                                                                                     PRESENCE optional
                                                                                                                     },
    -- This IE shall be mandatory for 1.28Mcps TDD, not applicable for 3.84Mcps TDD.
    . . .
UL-DPCH-Information-RL-SetupRgstTDD ::= Protocolle-Single-Container{{ UL-DPCH-InformationIE-RL-SetupRgstTDD }}
UL-DPCH-InformationIE-RL-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationList-RL-SetupRqstTDD
                                                        CRITICALITY notify TYPE UL-DPCH-InformationItem-RL-SetupRqstTDD
                                                                                                                              PRESENCE mandatory }
UL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    uL-Timeslot-Information
                                            UL-Timeslot-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-SetupRgstTDD-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
UL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-LCR-Information-RL-SetupRqstTDD ::= Protocolle-Single-Container{{ UL-DPCH-LCR-InformationIE-RL-SetupRqstTDD }}
UL-DPCH-LCR-InformationIE-RL-SetupRgstTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-LCR-InformationList-RL-SetupRqstTDD
                                                            CRITICALITY notify TYPE UL-DPCH-LCR-InformationItem-RL-SetupRqstTDD
                                                                                                                                       PRESENCE
optional
          }
}
UL-DPCH-LCR-InformationItem-RL-SetupRqstTDD ::= SEQUENCE
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    uL-TimeslotLCR-Information
                                            UL-TimeslotLCR-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs } }
                                                                                                                                       OPTIONAL,
UL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCH-InformationList-RL-SetupRgstTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF ProtocolIE-Single-Container{{ DL-CCTrCH-InformationItemIE-RL-
SetupRqstTDD } }
DL-CCTrCH-InformationItemIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
           id-DL-CCTrCH-InformationItem-RL-SetupRgstTDD
                                                                                                                     TYPE DL-CCTrCH-InformationItem-
    { ID
                                                                     CRITICALITY
                                                                                     notify
RL-SetupRqstTDD
                    PRESENCE
                                mandatory }
```

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

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                                                                          377
    cCTrCH-ID
                                            CCTrCH-ID,
    tFCS
                                            TFCS,
    tFCI-Coding
                                            TFCI-Coding.
    punctureLimit
                                            PunctureLimit,
                                            TDD-TPC-DownlinkStepSize,
    tdd-TPC-DownlinkStepSize
                                                                                     OPTIONAL,
    cCTrCH-TPCList
                                            CCTrCH-TPCList-RL-SetupRgstTDD
    dL-DPCH-Information
                                            DL-DPCH-Information-RL-SetupRqstTDD
                                                                                     OPTIONAL,
                                                                                                -- For 3.84Mcps TDD only
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-SetupRqstTDD-ExtIEs } }
                                                                                                                                    OPTIONAL.
    . . .
DL-CCTrCH-InformationItem-RL-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
     ID id-DL-DPCH-LCR-Information-RL-SetupRqstTDD CRITICALITY notify
                                                                             EXTENSION DL-DPCH-LCR-Information-RL-SetupRqstTDD
                                                                                                                                    PRESENCE optional
    } -- For 1.28Mcps TDD only
    ID id-CCTrCH-Initial-DL-Power-RL-SetupRgstTDD
                                                        CRITICALITY ignore
                                                                                                         PRESENCE optional },
                                                                                 EXTENSION DL-Power
    . . .
CCTrCH-TPCList-RL-SetupRqstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCItem-RL-SetupRqstTDD
CCTrCH-TPCItem-RL-SetupRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                            CCTrCH-ID,
    iE-Extensions
                                            ProtocolExtensionContainer { { CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs} }
                                                                                                                        OPTIONAL,
    . . .
CCTrCH-TPCItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-Information-RL-SetupRqstTDD ::= Protocolle-Single-Container{{ DL-DPCH-InformationIE-RL-SetupRqstTDD }}
DL-DPCH-InformationIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
                                                        CRITICALITY notify TYPE DL-DPCH-InformationItem-RL-SetupRqstTDD
    { ID id-DL-DPCH-InformationList-RL-SetupRqstTDD
                                                                                                                              PRESENCE mandatory }
DL-DPCH-InformationItem-RL-SetupRqstTDD ::= SEQUENCE {
                                            RepetitionPeriod,
    repetitionPeriod
                                            RepetitionLength,
    repetitionLength
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    dL-Timeslot-Information
                                        DL-Timeslot-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs } }
                                                                                                                                 OPTIONAL,
    . . .
DL-DPCH-InformationItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DL-DPCH-LCR-Information-RL-SetupRqstTDD ::= Protocolle-Single-Container{{ DL-DPCH-LCR-InformationIE-RL-SetupRqstTDD }}
DL-DPCH-LCR-InformationIE-RL-SetupRqstTDD NBAP-PROTOCOL-IES ::= {
```

```
{ ID id-DL-DPCH-LCR-InformationList-RL-SetupRqstTDD
                                                             CRITICALITY notify TYPE DL-DPCH-LCR-InformationItem-RL-SetupRqstTDD
                                                                                                                                       PRESENCE
mandatory }
DL-DPCH-LCR-InformationItem-RL-SetupRqstTDD ::= SEQUENCE
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    dL-TimeslotLCR-Information
                                            DL-TimeslotLCR-Information,
                                            TSTD-Indicator,
    tstdIndicator
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-DPCH-LCR-InformationItem-RL-SetupRqstTDD-ExtIEs } }
                                                                                                                                       OPTIONAL,
    . . .
DL-DPCH-LCR-InformationItem-RL-SetupRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
RL-Information-RL-SetupRqstTDD ::= SEQUENCE
    rL-ID
                                            RL-ID,
    C-TD
                                            C-ID,
    frameOffset
                                            FrameOffset,
                                            SpecialBurstScheduling,
    specialBurstScheduling
    initialDL-transmissionPower
                                            DL-Power.
    maximumDL-power
                                            DL-Power,
    minimumDL-power
                                            DL-Power,
    dL-TimeSlotISCPInfo
                                            DL-TimeslotISCPInfo OPTIONAL, -- For 3.84Mcps TDD only
    iE-Extensions
                                            ProtocolExtensionContainer { { RL-Information-RL-SetupRqstTDD-ExtIEs } }
                                                                                                                        OPTIONAL,
    . . .
RL-Information-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD CRITICALITY reject
                                                                                 EXTENSION TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD
                                                                                                                                          PRESENCE
          }, -- For 1.28Mcps TDD only
optional
    . . .
TimeslotISCP-LCR-InfoList-RL-SetupRgstTDD ::= SEQUENCE {
    dL-TimeslotISCP-LCR-Info
                                DL-TimeslotISCPInfoLCR,
   iE-Extensions
                                ProtocolExtensionContainer { {TimeslotISCP-LCR-InfoItem-RL-SetupRqstTDD-ExtIEs } }
                                                                                                                           OPTIONAL,
    . . .
TimeslotISCP-LCR-InfoItem-RL-SetupRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

3GPP TS 25.433 Version 4.3.0 387 -- RADIO LINK ADDITION REQUEST TOD _ _ ******* RadioLinkAdditionRequestTDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkAdditionRequestTDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkAdditionRequestTDD-Extensions}} OPTIONAL, } RadioLinkAdditionRequestTDD-IEs NBAP-PROTOCOL-IES ::= { { ID id-NodeB-CommunicationContextID CRITICALITY reject TYPE NodeB-CommunicationContextID PRESENCE mandatory }| { ID id-UL-CCTrCH-InformationList-RL-AdditionRgstTDD CRITICALITY reject TYPE UL-CCTrCH-InformationList-RL-AdditionRgstTDD PRESENCE optional }| { ID id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD CRITICALITY reject TYPE DL-CCTrCH-InformationList-RL-AdditionRgstTDD PRESENCE optional }| { ID id-RL-Information-RL-AdditionRqstTDD CRITICALITY reject TYPE RL-Information-RL-AdditionRqstTDD PRESENCE mandatory }, . . . } RadioLinkAdditionRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= { . . . } UL-CCTrCH-InformationList-RL-AdditionRgstTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationItem-RL-AdditionRgstTDD UL-CCTrCH-InformationItem-RL-AdditionRqstTDD ::= SEOUENCE { cCTrCH-ID CCTrCH-ID, uL-DPCH-Information UL-DPCH-InformationList-RL-AdditionRqstTDD OPTIONAL, ProtocolExtensionContainer { { UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs } } OPTIONAL, iE-Extensions . . . UL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD CRITICALITY notify EXTENSION UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD PRESENCE optional } -- For 1.28cps TDD only UL-DPCH-InformationList-RL-AdditionRqstTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationItemIE-RL-AdditionRqstTDD }} UL-DPCH-InformationItemIE-RL-AdditionRqstTDD NBAP-PROTOCOL-IES ::= { { ID id-UL-DPCH-InformationItem-RL-AdditionRqstTDD CRITICALITY notify TYPE UL-DPCH-InformationItem-RL-AdditionRqstTDD PRESENCE optional} -- For 3.84Mcps TDD only UL-DPCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE { repetitionPeriod RepetitionPeriod, repetitionLength RepetitionLength,

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                                                                          388
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    uL-Timeslot-Information
                                        UL-Timeslot-Information,
    iE-Extensions
                                                ProtocolExtensionContainer { { UL-DPCH-InformationItem-RL-AdditionRgstTDD-ExtIEs } }
                                                                                                                                          OPTIONAL.
    . . .
UL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCH-InformationList-RL-AdditionRgstTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationItem-RL-AdditionRgstTDD
DL-CCTrCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    cCTrCH-ID
                                                CCTrCH-ID,
    dL-DPCH-Information
                                                DL-DPCH-InformationList-RL-AdditionRqstTDD
                                                                                                 OPTIONAL.
    iE-Extensions
                                                ProtocolExtensionContainer { { DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs } }
                                                                                                                                          OPTIONAL.
    . . .
DL-CCTrCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
           id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD
    { ID
                                                                         CRITICALITY
                                                                                         notify
                                                                                                                        EXTENSION DL-DPCH-
InformationItem-LCR-RL-AdditionRqstTDD
                                                PRESENCE
                                                            optional }
                                                                             -- For 1.28Mcps TDD only
    { ID id-CCTrCH-Initial-DL-Power-RL-AdditionRgstTDD
                                                            CRITICALITY ignore
                                                                                     EXTENSION DL-Power
                                                                                                            PRESENCE optional }
DL-DPCH-InformationList-RL-AdditionRgstTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationItemIE-RL-AdditionRgstTDD }}
DL-DPCH-InformationItemIE-RL-AdditionRqstTDD NBAP-PROTOCOL-IES ::= {
    { ID
          id-DL-DPCH-InformationItem-RL-AdditionRqstTDD
                                                                     CRITICALITY
                                                                                     notify
                                                                                                                     TYPE DL-DPCH-InformationItem-RL-
AdditionRgstTDD
                        PRESENCE
                                    mandatory} -- For 3.84Mcps TDD only
DL-DPCH-InformationItem-RL-AdditionRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    dL-Timeslot-Information
                                        DL-Timeslot-Information,
    iE-Extensions
                                                ProtocolExtensionContainer { { DL-DPCH-InformationItem-RL-AdditionRgstTDD-ExtIEs } }
                                                                                                                                             OPTIONAL,
    . . .
DL-DPCH-InformationItem-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
RL-Information-RL-AdditionRqstTDD ::= SEQUENCE {
    rL-ID
                                                RL-ID,
    c-ID
                                                C-ID,
    frameOffset
                                                FrameOffset,
    diversityControlField
                                                DiversityControlField,
    initial-DL-Transmission-Power
                                                DL-Power
                                                                     OPTIONAL,
    maximumDL-Power
                                                DL-Power
                                                                     OPTIONAL,
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                                                                           389
    minimumDL-Power
                                                 DL-Power
                                                                     OPTIONAL,
    dL-TimeSlotISCPInfo
                                                 DL-TimeslotISCPInfo OPTIONAL,
                                                                                  -- For 3.84Mcps TDD only
    iE-Extensions
                                                 ProtocolExtensionContainer { { RL-information-RL-AdditionRgstTDD-ExtIEs } }
                                                                                                                                     OPTIONAL.
    . . .
 }
RL-information-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . . .
    { ID
            id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD
                                                                              CRITICALITY
                                                                                              notify
                                                                                                                            EXTENSION
                                                                                                                                        TIMESLOTISCP-
InformationList-LCR-RL-AdditionRqstTDD
                                                 PRESENCE
                                                             optional } -- For 1.28Mcps TDD only
UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                             RepetitionPeriod,
    repetitionLength
                                             RepetitionLength,
    tdd-DPCHOffset
                                             TDD-DPCHOffset,
    uL-TimeslotLCR-Information
                                             UL-TimeslotLCR-Information,
    iE-Extensions
                                             ProtocolExtensionContainer { { UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD-ExtIEs } }
                                                                                                                                           OPTIONAL,
    . . .
UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ::= SEQUENCE {
    repetitionPeriod
                                             RepetitionPeriod,
    repetitionLength
                                             RepetitionLength,
    tdd-DPCHOffset
                                             TDD-DPCHOffset,
    dL-TimeslotLCR-Information
                                             DL-TimeslotLCR-Information,
    iE-Extensions
                                             ProtocolExtensionContainer { { DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD-ExtIEs } }
                                                                                                                                           OPTIONAL,
    . . .
DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
TIMESLOTISCP-InformationList-LCR-RL-AdditionRgstTDD ::= SEQUENCE
    dL-TimeslotISCP-LCR-Info
                                DL-TimeslotISCPInfoLCR,
                                ProtocolExtensionContainer { {TimeslotISCPInfoList-LCR-RL-AdditionRqstTDD-ExtIEs} }
    iE-Extensions
                                                                                                                            OPTIONAL,
    . . .
TimeslotISCPInfoList-LCR-RL-AdditionRgstTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
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************************************				
RADIO LINK RECONFIGURATION PREPARE TDD				
************************************				
RadioLinkReconfigurationPrepareTDD ::= SEQUENCE {				
protocolIEs ProtocolIE-Container {{RadioLinkReco	onfigurationPrepa	reTDD-IEs}}		
protocolExtensions ProtocolExtensionContainer {{RadioLink	ReconfigurationP	repareTDD-E	, xtensions}}	OPTIONAL,
	5	-	,,,	
}				
RadioLinkReconfigurationPrepareTDD-IEs NBAP-PROTOCOL-IES ::= {				
{ ID id-NodeB-CommunicationContextID	CRITICALITY	reject	TYPE	NodeB-CommunicationContextID
PRESENCE mandatory }				
{ ID id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	CRITICALITY	reject		TYPE UL-CCITCH-
InformationAddlist-RL-Reconfreepidd PRESENCE Optional		modest		
InformationModifyLigt_PL_PegonfDrepTDD DEFERICE options		reject		IIPE OL-COICH-
Inconnacionmodify Dist RE Reconfreepind FRESENCE Optiona	~⊥ ∫   CRITICALITY	reject		TYPE IIICCTrCH-
InformationDeleteList-RL-ReconfPrepTDD PRESENCE optiona		reject		
{ ID id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	CRITICALITY	reject		TYPE DL-CCTrCH-
InformationAddList-RL-ReconfPrepTDD PRESENCE optional	}	- 5		
{ ID id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	CRITICALITY	reject		TYPE DL-CCTrCH-
InformationModifyList-RL-ReconfPrepTDD PRESENCE optiona	al }	-		
{ ID id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	CRITICALITY	reject		TYPE DL-CCTrCH-
InformationDeleteList-RL-ReconfPrepTDD PRESENCE optiona	al }			
{ ID id-TDD-DCHs-to-Modify CRITICALITY	7 reject	TYPE TD	D-DCHs-to-Modify	PRESENCE optional
	7			DDECENCE antional
{ ID Id-DCHS-CO-Add-IDD CRITICALITY	reject	IIPE DC.	H-IDD-IIIIOIIIIacioII	PRESENCE OPTIONAL
/ I { TD id-DCH-DeleteList-RL-ReconfPrepTDD	CRITICALITY	reject	TYPE	DCH-DeleteList-RL-ReconfPrepTDD
PRESENCE optional }	CITITOTICI	rejeee	111.0	
{ ID id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	CRITICALITY	reject	TYPE	DSCH-Information-ModifyList-RL-
ReconfPrepTDD PRESENCE optional }				
{ ID id-DSCHs-to-Add-TDD CRITICALITY reject	TYPE DSCH-TD	D-Informati	on	PRESENCE optional }
{    ID	CRITICALITY	reject	TYPE	DSCH-Information-DeleteList-RL-
ReconfPrepTDD PRESENCE optional }				
{ ID id-USCH-Information-ModifyList-RL-ReconfPrepTDD	CRITICALITY	reject	TYPE	USCH-Information-ModifyList-RL-
ReconfPrepTDD PRESENCE optional }				
{ ID id-USCH-Information-Add CRITICALITY reject	TYPE USC	H-Informati	on	PRESENCE optional }
{ ID IQ-USCH-INFORMATION-DELETELIST-KL-RECONFPRETDD	CRITICALITY	reject	TAFR	USCH-INFORMATION-DeleteList-RL-
KECONIFIEPIDD PRESENCE OPLIGHAI }   ↓ ID id-PL-Information_PL-PeronfDrenTDD	CRITTCALITY	reject	TVDF	PL_Information_PL_Peronforcomp
PRESENCE optional }	CUTITCALLI	Telecc	1156	KI-IIIOIIIacIOII-KI-KecoIIIPIepIDD
INDOMED OPCIONAL J,				

}

RadioLinkReconfigurationPrepareTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {

} ...

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UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD

```
UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                                CCTrCH-ID,
    + FCS
                                                TFCS,
    tFCI-Coding
                                                TFCI-Coding.
    punctureLimit
                                                PunctureLimit,
    ul-DPCH-InformationList
                                                UL-DPCH-InformationAddList-RL-ReconfPrepTDD OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } }
                                                                                                                                            OPTIONAL,
UL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                     EXTENSION UL-DPCH-InformationAddList-RL-ReconfPrepTDD
    PRESENCE optional }
                           -- For 3.84Mcps TDD only
    { ID id-UL-SIRTarget
                                CRITICALITY reject
                                                        EXTENSION
                                                                        UL-SIR
                                                                                     PRESENCE optional
                                                                                                                    },
    -- This IE shall be mandatory for 1.28Mcps TDD, not applicable for 3.84Mcps TDD.
    . . .
UL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD }}
UL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                    TYPE UL-DPCH-InformationAddItem-RL-ReconfPrepTDD
                                                                                                                                         PRESENCE
mandatory }
ļ
UL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    uL-Timeslot-Information
                                            UL-Timeslot-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } }
                                                                                                                                      OPTIONAL,
    . . .
UL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-LCR-InformationAddListIEs-RL-ReconfPrepTDD }}
UL-DPCH-LCR-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                        TYPE UL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD
    PRESENCE mandatory } -- For 1.28Mcps TDD only
UL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
                                            RepetitionPeriod,
    repetitionPeriod
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    uL-Timeslot-InformationLCR
                                            UL-TimeslotLCR-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } }
                                                                                                                                         OPTIONAL,
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```
. . .
UL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD
UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                                CCTrCH-ID,
    tFCS
                                                TFCS
                                                                                                                           OPTIONAL,
    tFCI-Coding
                                                TFCI-Coding
                                                                                                                           OPTIONAL,
    punctureLimit
                                                PunctureLimit
                                                                                                                           OPTIONAL.
    ul-DPCH-InformationAddList
                                                UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD
                                                                                                                        OPTIONAL,
    ul-DPCH-InformationModifyList
                                                UL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                                                                     OPTIONAL,
                                                UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD
    ul-DPCH-InformationDeleteList
                                                                                                                     OPTIONAL,
                                                ProtocolExtensionContainer { { UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    iE-Extensions
    OPTIONAL,
    . . .
UL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-UL-DPCH-LCR-InformationModify-AddList
                                                     CRITICALITY reject
                                                                             EXTENSION
                                                                                          UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD
    PRESENCE optional }
                           -- For 1.28Mcps TDD only
    { ID id-UL-SIRTarget
                                CRITICALITY reject
                                                         EXTENSION
                                                                         UL-SIR
                                                                                     PRESENCE optional
                                                                                                                     },
    -- This IE shall be applicable for 1.28Mcps TDD only.
    . . .
UL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= Protocolle-Single-Container {{ UL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD }}
UL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                             TYPE UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD
    PRESENCE mandatory }
UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
                                            RepetitionPeriod,
    repetitionPeriod
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    uL-Timeslot-Information
                                        UL-Timeslot-Information,
    iE-Extensions
                                                ProtocolExtensionContainer { { UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    . . .
UL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-LCR-InformationModify-AddListIEs-RL-
```

ReconfPrepTDD } }

```
UL-DPCH-LCR-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                                 TYPE UL-DPCH-LCR-InformationModify-AddItem-RL-
ReconfPrepTDD
                    PRESENCE mandatory }
ļ
UL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    uL-Timeslot-InformationLCR
                                            UL-TimeslotLCR-Information,
    iE-Extensions
                                                ProtocolExtensionContainer { { UL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    . . .
UL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-DPCH-InformationModify_ModifyList-RL-ReconfPrepTDD ::= ProtocollE-Single-Container {{ UL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD }}
UL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                                 TYPE UL-DPCH-InformationModify-ModifyItem-RL-
ReconfPrepTDD
                    PRESENCE mandatory }
UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod
                                                                OPTIONAL,
    repetitionLength
                                            RepetitionLength
                                                                OPTIONAL,
    tdd-DPCHOffset
                                            TDD-DPCHOffset
                                                                OPTIONAL,
                                                                             UL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD
    uL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                                                                                             OPTIONAL,
    iE-Extensions
                                                ProtocolExtensionContainer { { UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    . . .
UL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::=
    { ID id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD
                                                                                                UL-TimeslotLCR-InformationModify-ModifyList-RL-
                                                            CRITICALITY reject
                                                                                     EXTENSION
ReconfPrepTDD
                    PRESENCE optional },
                                           -- For 1.28Mcps TDD only
    . . .
UL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModify-ModifyItem-RL-
ReconfPrepTDD -- For 3.84Mcps TDD only
UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    timeSlot
                                            TimeSlot,
    midambleShiftAndBurstType
                                            MidambleShiftAndBurstType
                                                                             OPTIONAL,
    tFCI-Presence
                                            TFCI-Presence
                                                                OPTIONAL,
    uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                         UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                                                                                    OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-Timeslot-InformationModify_ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
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    . . .
UL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID
                                            DPCH-ID,
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode
                                                                         OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    . . .
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
ļ
UL-TimeslotLCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-Timeslot-LCR-InformationModify-
ModifyItem-RL-ReconfPrepTDD -- For 1.28Mcps TDD only
UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    timeSlotLCR
                                            TimeSlotLCR,
    midambleShiftLCR
                                MidambleShiftLCR
                                                         OPTIONAL,
    tFCI-Presence
                                                                 OPTIONAL,
                                            TFCI-Presence
    uL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLCR
                                                                             UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLCR
                                                                                                                                           OPTIONAL.
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    . . .
UL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
UL-Code-InformationModify-ModifyList-RL-ReconfPrepTDDLCR ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-Code-InformationModify-ModifyItem-RL-
ReconfPrepTDD
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLCR ::= SEQUENCE {
    dPCH-TD
                                            DPCH-ID,
    tdd-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR
                                                                             OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLCR-ExtIEs } }
    OPTIONAL,
    . . .
UL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDDLCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

UL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ UL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD }}

```
UL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                                 TYPE UL-DPCH-InformationModify-DeleteListIE-RL-
ReconfPrepTDD
                    PRESENCE mandatory }
ļ
UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF UL-DPCH-InformationModify-DeleteItem-RL-
ReconfPrepTDD
UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dPCH-ID
                                                DPCH-ID,
    iE-Extensions
                                                ProtocolExtensionContainer { { UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    . . .
UL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD
UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                                CCTrCH-ID.
    iE-Extensions
                                                ProtocolExtensionContainer { { UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    . . .
UL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD
DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD ::= SEOUENCE {
    cCTrCH-ID
                                                     CCTrCH-ID,
    tFCS
                                                     TFCS,
    tFCI-Coding
                                                     TFCI-Coding,
    punctureLimit
                                                     PunctureLimit,
    cCTrCH-TPCList
                                                     CCTrCH-TPCAddList-RL-ReconfPrepTDD
                                                                                                                     OPTIONAL,
    dl-DPCH-InformationList
                                                     DL-DPCH-InformationAddList-RL-ReconfPrepTDD
                                                                                                                     OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    . . .
DL-CCTrCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD
                                                               CRITICALITY reject
                                                                                         EXTENSION
                                                                                                                         DL-DPCH-LCR-
InformationAddList-RL-ReconfPrepTDD
                                        PRESENCE optional } -- For 1.28Mcps TDD only
      ID id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD
                                                             CRITICALITY ignore
                                                                                     EXTENSION DL-Power
                                                                                                                        PRESENCE optional }
}
```

```
CCTrCH-TPCAddList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCAddItem-RL-ReconfPrepTDD
                                                                                                                       -- For 3.84Mcps TDD only
CCTrCH-TPCAddItem-RL-ReconfPrepTDD
                                   ::= SEQUENCE {
    CCTrCH-ID
                                            CCTrCH-ID,
                                            ProtocolExtensionContainer { { CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs } }
    iE-Extensions
                                                                                                                             OPTIONAL,
    . . .
CCTrCH-TPCAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
ļ
DL-DPCH-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD }}
DL-DPCH-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                    TYPE DL-DPCH-InformationAddItem-RL-ReconfPrepTDD
                                                                                                                                          PRESENCE
mandatory }
}
DL-DPCH-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset.
    dL-Timeslot-Information
                                            DL-Timeslot-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } }
                                                                                                                                      OPTIONAL.
    . . .
DL-DPCH-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-LCR-InformationAddListIEs-RL-ReconfPrepTDD }}
DL-DPCH-LCR-InformationAddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                         TYPE DL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD
    PRESENCE mandatory } -- For 1.28Mcps TDD only
DL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    dL-Timeslot-InformationLCR
                                            DL-TimeslotLCR-Information,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs } }
                                                                                                                                         OPTIONAL,
    . . .
DL-DPCH-LCR-InformationAddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD

```
DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    cCTrCH-ID
                                                     CCTrCH-ID.
    + FCS
                                                     TECS
                                                                                                                              OPTIONAL,
    tFCI-Coding
                                                     TFCI-Coding
                                                                                                                              OPTIONAL,
    punctureLimit
                                                    PunctureLimit
                                                                                                                              OPTIONAL,
    cCTrCH-TPCList
                                                     CCTrCH-TPCModifvList-RL-ReconfPrepTDD
                                                                                                                              OPTIONAL,
    dl-DPCH-InformationAddList
                                                     DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD
                                                                                                                        OPTIONAL,
    dl-DPCH-InformationModifvList
                                                     DL-DPCH-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                                                                      OPTIONAL,
    dl-DPCH-InformationDeleteList
                                                    DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD
                                                                                                                     OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    . . .
DL-CCTrCH-InformationModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD CRITICALITY reject
                                                                                             EXTENSION
                                                                                                                     DL-DPCH-LCR-InformationModify-
AddList-RL-ReconfPrepTDD
                                PRESENCE optional }
CCTrCH-TPCModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfCCTrCHs)) OF CCTrCH-TPCModifyItem-RL-ReconfPrepTDD
CCTrCH-TPCModifyItem-RL-ReconfPrepTDD
                                         ::= SEOUENCE {
    cCTrCH-ID
                                            CCTrCH-ID,
                                            ProtocolExtensionContainer { { CCTrCH-TPCModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                 OPTIONAL,
    . . .
CCTrCH-TPCModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD }}
For 3.84Mcps TDD only
DL-DPCH-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                             TYPE DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD
    PRESENCE mandatory }
                           -- For 1.28Mcps TDD only
}
DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    dL-Timeslot-Information
                                            DL-Timeslot-Information,
                                            ProtocolExtensionContainer { { DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                             OPTIONAL,
    . . .
DL-DPCH-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-LCR-InformationModify-AddListIEs-RL-ReconfPrepTDD }}

```
DL-DPCH-LCR-InformationModify-AddListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                                 TYPE DL-DPCH-LCR-InformationModify-AddItem-RL-
ReconfPrepTDD
                    PRESENCE mandatory }
DL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod,
    repetitionLength
                                            RepetitionLength,
    tdd-DPCHOffset
                                            TDD-DPCHOffset,
    dL-Timeslot-InformationLCR
                                            DL-TimeslotLCR-Information
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    . . .
DL-DPCH-LCR-InformationModify-AddItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-DPCH-InformationModify_ModifyList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD }}
DL-DPCH-InformationModify-ModifyListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= {
    { ID id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD CRITICALITY reject
                                                                                                 TYPE DL-DPCH-InformationModify-ModifyItem-RL-
ReconfPrepTDD
                    PRESENCE mandatory }
DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    repetitionPeriod
                                            RepetitionPeriod
                                                                         OPTIONAL,
    repetitionLength
                                            RepetitionLength
                                                                         OPTIONAL,
    tdd-DPCHOffset
                                            TDD-DPCHOffset
                                                                         OPTIONAL,
    dL-Timeslot-InformationAddModify-ModifyList-RL-ReconfPrepTDD
                                                                         DL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                                                                                          OPTIONAL.
    iE-Extensions
                                                ProtocolExtensionContainer { { DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    . . .
DL-DPCH-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                            CRITICALITY reject
                                                                                                                        EXTENSION
                                                                                                                                        DL-Timeslot-
LCR-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                        PRESENCE optional }
DL-Timeslot-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSs)) OF DL-Timeslot-InformationModify-ModifyItem-RL-
ReconfPrepTDD
DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD
                                                             ::= SEOUENCE {
    timeSlot
                                            TimeSlot,
    midambleShiftAndBurstType
                                            MidambleShiftAndBurstType
                                                                                 OPTIONAL,
```

```
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                                                                          410
    tFCI-Presence
                                            TFCI-Presence
                                                                     OPTIONAL.
    dL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                         DL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                                                                                        OPTIONAL.
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs }
    OPTIONAL,
    . . .
DL-Timeslot-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Code-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEOUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD
DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD
                                                          ::= SEQUENCE {
    dPCH-ID
                                            DPCH-ID.
    tdd-ChannelisationCode
                                            TDD-ChannelisationCode
                                                                         OPTIONAL.
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    . . .
DL-Code-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-Timeslot-InformationModify-ModifyItem-
RL-ReconfPrepTDD
DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD
                                                                  ::= SEOUENCE
    timeSlotLCR
                                            TimeSlotLCR,
    midambleShiftLCR
                                MidambleShiftLCR
                                                             OPTIONAL,
    tFCI-Presence
                                            TFCI-Presence
                                                                     OPTIONAL,
                                                                             DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD
    dL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD
                                                                                                                                              OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    . . .
DL-Timeslot-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
DL-Code-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (0..maxNrOfDPCHs)) OF DL-Code-InformationModify-ModifyItem-RL-
ReconfPrepTDD
DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD
                                                              ::= SEQUENCE {
    dPCH-ID
                                            DPCH-ID,
    tdd-ChannelisationCodeLCR
                                            TDD-ChannelisationCodeLCR
                                                                             OPTIONAL,
    iE-Extensions
                                            ProtocolExtensionContainer { { DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    OPTIONAL,
    . . .
DL-Code-LCR-InformationModify-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

. . .

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DL-DPCH-InformationModify-DeleteList-RL-ReconfPrepTDD ::= ProtocolIE-Single-Container {{ DL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD }}

DL-DPCH-InformationModify-DeleteListIEs-RL-ReconfPrepTDD NBAP-PROTOCOL-IES ::= { { ID id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD CRITICALITY reject TYPE DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD PRESENCE mandatory } DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDPCHs)) OF DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE { dPCH-ID DPCH-ID, ProtocolExtensionContainer { { DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs } } iE-Extensions OPTIONAL, . . . DL-DPCH-InformationModify-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD ::= SEOUENCE (SIZE (1..maxNrOfCCTrCHs)) OF DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD ::= SEQUENCE { cCTrCH-ID CCTrCH-ID, iE-Extensions ProtocolExtensionContainer { { DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs } } OPTIONAL, . . .

```
DL-CCTrCH-InformationDeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```
DCH-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-DeleteItem-RL-ReconfPrepTDD
```

```
DCH-DeleteItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dCH-ID
                                                 DCH-ID,
    iE-Extensions
                                                 ProtocolExtensionContainer { { DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs } }
                                                                                                                               OPTIONAL,
    . . .
DCH-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DSCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEOUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-ModifyItem-RL-ReconfPrepTDD
DSCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    dSCH-ID
                                                 DSCH-ID,
    cCTrCH-ID
                                                 CCTrCH-ID
                                                                          OPTIONAL,
```

```
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                                                                          412
    transportFormatSet
                                                 TransportFormatSet
                                                                         OPTIONAL,
    allocationRetentionPriority
                                                 AllocationRetentionPriority OPTIONAL,
    frameHandlingPriority
                                                 FrameHandlingPriority
                                                                         OPTIONAL.
    toAWS
                                                 TOAWS
                                                                         OPTIONAL,
    toAWE
                                                 TOAWE
                                                                         OPTIONAL,
    transportBearerRequestIndicator
                                                 TransportBearerRequestIndicator,
                                                 ProtocolExtensionContainer { { DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
    iE-Extensions
                                                                                                                                           OPTIONAL,
    . . .
DSCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
ι
DSCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEOUENCE (SIZE (1..maxNrOfDSCHs)) OF DSCH-Information-DeleteItem-RL-ReconfPrepTDD
DSCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEOUENCE {
    dSCH-ID
                                                 DSCH-ID,
    iE-Extensions
                                                 ProtocolExtensionContainer { { DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs } }
                                                                                                                                           OPTIONAL,
    . . .
DSCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
USCH-Information-ModifyList-RL-ReconfPrepTDD ::= SEOUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-ModifyItem-RL-ReconfPrepTDD
USCH-Information-ModifyItem-RL-ReconfPrepTDD ::= SEQUENCE {
    uSCH-ID
                                                 USCH-ID,
    transportFormatSet
                                                 TransportFormatSet
                                                                         OPTIONAL,
                                                 AllocationRetentionPriority OPTIONAL,
    allocationRetentionPriority
    cCTrCH-ID
                                                 CCTrCH-ID
                                                                         OPTIONAL,
    transportBearerRequestIndicator
                                                 TransportBearerRequestIndicator,
    iE-Extensions
                                                 ProtocolExtensionContainer { { USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs } }
                                                                                                                                           OPTIONAL,
    . . .
USCH-Information-ModifyItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
USCH-Information-DeleteList-RL-ReconfPrepTDD ::= SEQUENCE (SIZE (1..maxNrOfUSCHs)) OF USCH-Information-DeleteItem-RL-ReconfPrepTDD
USCH-Information-DeleteItem-RL-ReconfPrepTDD ::= SEOUENCE
    uSCH-ID
                                                 USCH-ID,
    iE-Extensions
                                                 ProtocolExtensionContainer { { USCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs } }
                                                                                                                                           OPTIONAL,
    . . .
USCH-Information-DeleteItem-RL-ReconfPrepTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

}

RL-Information-RL-ReconfPrepTDD ::= SEQUENCE {				
rL-ID	RL-ID,			
maxDL-Power	DL-Power OI	PTIONAL,		
minDL-Power	DL-Power OI	PTIONAL,		
iE-Extensions	ProtocolExtensionConta	ainer { { RL-Information-RL-ReconfPr	<pre>repTDD-ExtIEs} }</pre>	OPTIONAL,
}				
RL-Information-RL-ReconfPrepTDD-ExtIEs NBAP-P { ID id-InitDL-Power CRITICALITY ig	ROTOCOL-EXTENSION ::= { nore EXTENSION DL-1	Power PRESENCE optional	},	
}				

# 9.3.6 Constant Definitions

-- C

-- Constant definitions

NBAP-Constants {
 itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
 umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Constants (4)}

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS ProcedureCode, ProtocolIE-ID FROM NBAP-CommonDataTypes;

___ -- Elementary Procedures _ _ ****** ProcedureCode ::= 0 id-audit id-auditRequired ProcedureCode ::= 1 id-blockResource ProcedureCode ::= 2id-cellDeletion ProcedureCode ::= 3 id-cellReconfiguration ProcedureCode ::= 4ProcedureCode ::= 5 id-cellSetup id-cellSynchronisationInitiation ProcedureCode ::= 39 ProcedureCode ::= 40 id-cellSynchronisationReconfiguration ProcedureCode ::= 41 id-cellSynchronisationReporting ProcedureCode ::= 42 id-cellSynchronisationTermination id-cellSynchronisationFailure ProcedureCode ::= 43 id-commonMeasurementFailure ProcedureCode ::= 6 id-commonMeasurementInitiation ProcedureCode ::= 7id-commonMeasurementReport ProcedureCode ::= 8 id-commonMeasurementTermination ProcedureCode ::= 9 id-commonTransportChannelDelete ProcedureCode ::= 10 ProcedureCode ::= 11 id-commonTransportChannelReconfigure id-commonTransportChannelSetup ProcedureCode ::= 12 id-compressedModeCommand ProcedureCode ::= 14 id-dedicatedMeasurementFailure ProcedureCode ::= 16 id-dedicatedMeasurementInitiation ProcedureCode ::= 17 ProcedureCode ::= 18 id-dedicatedMeasurementReport id-dedicatedMeasurementTermination ProcedureCode ::= 19 id-downlinkPowerControl ProcedureCode ::= 20

id-downlinkPowerTimeslotControl	ProcedureCode	::=	38
id-errorIndicationForCommon	ProcedureCode	::=	35
id-errorIndicationForDedicated	ProcedureCode	::=	21
id-informationExchangeFailure	ProcedureCode	::=	40
id-informationExchangeInitiation	ProcedureCode	::=	41
id-informationExchangeTermination	ProcedureCode	::=	42
id-informationReporting	ProcedureCode	::=	43
id-physicalSharedChannelReconfiguration	ProcedureCode	::=	37
id-privateMessageForCommon	ProcedureCode	::=	36
id-privateMessageForDedicated	ProcedureCode	::=	22
id-radioLinkAddition	ProcedureCode	::=	23
id-radioLinkDeletion	ProcedureCode	::=	24
id-radioLinkFailure	ProcedureCode	::=	25
id-radioLinkPreemption	ProcedureCode	::=	39
id-radioLinkRestoration	ProcedureCode	::=	26
id-radioLinkSetup	ProcedureCode	::=	27
id-reset	ProcedureCode	::=	13
id-resourceStatusIndication	ProcedureCode	::=	28
id-cellSynchronisationAdjustment	ProcedureCode	::=	44
id-synchronisedRadioLinkReconfigurationCancellation	ProcedureCode	::=	29
id-synchronisedRadioLinkReconfigurationCommit	ProcedureCode	::=	30
id-synchronisedRadioLinkReconfigurationPreparation	ProcedureCode	::=	31
id-systemInformationUpdate	ProcedureCode	::=	32
id-unblockResource	ProcedureCode	::=	33
id-unSynchronisedRadioLinkReconfiguration	ProcedureCode	::=	34

#### 

#### --

-- Lists

#### 

maxNrOfCodes	INTEGER	::=	10
maxNrOfDLTSs	INTEGER	::=	15
maxNrOfDLTSLCRs	INTEGER	::=	6
maxNrOfErrors	INTEGER	::=	256
maxNrOfTFs	INTEGER	::=	32
maxNrOfTFCs	INTEGER	::=	1024
maxNrOfRLs	INTEGER	::=	16
maxNrOfRLs-1	INTEGER	::=	15 maxNrOfRLs - 1
maxNrOfRLs-2	INTEGER	::=	14 maxNrOfRLs - 2
maxNrOfRLSets	INTEGER	::=	maxNrOfRLs
maxNrOfDPCHs	INTEGER	::=	240
maxNrOfDPCHLCRs	INTEGER	::=	240
maxNrOfSCCPCHs	INTEGER	::=	8
maxNrOfCPCHs	INTEGER	::=	16
maxNrOfPCPCHs	INTEGER	::=	64
maxNrOfDCHs	INTEGER	::=	128
maxNrOfDSCHs	INTEGER	::=	32
maxNrOfFACHs	INTEGER	::=	8
maxNrOfCCTrCHs	INTEGER	::=	16
maxNrOfPDSCHs	INTEGER	::=	256
maxNrOfPUSCHs	INTEGER	::=	256

maxNrOfSF

maxNrOfLevels

maxCommunicationContext

maxTGPS

maxNoSat maxNoGPSItems

_ _ -- IEs ___

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maxNrOfPDSCHSets	INTEGER ::= 256	
maxNrOfPRACHLCRs	INTEGER ::= 8	
maxNrOfPUSCHSets	INTEGER ::= 256	
maxNrOfSCCPCHLCRs	INTEGER ::= 8	
maxNrOfULTSs	INTEGER ::= 15	
maxNrOfULTSLCRs	INTEGER ::= 6	
maxNrOfUSCHs	INTEGER ::= 32	
maxAPSigNum	INTEGER ::= 16	
maxNrOfSlotFormatsPRACH	INTEGER ::= 8	
maxCellinNodeB	INTEGER ::= 256	
maxCCPinNodeB	INTEGER ::= 256	
maxCPCHCell	INTEGER ::= maxNrOfCPCHs	
maxCTFC	INTEGER ::= 16777215	
maxLocalCellinNodeB	INTEGER ::= maxCellinNodeB	
maxNoofLen	INTEGER ::= 7	
maxFPACHCell	INTEGER ::= 8	
maxRACHCell	INTEGER ::= maxPRACHCell	
maxPRACHCell	INTEGER ::= 16	
maxPCPCHCell	INTEGER ::= 64	
maxSCCPCHCell	INTEGER ::= 32	
maxSCPICHCell	INTEGER ::= 32	
maxTTI-count	INTEGER ::= 4	
maxIBSEG	INTEGER ::= 16	
maxIB	INTEGER ::= 64	
maxFACHCell	INTEGER ::= 256 maxNrOfFACH	s * maxSCCPCHCell
maxRateMatching	INTEGER ::= 256	
maxCodeNrComp-1	INTEGER ::= 256	
maxNrOfCellSyncBursts	INTEGER ::= 10	
maxNrOfCodeGroups	INTEGER ::= 256	
maxNrOfReceptsPerSyncFrame	INTEGER ::= 16	
maxNrOfMeasNCell	INTEGER ::= 96	
maxNrOfMeasNCell-1	INTEGER ::= 95 maxNrOfMeas	NCell - 1
maxNrOfTFCIGroups	INTEGER ::= 256	
maxNrOfTFCI1Combs	INTEGER ::= 512	
maxNrOfTFCI2Combs	INTEGER ::= 1024	
maxNrOfTFCI2Combs-1	INTEGER ::= 1023	
maxNrOfSF	INTEGER ::= 8	

id-AICH-Information	ProtocolIE-ID ::= 0
id-AICH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 1
id-BCH-Information	ProtocolIE-ID ::= 7
id-BCH-InformationItem-ResourceStatusInd	ProtocolIE-ID ::= 8

INTEGER ::= 6

INTEGER ::= 8 

INTEGER ::= 256 INTEGER ::= 16

INTEGER ::= 1048575

id-BCCH-ModificationTime id-BlockingPriorityIndicator id-Cause id-CCP-InformationItem-AuditRsp id-CCP-InformationList-AuditRsp id-CCP-InformationItem-ResourceStatusInd id-Cell-InformationItem-AuditRsp id-Cell-InformationItem-ResourceStatusInd id-Cell-InformationList-AuditRsp id-CellParameterID id-CFN id-C-ID id-CommonMeasurementAccuracy id-CommonMeasurementObjectType-CM-Rprt id-CommonMeasurementObjectType-CM-Rqst id-CommonMeasurementObjectType-CM-Rsp id-CommonMeasurementType id-CommonPhysicalChannelID id-CommonPhysicalChannelType-CTCH-SetupRqstFDD id-CommonPhysicalChannelType-CTCH-SetupRqstTDD id-CommunicationControlPortID id-ConfigurationGenerationID id-CRNC-CommunicationContextID id-CriticalityDiagnostics id-DCHs-to-Add-FDD id-DCH-AddList-RL-ReconfPrepTDD id-DCHs-to-Add-TDD id-DCH-DeleteList-RL-ReconfPrepFDD id-DCH-DeleteList-RL-ReconfPrepTDD id-DCH-DeleteList-RL-ReconfRqstFDD id-DCH-DeleteList-RL-ReconfRgstTDD id-DCH-FDD-Information id-DCH-TDD-Information id-DCH-InformationResponse id-FDD-DCHs-to-Modify id-TDD-DCHs-to-Modify id-DCH-ModifyList-RL-ReconfRqstTDD id-DedicatedMeasurementObjectType-DM-Rprt id-DedicatedMeasurementObjectType-DM-Rgst id-DedicatedMeasurementObjectType-DM-Rsp id-DedicatedMeasurementType id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD id-DL-CCTrCH-InformationList-RL-SetupRqstTDD id-DL-DPCH-InformationItem-RL-AdditionRgstTDD id-DL-DPCH-InformationList-RL-SetupRqstTDD id-DL-DPCH-Information-RL-ReconfPrepFDD id-DL-DPCH-Information-RL-ReconfRqstFDD id-DL-DPCH-Information-RL-SetupRqstFDD id-DL-ReferencePowerInformationItem-DL-PC-Rqst id-DLReferencePower

id-DLReferencePowerList-DL-PC-Rqst id-DSCH-AddItem-RL-ReconfPrepFDD

Protocol	IE-ID	::=	9
Protocol	IE-ID	::=	10
Protocol	TE-TD	::=	13
Protocol	TR-TD		14
			1 -
Protocol	IE-ID	••=	10
Protocol	IE-ID	::=	16
Protocol	IE-ID	::=	17
Protocol	IE-ID	::=	18
Protocol	IE-ID	::=	19
Protocol	IE-ID	::=	23
Protocol	IE-ID	::=	24
Protocol	TE-TD	::=	25
Protocol		::=	20
Protocol			21
Protocol	IE-ID	=	27
Protocol	TE-ID	::=	32
Protocol	IE-ID	::=	33
Protocol	IE-ID	::=	34
Protocol	IE-ID	::=	35
Protocol	IE-ID	::=	36
Protocol	IE-ID	::=	37
Protocol	 TE-TD	::=	40
Protocol			43
Protocol			10
Protocol	IE-ID	••=	44
Protocol	IE-ID	::=	45
Protocol	IE-ID	::=	48
Protocol	IE-ID	::=	49
Protocol	IE-ID	::=	50
Protocol	IE-ID	::=	52
Protocol	IE-ID	::=	53
Protocol	 TF-TD	::=	54
Drotocol			55
Protocol	IE-ID	=	55
Protocol	TE-TD	::=	50
Protocol	IE-ID	::=	57
Protocol	IE-ID	::=	59
Protocol	IE-ID	::=	62
Protocol	IE-ID	::=	63
Protocol	IE-ID	::=	65
Protocol	TE-TD	::=	67
Protocol		::=	68
Dwotogol			60
PIOLOCOI	IE-ID	••=	609
Protocol	IE-ID	::=	./0
Protocol	IE-ID	::=	72
Protocol	IE-ID	::=	73
Protocol	IE-ID	::=	76
Protocol	IE-ID	::=	77
Protocol	IE-ID	::=	79
Protocol	TE-TD	::=	81
Protocol			8 J
Drotocol			02
Protocol	TR-TD	••=	03
Protocol	TR-TD	• • =	84
Protocol	IE-ID	::=	85
Protocol	IE-ID	::=	86
Protocol	IE-ID	::=	87

id-DSCHs-to-Add-FDD	ProtocolIE-ID	::=	89
id-DSCH-DeleteItem-RL-ReconfPrepFDD	ProtocolIE-ID	::=	91
id-DSCH-DeleteList-RL-ReconfPrepFDD	ProtocolIE-ID	::=	93
id-DSCHs-to-Add-TDD	ProtocolIE-ID	::=	96
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID	::=	98
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID	::=	100
id-DSCH-InformationResponse	ProtocolIE-ID	::=	105
id-DSCH-FDD-Information	ProtocolIE-ID	::=	106
id-DSCH-TDD-Information	ProtocolIE-ID	::=	107
id-DSCH-ModifyItem-RL-ReconfPrepFDD	ProtocolIE-ID	::=	108
id-DSCH-ModifyList-RL-ReconfPrepFDD	ProtocolIE-ID	::=	112
id-End-Of-Audit-Sequence-Indicator	ProtocolIE-ID	::=	113
id-FACH-Information	ProtocolIE-ID	::=	116
id-FACH-InformationItem-ResourceStatusInd	ProtocolIE-ID	::=	117
id-FACH-ParametersList-CTCH-ReconfRqstTDD	ProtocolIE-ID	::=	120
id-FACH-ParametersListIE-CTCH-SetupRqstFDD	ProtocolIE-ID	::=	121
id-FACH-ParametersListIE-CTCH-SetupRqstTDD	ProtocolIE-ID	::=	122
id-IndicationType-ResourceStatusInd	ProtocolIE-ID	::=	123
id-Local-Cell-ID	ProtocolIE-ID	::=	124
id-Local-Cell-Group-InformationItem-AuditRsp	ProtocolIE-ID	::=	2
id-Local-Cell-Group-InformationItem-ResourceStatusInd	ProtocolIE-ID	::=	3
id-Local-Cell-Group-InformationItem2-ResourceStatusInd	ProtocolIE-ID	::=	4
id-Local-Cell-Group-InformationList-AuditRsp	ProtocolIE-ID	::=	5
id-Local-Cell-InformationItem-AuditRsp	ProtocolIE-ID	::=	125
id-Local-Cell-InformationItem-ResourceStatusInd	ProtocolIE-ID	::=	126
id-Local-Cell-InformationItem2-ResourceStatusInd	ProtocolIE-ID	::=	127
id-Local-Cell-InformationList-AuditRsp	ProtocolIE-ID	::=	128
id-AdjustmentPeriod	ProtocolIE-ID	::=	129
id-MaxAdjustmentStep	ProtocolIE-ID	::=	130
id-MaximumTransmissionPower	ProtocolIE-ID	::=	131
id-MeasurementFilterCoefficient	ProtocolIE-ID	::=	132
id-MeasurementID	ProtocolIE-ID	::=	133
id-MessageStructure	ProtocolIE-ID	::=	115
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst	ProtocolIE-ID	::=	134
id-NodeB-CommunicationContextID	ProtocolIE-ID	::=	143
id-NeighbouringCellMeasurementInformation	ProtocolIE-ID	::=	455
id-P-CCPCH-Information	ProtocolIE-ID	::=	144
id-P-CCPCH-InformationItem-ResourceStatusInd	ProtocolIE-ID	::=	145
id-P-CPICH-Information	ProtocolIE-ID	::=	146
id-P-CPICH-InformationItem-ResourceStatusInd	ProtocolIE-ID	::=	147
id-P-SCH-Information	ProtocolIE-ID	::=	148
id-PCCPCH-Information-Cell-ReconfRqstTDD	ProtocolIE-ID	::=	150
id-PCCPCH-Information-Cell-SetupRestTDD	ProtocolIE-ID	::=	151
id-PCH-Parameters-CTCH-ReconfRgstTDD	ProtocolIE-ID	::=	155
id-PCH-ParametersItem-CTCH-SetupRqstFDD	ProtocolIE-ID	::=	156
id-PCH-ParametersItem-CTCH-SetupRestTDD	ProtocolIE-ID	::=	157
id-PCH-Information	ProtocolIE-ID	::=	158
id-PDSCH-Information-AddListIE-PSCH-ReconfRast	ProtocolIE-ID	::=	161
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRgst	ProtocolIE-ID	::=	162
id-PDSCHSets-AddList-PSCH-ReconfRast	ProtocolIE-ID	::=	163
id-PDSCHSets-DeleteList-PSCH-ReconfRast	ProtocolIE-ID	::=	164
id-PDSCHSets-ModifyList-PSCH-ReconfRast	ProtocolIE-ID	::=	165
id-PICH-Information	ProtocolIE-ID	::=	166

id-PICH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID	::=	168
id-PowerAdjustmentType	ProtocolIE-ID	::=	169
id-PRACH-Information	ProtocolIE-ID	::=	170
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID	::=	175
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD	ProtocolIE-ID	::=	176
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID	::=	177
id-PrimaryCPICH-Information-Cell-SetupRqstFDD	ProtocolIE-ID	::=	178
id-PrimarySCH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID	::=	179
id-PrimarySCH-Information-Cell-SetupRqstFDD	ProtocolIE-ID	::=	180
id-PrimaryScramblingCode	ProtocolIE-ID	::=	181
id-SCH-Information-Cell-ReconfRqstTDD	ProtocolIE-ID	::=	183
id-SCH-Information-Cell-SetupRqstTDD	ProtocolIE-ID	::=	184
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID	::=	185
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID	::=	186
id-PUSCHSets-AddList-PSCH-ReconfRqst	ProtocolIE-ID	::=	187
id-PUSCHSets-DeleteList-PSCH-ReconfRqst	ProtocolIE-ID	::=	188
id-PUSCHSets-ModifyList-PSCH-ReconfRqst	ProtocolIE-ID	::=	189
id-RACH-Information	ProtocolIE-ID	::=	190
id-RACH-ParametersItem-CTCH-SetupRqstFDD	ProtocolIE-ID	::=	196
id-RACH-ParameterItem-CTCH-SetupRqstTDD	ProtocolIE-ID	::=	197
id-ReportCharacteristics	ProtocolIE-ID	::=	198
id-Reporting-Object-RL-FailureInd	ProtocolIE-ID	::=	199
id-Reporting-Object-RL-RestoreInd	ProtocolIE-ID	::=	200
id-RL-InformationItem-DM-Rprt	ProtocolIE-ID	::=	202
id-RL-InformationItem-DM-Rost	ProtocolIE-ID	::=	203
id-RL-InformationItem-DM-Rsp	ProtocolIE-ID	::=	204
id-RL-InformationItem-RL-AdditionRgstFDD	ProtocolIE-ID	::=	205
id-RL-informationItem-RL-DeletionRgst	ProtocolIE-ID	::=	206
id-RL-InformationItem-RL-FailureInd	ProtocolIE-ID	::=	207
id-RL-InformationItem-RL-PreemptRequiredInd	ProtocolTE-TD	::=	286
id-RL-InformationItem-RL-ReconfPrepFDD	ProtocolIE-ID	::=	208
id-RL-InformationItem-RL-ReconfRgstFDD	ProtocolIE-ID	::=	209
id_RL_InformationTtem_RL_RestoreInd	ProtocolIE-ID	::=	210
id_BL_InformationTtem_BL_SetupRestEDD	ProtocolIE ID		211
id_PL_InformationList_PL_AdditionProstFDD	ProtocolIE ID	••-	212
id_PL_informationList_PL_DeletionPast	ProtocolIE-ID		212
id_BL_InformationList_BL_Descentionalized	ProtocoliE-ID ProtocoliE-ID		213
id_BL_InformationList_BL_Preenptkequiteuna	ProtocolIE-ID		237
id_BL_InformationList_BL_ReconflegtEDD	ProtocolIE-ID		215
id-RL-InformationList-RL-SetupResetEDD	ProtocoliE-ID ProtocoliE-ID		215
id Di InformationDernanter Di AdditionDer DD	ProtocollE-ID	=	210
id Di Information Desensolten Di Desenforshi	ProtocollE-ID	=	210
id RL InformationResponseitem RL Recontready	ProtocollE-ID	=	210
id-RL-InformationResponseitem-RL-Recontrap	ProtocollE-ID	=	219
id-RL-InformationResponseitem-RL-SetUpRspFDD	ProtocollE-ID	••=	220
id-RL-InformationResponseList-RL-AdditionRspFDD	ProtocollE-ID	::=	221
id-RL-InformationResponseList-RL-Reconfready	ProtocollE-ID	::=	222
id-RL-InformationResponseList-RL-ReconfRsp	ProtocolIE-ID	::=	223
id-RL-InformationResponseList-RL-SetupRspFDD	ProtocolIE-ID	::=	224
id-RL-InformationResponse-RL-AdditionRspTDD	ProtocolIE-ID	::=	225
id-RL-InformationResponse-RL-SetupRspTDD	ProtocolIE-ID	::=	226
id-RL-Information-RL-AdditionRqstTDD	ProtocolIE-ID	::=	227
id-RL-Information-RL-ReconfRqstTDD	ProtocolIE-ID	::=	228
id-RL-Information-RL-ReconfPrepTDD	ProtocolIE-ID	::=	229

id-RL-Information-RL-SetupRqstTDD	ProtocolIE-ID ::= 230
id-RL-ReconfigurationFailureItem-RL-ReconfFailure	ProtocolIE-ID ::= 236
id-RL-Set-InformationItem-DM-Rprt	ProtocolIE-ID ::= 238
id-RL-Set-InformationItem-DM-Rsp	ProtocolIE-ID ::= 240
id-RL-Set-InformationItem-RL-FailureInd	ProtocolIE-ID ::= 241
id-RL-Set-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 242
id-S-CCPCH-Information	ProtocolIE-ID ::= 247
id-S-CPICH-Information	ProtocolIE-ID ::= 249
id-SCH-Information	ProtocolIE-ID ::= 251
id-S-SCH-Information	ProtocolIE-ID ::= 253
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 257
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 258
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 259
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 260
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD	ProtocolIE-ID ::= 261
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 262
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD	ProtocolIE-ID ::= 263
id-SecondarySCH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID ::= 264
id-SecondarySCH-Information-Cell-SetupRqstFDD	ProtocolIE-ID ::= 265
id-SegmentInformationListIE-SystemInfoUpdate	ProtocolIE-ID ::= 266
id-SFN	ProtocolIE-ID ::= 268
id-ShutdownTimer	ProtocolIE-ID ::= 269
id-Start-Of-Audit-Sequence-Indicator	ProtocolIE-ID ::= 114
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD	ProtocolIE-ID ::= 270
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD	ProtocolIE-ID ::= 271
id-SyncCase	ProtocolIE-ID ::= 274
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH	ProtocolIE-ID ::= 275
id-T-Cell	ProtocolIE-ID ::= 276
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD	ProtocolIE-ID ::= 277
id-TimeSlotConfigurationList-Cell-SetupRqstTDD	ProtocolIE-ID ::= 278
id-TransmissionDiversityApplied	ProtocolIE-ID ::= 279
id-TypeOfError	ProtocolIE-ID ::= 508
id-UARFCNforNt	ProtocolIE-ID ::= 280
id-UARFCNforNd	ProtocolIE-ID ::= 281
id-UARFCNforNu	ProtocolIE-ID ::= 282
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD	ProtocolIE-ID ::= 284
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD	ProtocolIE-ID ::= 285
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 288
id-UL-DPCH-InformationItem-RL-AdditionRgstTDD	ProtocolIE-ID ::= 289
id-UL-DPCH-InformationList-RL-SetupRqstTDD	ProtocolIE-ID ::= 291
id-UL-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 293
id-UL-DPCH-Information-RL-ReconfRgstFDD	ProtocolIE-ID ::= 294
id-UL-DPCH-Information-RL-SetupRgstFDD	ProtocolIE-ID ::= 295
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD	ProtocolIE-ID ::= 296
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD	ProtocolIE-ID ::= 297
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD	ProtocolIE-ID ::= 300
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD	ProtocolIE-ID ::= 301
id-USCH-Information-Add	ProtocolIE-ID ::= 302
id-USCH-Information-DeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 304
id-USCH-Information-ModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 306
id-USCH-InformationResponse	ProtocolIE-ID ::= 309
id-USCH-Information	ProtocolIE-ID ::= 310
id-Active-Pattern-Sequence-Information	ProtocolIE-ID ::= 315

id-AICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 316
id-AdjustmentRatio	ProtocolIE-ID ::= 317
id-AP-AICH-Information	ProtocolIE-ID ::= 320
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 322
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 323
id-CauseLevel-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 324
id-CauseLevel-RL-AdditionFailureFDD	ProtocolIE-ID ::= 325
id-CauseLevel-RL-AdditionFailureTDD	ProtocolIE-ID ::= 326
id-CauseLevel-RL-ReconfFailure	ProtocolIE-ID ::= 327
id-CauseLevel-RL-SetupFailureFDD	ProtocolIE-ID ::= 328
id-CauseLevel-RL-SetupFailureTDD	ProtocolIE-ID ::= 329
id-CDCA-ICH-Information	ProtocolIE-ID ::= 330
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 332
id-Closed-Loop-Timing-Adjustment-Mode	ProtocolIE-ID ::= 333
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 334
id-Compressed-Mode-Deactivation-Flag	ProtocolIE-ID ::= 335
id-CPCH-Information	ProtocolIE-ID ::= 336
id-CPCH-Parameters-CTCH-SetupRsp	ProtocolIE-ID ::= 342
id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 343
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 346
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 347
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 348
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 349
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRgstTDD	ProtocolIE-ID ::= 350
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 351
id-DL-CCTrCH-InformationModifyList-RL-ReconfRgstTDD	ProtocolIE-ID ::= 352
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 353
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 355
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 356
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 357
id-DL-TPC-Pattern01Count	ProtocolIE-ID ::= 358
id-DPC-Mode	ProtocolIE-ID ::= 450
id-DPCHConstant	ProtocolIE-ID ::= 359
id-DSCH-FDD-Common-Information	ProtocolIE-ID ::= 94
id-EnhancedDSCHPC	ProtocolIE-ID ::= 110
id-EnhancedDSCHPCIndicator	ProtocolIE-ID ::= 111
id-FACH-ParametersList-CTCH-SetupRsp	ProtocolIE-ID ::= 362
id-Limited-power-increase-information-Cell-SetupRostFDD	ProtocolIE-ID ::= 369
id-PCH-Parameters-CTCH-SetupRsp	ProtocolIE-ID ::= 374
id-PCH-ParametersItem-CTCH-ReconfRastFDD	ProtocolIE-ID ::= 375
id-PCPCH-Information	ProtocollE-ID ::= 376
id-PICH-ParametersItem-CTCH-ReconfRastFDD	ProtocolIE-ID ::= 380
id-PRACHConstant	ProtocolIE-ID ::= 381
id-DRACH-DarametergListIF-CTCH-ReconfRostFDD	ProtocolIE-ID ::= 383
id-DUSCHConstant	ProtocolIE-ID ::= 384
id-RACH-Darameterg-CTCH-SetupRep	ProtocolIE-ID ::= 385
id_SSDT_CellIDforFDSCHDC	ProtocoliE ID ::= 443
id-Symphronisation-Configuration-Cell-ReconfRast	ProtocolIE-ID ··- 303
id-Synchronisation-Configuration-Cell-SetupRast	ProtocolIE-ID ··- 393
id_Transmission_Can_Dattern_Seguence_Information	ProtocoliE-ID ··- 205
id_III_CCTrCH_Information/ddLigt_PL_PegonfDrenTDD	ProtocoliE-ID ··- 395
id-III_COTrOU_InformationDolotoItom-DI_PogonfBactTDD	Protocolin-ID ··- 390
id-III-CCIICH-INIOFIMALIONDELECEICENERL-RECONTRASCIDD	ProtocollE-ID ··= 39/
IC-OP-CCIICE-INIOIMGLIONDEIECEDISC-RE-RECONFLEDIDD	FICCOCOTIE-ID ··= 398

id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 399
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD	ProtocolIE-ID ::= 400
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 401
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 402
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 403
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 405
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 406
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD	ProtocolIE-ID ::= 407
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 408
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD	ProtocolIE-ID ::= 409
id-CommunicationContextInfoItem-Reset	ProtocolIE-ID ::= 412
id-CommunicationControlPortInfoItem-Reset	ProtocolIE-ID ::= 414
id-ResetIndicator	ProtocolIE-ID ::= 416
id-TFCI2-Bearer-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 417
id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD	ProtocolIE-ID ::= 418
id-TFCI2-BearerInformationResponse	ProtocolIE-ID ::= 419
id-TimingAdvanceApplied	ProtocolIE-ID ::= 287
id-CFNReportingIndicator	ProtocolIE-ID ::= 6
id-SFNReportingIndicator	ProtocolIE-ID ::= 11
id-InnerLoopDLPCStatus	ProtocolIE-ID ::= 12
id-TimeslotISCPInfo	ProtocolIE-ID ::= 283
id-PICH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 167
id-PRACH-ParametersItem-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 20
id-CCTrCH-InformationItem-RL-FailureInd	ProtocolIE-ID ::= 46
id-CCTrCH-InformationItem-RL-RestoreInd	ProtocolIE-ID ::= 47
id-CauseLevel-SyncAdjustmntFailureTDD	ProtocolIE-ID ::= 420
id-CellAdjustmentInfo-SyncAdjustmntRqstTDD	ProtocolIE-ID ::= 421
id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD	ProtocolIE-ID ::= 494
id-CellSyncBurstInfoList-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 482
id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 422
id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 423
id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 424
id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 425
id-CellSyncBurstTransInfoList-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 426
id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 427
id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD	ProtocolIE-ID ::= 428
id-CellSyncInfo-CellSyncReprtTDD	ProtocolIE-ID ::= 429
id-CSBTransmissionID	ProtocolIE-ID ::= 430
id-CSBMeasurementID	ProtocolIE-ID ::= 431
id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD	ProtocolIE-ID ::= 432
id-NCyclesPerSFNperiod	ProtocolIE-ID ::= 433
id-NRepetitionsPerCyclePeriod	ProtocolIE-ID ::= 434
id-SyncFrameNumber	ProtocolIE-ID ::= 437
id-SynchronisationReportType	ProtocolIE-ID ::= 438
id-SynchronisationReportCharacteristics	ProtocolIE-ID ::= 439
id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD	ProtocolIE-ID ::= 440
id-LateEntranceCellSvncInfoItem-CellSvncReprtTDD	ProtocolIE-ID ::= 119
id-ReferenceClockAvailability	ProtocolIE-ID ::= 435
id-ReferenceSFNoffset	ProtocolIE-ID ::= 436
id-InformationExchangeID	ProtocolIE-ID ::= 444
id-InformationExchangeObjectType-InfEx-Rost	ProtocolIE-ID ::= 445
id-InformationType	ProtocolIE-ID ::= 446
id-InformationReportCharacteristics	ProtocolIE-ID ::= 447
<b>→</b>	

id-InformationExchangeObjectType-InfEx-Rsp id-InformationExchangeObjectType-InfEx-Rprt id-IPDLParameter-Information-Cell-ReconfRgstFDD id-IPDLParameter-Information-Cell-SetupRgstFDD id-IPDLParameter-Information-Cell-ReconfRgstTDD id-IPDLParameter-Information-Cell-SetupRgstTDD id-DL-DPCH-LCR-Information-RL-SetupRqstTDD id-DL-DPCH-LCR-InformationList-RL-SetupRgstTDD id-DwPCH-LCR-Information id-DwPCH-LCR-Information-AuditRsp id-DwPCH-LCR-InformationList-AuditRsp id-DwPCH-LCR-Information-Cell-SetupRgstTDD id-DwPCH-LCR-Information-Cell-ReconfRgstTDD id-DwPCH-LCR-Information-ResourceStatusInd id-maxFACH-Power-LCR-CTCH-SetupRqstTDD id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD id-FPACH-LCR-Information id-FPACH-LCR-Information-AuditRsp id-FPACH-LCR-InformationList-AuditRsp id-FPACH-LCR-InformationList-ResourceStatusInd id-FPACH-LCR-Parameters-CTCH-SetupRgstTDD id-FPACH-LCR-ParametersItem-CTCH-SetupRqstTDD id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD id-PCCPCH-LCR-Information-Cell-SetupRgstTDD id-PCH-Power-LCR-CTCH-SetupRgstTDD id-PCH-Power-LCR-CTCH-ReconfRqstTDD id-PICH-LCR-Parameters-CTCH-SetupRgstTDD id-PICH-LCR-ParametersItem-CTCH-SetupRgstTDD id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD id-PRACH-LCR-ParametersListIE-CTCH-SetupRgstTDD id-RL-InformationResponse-LCR-RL-SetupRspTDD id-Secondary-CCPCH-LCR-parameterListIE-CTCH-SetupRqstTDD id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD id-TimeSlot id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD id-TimeslotISCP-LCR-InfoList-RL-SetupRgstTDD id-TimeSlotLCR-CM-Rqst id-UL-DPCH-LCR-Information-RL-SetupRgstTDD id-UL-DPCH-LCR-InformationList-RL-SetupRqstTDD id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD id-DL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD id-DL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD

id-TimeslotISCPInfoList-LCR-DL-PC-RgstTDD

id-UL-DPCH-LCR-InformationModify-AddList

id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD

id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD

id-UL-DPCH-LCR-InformationModify-AddListIE-RL-ReconfPrepTDD

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ProtocolIE-ID	::=	448
ProtocolIE-ID	::=	449
ProtocolIE-ID	::=	451
ProtocolIE-ID	::=	452
ProtocolIE-ID	::=	453
ProtocolIE-ID	::=	454
ProtocolIE-ID	::=	74
ProtocolIE-ID	::=	75
ProtocolIE-ID	::=	78
ProtocolIE-ID	::=	80
ProtocolIE-ID	::=	90
ProtocolIE-ID	::=	97
ProtocolIE-ID	::=	99
ProtocolIE-ID	::=	101
ProtocolIE-ID	::=	154
ProtocolIE-ID	::=	174
ProtocolIE-ID	::=	290
ProtocolIE-ID	::=	292
ProtocolIE-ID	::=	310
ProtocolIE-ID	::=	311
ProtocolIE-ID	::=	312
ProtocolIE-ID	::=	313
ProtocolIE-ID	::=	314
ProtocolIE-ID	::=	456
ProtocolIE-ID	::=	457
ProtocolIE-ID	::=	458
ProtocolIE-ID	::=	459
ProtocolIE-ID	::=	460
ProtocolIE-ID	::=	461
ProtocolIE-ID	::=	462
ProtocolIE-ID	::=	463
ProtocolIE-ID	::=	464
ProtocolIE-ID	::=	465
ProtocolIE-ID	::=	495
ProtocolIE-ID	::=	466
ProtocolIE-ID	::=	467
ProtocolIE-ID	::=	468
ProtocolIE-ID	::=	469
ProtocolIE-ID	::=	470
ProtocolIE-ID	::=	471
ProtocolIE-ID	::=	472
ProtocolIE-ID	::=	473
ProtocolIE-ID	::=	474
ProtocolIE-ID	::=	475
ProtocolIE-ID	::=	476
ProtocolIE-ID	::=	477
ProtocolIE-ID	::=	478
ProtocolIE-ID	::=	479
ProtocolIE-ID	::=	480
ProtocolIE-ID	::=	481
ProtocolIE-ID	::=	483
ProtocolIE-ID	::=	484

ProtocolIE-ID ::= 485

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id-UL-SIRTarget	ProtocolIE-ID ::= 510
id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 486
id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 487
id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 488
id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 489
id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 490
id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 491
id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst	ProtocolIE-ID ::= 492
id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst	ProtocolIE-ID ::= 493
id-timeslotInfo-CellSyncInitiationRqstTDD	ProtocolIE-ID ::= 496
id-SyncReportType-CellSyncReprtTDD	ProtocolIE-ID ::= 497
id-PUSCH-Info-DM-Rqst	ProtocolIE-ID ::= 505
id-PUSCH-Info-DM-Rsp	ProtocolIE-ID ::= 506
id-PUSCH-Info-DM-Rprt	ProtocolIE-ID ::= 507
id-InitDL-Power	ProtocolIE-ID ::= 509
id-cellSyncBurstRepetitionPeriod	ProtocolIE-ID ::= 511
id-ReportCharacteristicsType-OnModification	ProtocolIE-ID ::= 512
id-SFNSFNMeasurementValueInformation	ProtocolIE-ID ::= 513
id-SFNSFNMeasurementThresholdInformation	ProtocolIE-ID ::= 514
id-TUTRANGPSMeasurementValueInformation	ProtocolIE-ID ::= 515
id-TUTRANGPSMeasurementThresholdInformation	ProtocolIE-ID ::= 516
id-Rx-Timing-Deviation-Value-LCR	ProtocolIE-ID ::= 520
id-RL-InformationResponse-LCR-RL-AdditionRspTDD	ProtocolIE-ID ::= 51
id-CCTrCH-Initial-DL-Power-RL-SetupRqstTDD	ProtocolIE-ID ::= 517
id-CCTrCH-Initial-DL-Power-RL-AdditionRqstTDD	ProtocolIE-ID ::= 518
id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD	ProtocolIE-ID ::= 519

END

# TSG-RAN WG 3 meeting #27

# TSGR3#27(02)0409

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Depending on the lowest supported output power level, the dynamic range on the dedicated channel would seriously be decreased. Very limited capacity to handle fast fading dips would be available for the DPCH. Note that the DPCH might e.g. carry a conversational RB, whereas the PDSCH would e.g. carry a background RB.

Another means to control the power resources spent on PDSCH could be to adjust SF or the level of channel coding when the power consumption increases above a certain level. But this is considered to slow (measurement- and switching time) and power peaks will arise anyway due to e.g. fast fading or sudden radio environmental changes. These type of adjustments is typically something for more long-term decisions, e.g. for UEs moving towards the cell boarder. To use this method to control the maximum power on PDSCH is considered unreliable.

	<ul> <li><u>RAN3#25</u></li> <li>Following changes were introduced based on comments received during RAN3#24:</li> <li>Indentation for IE's in 9.2.2.y was undone;</li> <li>Wording in Cell Setup &amp; Cell Reconfiguration procedures was aligned to similar paragraphs;</li> <li>In addition, the following changes were made to the CR:</li> <li>An additional clarification was made in the Cell Reconfiguration procedure</li> <li>ASN.1 was added.</li> </ul>						
the allocation of the ASN1 id's, no changes are made compared to RAN3#2 R3-013362 and R3-020121.							
Summary of change: # - Introduction of a maximum PDSCH power in Cell Setup and Cell Reconfiguration procedures;							
Consequences if # not approved:	Limited control of maximum PDSCH power.						
Clauses affected: #	8.2.12.2, 8.2.13.2, 9.1.24.1, 9.1.27.1, 9.2.2.x (new), 9.3.3, 9.3.4, 9.3.6						
Other specs % affected:	Other core specifications#Test specificationsO&M Specifications						
Other comments: #	Note that due to the general working assumption that the CRNC is aware of the capabilities of a Node-B, no activation flag is proposed in the concerning response messages.						

## How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G_Specs/CRs.htm</u>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked **#** contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <u>ftp://ftp.3gpp.org/specs/</u> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

# 8.2.12 Cell Setup

## 8.2.12.1 General

This procedure is used to set up a cell in Node B. The CRNC takes the cell, identified via the *C-ID* IE, into service and uses the resources in Node B identified via the *Local Cell ID* IE.

# 8.2.12.2 Successful Operation



## Figure 11: Cell Setup procedure, Successful Operation

The procedure is initiated with a CELL SETUP REQUEST message sent from CRNC to Node B. Upon Reception, the Node B shall reserve the necessary resources and configure the new cell according to the parameters given in the message.

[FDD - If the CELL SETUP REQUEST message includes one or more *Secondary CPICH Information* IE the Node B shall configure and activate the Secondary CPICH(s) in the cell according to received configuration data.]

The *Maximum Transmission Power* IE value shall be stored in the Node B and at any instance of time the total maximum output power in the cell shall not be above this value.

[FDD - If the *Closed Loop Timing Adjustment Mode* IE is included in the CELL SETUP REQUEST message, the value shall be stored in the Node B and applied when closed loop Feed-Back mode diversity is used on DPCH.]

[TDD - If the *Reference SFN offset* IE is included in the CELL SETUP REQUEST message, Node B where a reference clock is connected shall consider the SFN derived from the synchronisation port and the reference offset for reference time setting. All other Node B shall ignore the *Reference SFN offset* IE if included.]

If the *IPDL Parameter Information* IE is included in the CELL SETUP REQUEST message, the parameters defining IPDL shall be stored in the Node B and applied according to the *IPDL Indicator* IE value.

When the cell is successfully configured the Node B shall store the *Configuration Generation ID* IE value and send a CELL SETUP RESPONSE message as a response.

[FDD - When the cell is successfully configured CPICH(s), Primary SCH, Secondary SCH, Primary CCPCH and BCH exist.][3.84Mcps TDD - When the cell is successfully configured SCH, Primary CCPCH and BCH exist and the switching-points for the 3.84Mcps TDD frame structure are defined.] [1.28Mcps TDD - When the cell is successfully configured, DwPCH, Primary CCPCH and BCH exist and the switching-points for the 1.28Mcps TDD frame structure are defined.] The cell and the channels shall be set to state Enabled [6].

[FDD – If the CELL SETUP REQUEST message includes the *Maximum PDSCH Power* IE, the Node B shall, if supported, store the values in the Node B and apply the indicated maximum power levels to the PDSCH.]

# 8.2.13 Cell Reconfiguration

## 8.2.13.1 General

This procedure is used to reconfigure a cell in Node B.

## 8.2.13.2 Successful Operation



## Figure 12: Cell Reconfiguration procedure, Successful Operation

The procedure is initiated with a CELL RECONFIGURATION REQUEST message sent from CRNC to Node B. Upon Reception, the Node B shall reconfigure the cell according to the parameters given in the message.

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary SCH Information* IE the Node B shall reconfigure Primary SCH power in the cell according to *Primary SCH Power* IE value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Secondary SCH Information* IE the Node B shall reconfigure Secondary SCH power in the cell according to the *Secondary SCH Power* IE value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CPICH Information* IE the Node B shall reconfigure Primary CPICH power in the cell according to the *Primary CPICH Power* IE value. Node B shall adjust all the transmitted power levels relative to the Primary CPICH power according to the new value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes one or more *Secondary CPICH Information* IE the Node B shall reconfigure the power for each Secondary CPICH in the cell according to their *Secondary CPICH Power* IE value.]

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *SCH Information* IE the Node B shall reconfigure SCH power in the cell according to the *SCH Power* IE value.]

[3.84Mcps TDD - If the CELL RECONFIGURATION REQUEST message includes the *Timing Advance Applied* IE the Node B shall apply the necessary functions for Timing Advance in that cell including reporting of the Rx Timing Deviation measurement, according to the *Timing Advance Applied* IE value.]

[FDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CCPCH Information* IE the Node B shall reconfigure BCH power in the cell according to the *BCH Power* IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *Primary CCPCH Information* IE the Node B shall reconfigure P-CCPCH power in the cell according to the *P-CCPCH Power* IE value. Node B shall adjust all the transmitted power levels relative to the Primary CPPCH power according to the new value.]

If the CELL RECONFIGURATION REQUEST message includes the *Maximum Transmission Power* IE the value shall be stored in the Node B and at any instance of time the total maximum output power in the cell shall not be above this value.

[TDD - If the CELL RECONFIGURATION REQUEST message includes the *Timeslot Information* IE the Node B shall reconfigure switching-point structure in the cell according to the *Timeslot* IE value.]

[TDD - If the CELL RECONFIGURATION REQUEST message includes any of the *Constant Value* IEs, the Node B shall use these values when generating the appropriate SIB.]

If the CELL RECONFIGURATION REQUEST message includes the *IPDL Parameter Information* IE with the *IPDL Indicator* IE having the value 'active' the Node B shall apply the IPDL in that cell according the latest downloaded parameters defined by the *IPDL FDD Parameters* IE / *IPDL TDD Parameters* IE.

If the CELL RECONFIGURATION REQUEST message includes *IPDL Parameter Information* IE with *the IPDL Indicator* IE having the value 'inactive' the Node B shall deactivate the ongoing IPDL.

When the cell is successfully reconfigured the Node B shall store the new *Configuration Generation ID* IE value and send a CELL RECONFIGURATION RESPONSE message as a response.

If the CELL RECONFIGURATION REQUEST message includes the *Synchronisation Configuration* IE the Node B shall reconfigure the indicated parameters in the cell according to the IE value. When the parameters in the *Synchronisation Configuration* IE affect the thresholds applied to a RL set, the Node B shall immediately apply the new thresholds. When applying the new thresholds the Node B shall not change the state or value of any of the timers and counters for which the new thresholds apply.

[FDD – If the CELL RECONFIGURATION REQUEST message includes the *Maximum PDSCH Power* IE, the Node B shall, if supported, store the values in the Node B and apply the indicated maximum power levels to the PDSCH. For spreading factors for which a maximum PDSCH power level was already configured and the CELL RECONFIGURATION REQUEST does not provide a new value for the concerning spreading factor, the Node-B shall continue to use the existing value.]

# 9.1.24.1 FDD Message

IE/Group Name	Presence	Range	IE type and Reference	Semantics description	Criticality	Assigned Criticality
Message Discriminator	М		9.2.1.45		-	
Message Type	М		9.2.1.46		YES	reject
Transaction ID	М		9.2.1.62		_	
Local Cell ID	Μ		9.2.1.38		YES	reject
C-ID	Μ		9.2.1.9		YES	reject
Configuration Generation ID	Μ		9.2.1.16		YES	reject
T Cell	Μ		9.2.2.49		YES	reject
UARFCN	Μ		9.2.1.65	Corresponds to Nu [14]	YES	reject
UARFCN	М		9.2.1.65	Corresponds to Nd [14]	YES	reject
Maximum Transmission	М		9.2.1.40		YES	reject
-------------------------	----------	-------------------------------------------------------------------------	----------------	---	------	---------------
Power	-					
Closed Loop Timing	0		9.2.2.2A		YES	reject
Adjustment Mode						
Primary Scrambling Code	M		9.2.2.34		YES	reject
Synchronisation		1			YES	reject
			0.0.4.474			
>N_INSYNC_IND	M		9.2.1.47A			
>N_OUISYNC_IND	M		9.2.1.47B			
>I_RLFAILURE	M		9.2.1.56A			
DL TPC pattern 01 count	М		9.2.2.13A		YES	reject
Primary SCH Information	• •	1			YES	reject
>Common Physical	M		9.2.1.13		-	
Primary SCH Power	M					
			92121			
>TSTD Indicator	М		92164		_	
Secondary SCH	101	1	0.2.1.01		YES	reject
Information		•			120	10,000
>Common Physical	М		92113			
Channel ID			0.2.1.10			
>Secondary SCH power	М		DI Power			
			92121			
>TSTD Indicator	М		92164			
Primary CPICH	101	1	0.2.1.01		YES	reject
Information		•			120	Tejeet
>Common Physical	М		92113		_	
Channel ID	101		0.2.1.10			
>Primary CPICH power	М		92233			
>Transmit Diversity	M		92253			
Indicator			0.2.2.00			
Secondary CPICH		0 <maxsc< td=""><td></td><td></td><td>FACH</td><td>reject</td></maxsc<>			FACH	reject
Information		PICHCell>				
>Common Physical	М		9.2.1.13		_	
Channel ID						
>DL Scrambling code	М		9.2.2.13		_	
>FDD DL Channelisation	Μ		9.2.2.14		_	
Code Number						
>Secondary CPICH Power	Μ		DL Power		_	
			9.2.1.21			
>Transmit Diversity	Μ		9.2.2.53		_	
Indicator						
Primary CCPCH		1			YES	reject
Information						
>Common Physical	Μ		9.2.1.13		_	
Channel ID						
>BCH Information		1			_	
>>Common Transport	Μ		9.2.1.14		-	
Channel ID						
>>BCH Power	M		DL Power			
			9.2.1.21			
>STTD Indicator	Μ		9.2.2.48		_	
Limited power increase		1			YES	reject
information						
>Power_Raise_Limit	Μ		9.2.2.29A		_	
>DL_power_averaging_wi	Μ		9.2.2.12A		_	
ndow_size						
IPDL Parameter		01	$ $ $\neg$	T	YES	reject
Information						
>IPDL FDD Parameters	Μ		9.2.2.18C		_	
>IPDL Indicator	Μ		9.2.1.36F		_	
PDSCH information		<u>01</u>			YES	<u>reject</u>
>Maximum PDSCH Power	<u>0</u>		<u>9.2.2.y</u>		=	
			,			

Range bound	Explanation

MaxSCPICHCell	Maximum number of Secondary CPICH that can be
	defined in a Cell.

# 9.1.27 CELL RECONFIGURATION REQUEST

## 9.1.27.1 FDD Message

IE/Group Name	Presence	Range	IE type	Semantics	Criticality	Assigned
			and	description		Criticality
Message Discriminator	М		9.2.1.45		_	
Message Type	M		9.2.1.46		YES	reiect
Transaction ID	M		9.2.1.62		_	
C-ID	M		9219		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
Maximum Transmission	0		9.2.1.40		YES	reject
Power	-					
Synchronisation		0,1			YES	reject
Configuration						-
>N_INSYNC_IND	М		9.2.1.47A		_	
>N_OUTSYNC_IND	М		9.2.1.47B		—	
>T_RLFAILURE	Μ		9.2.1.56A		—	
Primary SCH Information		0,1			YES	reject
>Common Physical Channel ID	Μ		9.2.1.13		_	
>Primary SCH power	М		DL Power 9.2.1.21		_	
Secondary SCH Information		0,1			YES	reject
>Common Physical Channel ID	М		9.2.1.13		_	
>Secondary SCH power	М		DL Power 9.2.1.21		-	
Primary CPICH		0,1			YES	reject
Information						-
>Common Physical	М		9.2.1.13		—	
Channel ID						
>Primary CPICH power	М		9.2.2.33		_	
Secondary CPICH Information		0 <i><maxsc< i=""> PICHCell&gt;</maxsc<></i>			YES	reject
>Common Physical Channel ID	Μ		9.2.1.13		_	
>Secondary CPICH Power	М		DL Power 9.2.1.21		—	
Primary CCPCH Information		0,1			YES	reject
>BCH Information		1			_	
>>Common Transport Channel ID	М		9.2.1.14		_	
>>BCH Power	М		DL Power 9.2.1.21		-	
IPDL Parameter		01			YES	reject
Information						-
>IPDL FDD Parameters	0		9.2.2.18C		_	
>IPDL Indicator	М		9.2.1.36F		_	
PDSCH information		<u>01</u>			YES	<u>reject</u>
>Maximum PDSCH Power	<u>0</u>		<u>9.2.2.y</u>		=	

Range bound	Explanation		
MaxSCPICHCell	Maximum number of Secondary CPICH that can be		
	defined in a Cell.		

#### 9.2.2.y Maximum PDSCH Power

The *Maximum PDSCH Power* IE can contain for each a PDSCH SF a maximum PDSCH power. The maximum PDSCH power shall be applied for each individual channelisation code at the concerning SF when used for a PDSCH.

IE/Group Name	Presence	<u>Range</u>	IE type and reference	Semantics description
Maximum PDSCH Power SF4	<u>0</u>		DL Power 9.2.1.21	
Maximum PDSCH Power SF8	<u>0</u>		<u>DL Power</u> 9.2.1.21	
Maximum PDSCH Power SF16	<u>0</u>		<u>DL Power</u> 9.2.1.21	
Maximum PDSCH Power SF32	<u>0</u>		DL Power 9.2.1.21	
Maximum PDSCH Power SF64	<u>0</u>		<u>DL Power</u> 9.2.1.21	
Maximum PDSCH Power SF128	<u>0</u>		DL Power 9.2.1.21	
Maximum PDSCH Power SF256	<u>0</u>		DL Power 9.2.1.21	

### 9.3.3 PDU Definitions

-- PDU definitions for NBAP.

NBAP-PDU-Contents {
 itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
 umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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_ _

// partly skipped

Local-Cell-ID, MaximumDL-PowerCapability, Maximum-PDSCH-Power, MaximumTransmissionPower, Max-Number-of-PCPCHes,

// partly skipped

id-PCPCH-Information, id-PICH-ParametersItem-CTCH-ReconfRqstFDD, id-PDSCH-Information-AddListIE-PSCH-ReconfRqst, id-PDSCH-Information-Cell-SetupRqstFDD, id-PDSCH-Information-Cell-ReconfRqstFDD, id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst, id-PDSCHSets-AddList-PSCH-ReconfRqst, id-PDSCHSets-DeleteList-PSCH-ReconfRqst,

_ _ -- CELL SETUP REQUEST FDD ____ CellSetupRequestFDD ::= SEQUENCE { {{CellSetupRequestFDD-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{CellSetupRequestFDD-Extensions}} OPTIONAL. . . . CellSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= { { ID id-Local-Cell-ID CRITICALITY reject TYPE Local-Cell-ID PRESENCE mandatory }| { ID id-C-ID CRITTCALTTY reject TYPE C-ID PRESENCE mandatory }| { ID id-ConfigurationGenerationID CRITICALITY reject TYPE ConfigurationGenerationID PRESENCE mandatory }| { ID id-T-Cell reject TYPE T-Cell CRITICALITY PRESENCE mandatory - } | { ID id-UARFCNforNu CRITICALITY reject TYPE UARFCN PRESENCE mandatorv }| { ID id-UARFCNforNd CRITICALITY reiect TYPE UARFCN PRESENCE mandatory }| { ID id-MaximumTransmissionPower CRITICALITY reject TYPE MaximumTransmissionPower PRESENCE mandatory } id-Closed-Loop-Timing-Adjustment-Mode { ID CRITICALITY reject TYPE Closedlooptimingadjustmentmode PRESENCE optional }| { ID id-PrimaryScramblingCode CRITICALITY reject TYPE PrimaryScramblingCode PRESENCE mandatory } id-Synchronisation-Configuration-Cell-SetupRqst CRITICALITY TYPE Synchronisation-{ ID reject Configuration-Cell-SetupRqst mandatory }| PRESENCE { ID id-DL-TPC-Pattern01Count CRITICALITY reject TYPE DL-TPC-Pattern01Count PRESENCE mandatory }| { ID id-PrimarySCH-Information-Cell-SetupRqstFDD CRITICALITY reject TYPE PrimarySCH-Information-Cell-SetupRqstFDD PRESENCE mandatory }| id-SecondarySCH-Information-Cell-SetupRqstFDD { ID CRITICALITY reject TYPE SecondarySCH-Information-Cell-SetupRqstFDD PRESENCE mandatory }| { ID id-PrimaryCPICH-Information-Cell-SetupRqstFDD CRITICALITY reject TYPE PrimaryCPICH-Information-Cell-SetupRqstFDD PRESENCE mandatory }| { ID id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD CRITICALITY reject TYPE SecondaryCPICH-InformationList-Cell-SetupRqstFDD }| PRESENCE optional id-PrimaryCCPCH-Information-Cell-SetupRqstFDD TYPE PrimaryCCPCH-Information-{ ID CRITICALITY reject Cell-SetupRqstFDD PRESENCE mandatory }| id-Limited-power-increase-information-Cell-SetupRqstFDD CRITICALITY TYPE Limited-power-increase-{ ID reject information-Cell-SetupRqstFDD PRESENCE mandatory },

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CellSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {

```
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    {ID id-IPDLParameter-Information-Cell-SetupRqstFDD
                                                                                                                          IPDLParameter-Information-
                                                                      CRITICALITY
                                                                                      reject
                                                                                                   EXTENSION
Cell-SetupRqstFDD
                        PRESENCE
                                     optional
                                                 },
   {ID id-PDSCH-Information-Cell-SetupRqstFDD
                                                                                                    PDSCH-Information-Cell-SetupRqstFDD
                                                          CRITICALITY
                                                                        reject
                                                                                     EXTENSION
                                                                                                                                            PRESENCE
  optional },
    . . .
Synchronisation-Configuration-Cell-SetupRqst ::= SEQUENCE
                            N-INSYNC-IND,
    n-INSYNC-IND
    n-OUTSYNC-IND
                            N-OUTSYNC-IND,
    t-RLFAILURE
                            T-RLFAILURE,
                            ProtocolExtensionContainer { { Synchronisation-Configuration-Cell-SetupRqst-ExtIEs } }
    iE-Extensions
                                                                                                                          OPTIONAL,
    . . .
Synchronisation-Configuration-Cell-SetupRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PrimarySCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                             CommonPhysicalChannelID,
    primarySCH-Power
                                             DL-Power,
    tSTD-Indicator
                                             TSTD-Indicator,
    iE-Extensions
                                             ProtocolExtensionContainer { { PrimarySCH-Information-Cell-SetupRqstFDD-ExtIEs } }
                                                                                                                                      OPTIONAL.
    . . .
PrimarySCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
SecondarySCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                             CommonPhysicalChannelID,
    secondarySCH-Power
                                             DL-Power,
    tSTD-Indicator
                                             TSTD-Indicator,
                                             ProtocolExtensionContainer { { SecondarySCH-Information-Cell-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                      OPTIONAL,
    . . .
SecondarySCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PrimaryCPICH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                             CommonPhysicalChannelID,
    primaryCPICH-Power
                                             PrimaryCPICH-Power,
    transmitDiversityIndicator
                                             TransmitDiversityIndicator,
                                             ProtocolExtensionContainer { { PrimaryCPICH-Information-Cell-SetupRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                      OPTIONAL,
    . . .
PrimaryCPICH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
```

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```
SecondaryCPICH-InformationList-Cell-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container{{ SecondaryCPICH-
InformationItemIE-Cell-SetupRqstFDD }}
SecondaryCPICH-InformationItemIE-Cell-SetupRgstFDD NBAP-PROTOCOL-IES ::= {
    { ID
           id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD
                                                                     CRITICALITY
                                                                                      reject
                                                                                                                      TYPE SecondaryCPICH-
InformationItem-Cell-SetupRgstFDD
                                        PRESENCE
                                                     mandatory }
SecondaryCPICH-InformationItem-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    dl-ScramblingCode
                                            DL-ScramblingCode,
    fDD-DL-ChannelisationCodeNumber
                                            FDD-DL-ChannelisationCodeNumber.
    secondaryCPICH-Power
                                            DL-Power,
    transmitDiversitvIndicator
                                            TransmitDiversitvIndicator,
                                             ProtocolExtensionContainer { { SecondaryCPICH-InformationItem-Cell-SetupRgstFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
SecondaryCPICH-InformationItem-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PrimaryCCPCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    bCH-information
                                            BCH-Information-Cell-SetupRgstFDD,
    sTTD-Indicator
                                            STTD-Indicator,
    iE-Extensions
                                            ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cell-SetupRqstFDD-ExtIEs } }
                                                                                                                                     OPTIONAL,
    . . .
PrimaryCCPCH-Information-Cell-SetupRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
BCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                            CommonTransportChannelID,
    bCH-Power
                                            DL-Power,
    iE-Extensions
                                            ProtocolExtensionContainer { { BCH-Information-Cell-SetupRqstFDD-ExtIEs} }
                                                                                                                           OPTIONAL,
    . . .
BCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
Limited-power-increase-information-Cell-SetupRqstFDD ::= SEQUENCE {
                                            PowerRaiseLimit,
    powerRaiseLimit
    dLPowerAveragingWindowSize
                                             DLPowerAveragingWindowSize
    iE-Extensions
                                             ProtocolExtensionContainer { { Limited-power-increase-information-Cell-SetupRqstFDD-ExtIEs } }
    OPTIONAL,
    . . .
```

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```
Limited-power-increase-information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
IPDLParameter-Information-Cell-SetupRqstFDD::= SEQUENCE {
    iPDL-FDD-Parameters
                                            IPDL-FDD-Parameters,
    iPDL-Indicator
                                            IPDL-Indicator,
   iE-Extensions
                                         ProtocolExtensionContainer { { IPDLParameter-Information-Cell-SetupRqstFDD-ExtIEs } }
                                                                                                                            OPTIONAL,
    . . .
IPDLParameter-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
PDSCH-Information-Cell-SetupRqstFDD ::= SEQUENCE {
  maximum-PDSCH-Power Maximum-PDSCH-Power,
  iE-Extensions
                      ProtocolExtensionContainer { { PDSCH-Information-Cell-SetupRqstFDD-ExtIEs } }
                                                                                                OPTIONAL.
   . . .
PDSCH-Information-Cell-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
   . . .
// partly skipped
  _ _
-- CELL RECONFIGURATION REQUEST FDD
CellReconfigurationRequestFDD ::= SEQUENCE {
   protocolIEs
                         ProtocolIE-Container
                                                {{CellReconfigurationRequestFDD-IEs}},
                          ProtocolExtensionContainer {{CellReconfigurationRequestFDD-Extensions}}
   protocolExtensions
                                                                                                              OPTIONAL,
    . . .
CellReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID
          id-C-ID
                                                                                                            C-ID
                                                               CRITICALITY reject
                                                                                         TYPE
       PRESENCE
                  mandatory }|
           id-ConfigurationGenerationID
                                                               CRITICALITY reject
                                                                                                            ConfigurationGenerationID
    { ID
                                                                                         TYPE
               PRESENCE mandatory }
    { ID
           id-MaximumTransmissionPower
                                                               CRITICALITY reject
                                                                                         TYPE
                                                                                                            MaximumTransmissionPower
               PRESENCE
                         optional }|
           id-Synchronisation-Configuration-Cell-ReconfRqst
                                                                                                            Synchronisation-Configuration-
    { ID
                                                               CRITICALITY
                                                                              reject
                                                                                         TYPE
Cell-ReconfRqst
                  PRESENCE optional
                                        }|
```

}

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{ ID id-PrimarySCH-Information-Cell-	ReconfRqstFDD	CRITICALITY reject	TYPE	PrimarySCH-Information-Cell-
ReconfRqstFDD PRESENCE optiona { ID id-SecondarySCH-Information-Cel ReconfRqstFDD PRESENCE optiona	1 }  1-ReconfRqstFDD	CRITICALITY reject	TYPE	SecondarySCH-Information-Cell-
{ ID id-PrimaryCPICH-Information-Cel ReconfRgstFDD PRESENCE optiona	l-ReconfRqstFDD l }	CRITICALITY reject	TYPE	PrimaryCPICH-Information-Cell-
{ ID id-SecondaryCPICH-InformationLi	st-Cell-ReconfRqstFDD	CRITICALITY reject	TYPE	SecondaryCPICH-InformationList-
{ ID id-PrimaryCCPCH-Information-Cel ReconfRqstFDD PRESENCE optiona	l }  l-ReconfRqstFDD l },	CRITICALITY reject	TYPE	PrimaryCCPCH-Information-Cell-
}				
CellReconfigurationRequestFDD-Extensions NB {ID id-IPDLParameter-Information-Cell-R Cell-ReconfRqstFDD PRESENCE optiona {ID id-PDSCH-Information-Cell-ReconfRq PDFCENCE entional	AP-PROTOCOL-EXTENSION : econfRqstFDD l }, stFDD CRITICA	:= { CRITICALITY reject LITY reject EXTENSION	EXTENSION N PDSCH-Informat	IPDLParameter-Information-
<pre>PRESENCE OPLIONAL }, }</pre>				
Synchronisation-Configuration-Cell-ReconfRq n-INSYNC-IND N-INSYNC-IND, n-OUTSYNC-IND N-OUTSYNC-IND, t-RLFAILURE T-RLFAILURE, iE-Extensions ProtocolExtensi	st ::= SEQUENCE { onContainer { { Synchron	nisation-Configuration-Cell-	ReconfRqst-ExtIEs} }	OPTIONAL,
}				
<pre>Synchronisation-Configuration-Cell-ReconfRq  }</pre>	st-ExtIES NBAP-PROTOCOL	-EXTENSION ::= {		
<pre>PrimarySCH-Information-Cell-ReconfRqstFDD :     commonPhysicalChannelID     primarySCH-Power     iE-Extensions  }</pre>	:= SEQUENCE { CommonPhysicalChannelII DL-Power, ProtocolExtensionConta:	D, iner { { PrimarySCH-Informat	ion-Cell-ReconfRqstF	DD-ExtIEs} } OPTIONAL,
PrimarySCH-Information-Cell-ReconfRgstFDD-E	XTIES NBAP-PROTOCOL-EXT	ENSION ::= {		
}		,		
<pre>SecondarySCH-Information-Cell-ReconfRqstFDD     commonPhysicalChannelID     secondarySCH-Power     iE-Extensions  }</pre>	::= SEQUENCE { CommonPhysicalChannelII DL-Power, ProtocolExtensionConta:	D, iner { { SecondarySCH-Inform	ation-Cell-ReconfRqs	tFDD-ExtIEs} } OPTIONAL,
SecondarySCH-Information-Cell-ReconfRqstFDD	-ExtIEs NBAP-PROTOCOL-E2	XTENSION ::= {		

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```

}

```
PrimaryCPICH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                            CommonPhysicalChannelID,
    primaryCPICH-Power
                                            PrimaryCPICH-Power,
                                            ProtocolExtensionContainer { { PrimaryCPICH-Information-Cell-ReconfRqstFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                        OPTIONAL,
    . . .
PrimaryCPICH-Information-Cell-ReconfRgstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
SecondaryCPICH-InformationList-Cell-ReconfRgstFDD ::= SEOUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container{{ SecondaryCPICH-
InformationItemIE-Cell-ReconfRqstFDD }}
SecondaryCPICH-InformationItemIE-Cell-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID
           id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD
                                                                         CRITICALITY
                                                                                          reject
                                                                                                                         TYPE SecondaryCPICH-
InformationItem-Cell-ReconfRqstFDD
                                        PRESENCE
                                                     mandatory }
SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID
                                                CommonPhysicalChannelID,
    secondaryCPICH-Power
                                                 DL-Power,
    iE-Extensions
                                                 ProtocolExtensionContainer { { SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD-ExtIEs} }
    OPTIONAL,
    . . .
SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
PrimaryCCPCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE {
    bCH-information
                                            BCH-information-Cell-ReconfRqstFDD,
    iE-Extensions
                                            ProtocolExtensionContainer { { PrimaryCCPCH-Information-Cell-ReconfRqstFDD-ExtIEs } }
                                                                                                                                        OPTIONAL,
    . . .
PrimaryCCPCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
BCH-information-Cell-ReconfRqstFDD ::= SEQUENCE {
    commonTransportChannelID
                                            CommonTransportChannelID,
    bCH-Power
                                            DL-Power,
    iE-Extensions
                                            ProtocolExtensionContainer { { BCH-information-Cell-ReconfRqstFDD-ExtIEs } }
                                                                                                                               OPTIONAL,
    . . .
BCH-information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
```

IPDLParameter-Information-Cell-ReconfRqstFDD::= SEQUENCE { iPDL-FDD-Parameters IPDL-FDD-Parameters OPTIONAL, iPDL-Indicator IPDL-Indicator, iE-Extensions ProtocolExtensionContainer { { IPDLParameter-Information-Cell-ReconfRqstFDD-ExtIEs } } OPTIONAL, . . . IPDLParameter-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . } PDSCH-Information-Cell-ReconfRqstFDD ::= SEQUENCE { maximumPDSCH-Power Maximum-PDSCH-Power, ProtocolExtensionContainer { { PDSCH-Information-Cell-ReconfRqstFDD-ExtIEs } } iE-Extensions OPTIONAL, . . . } PDSCH-Information-Cell-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { . . . }

## 9.3.4 Information Elements Definitions

// partly skipped

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MaximumDL-PowerCapability ::= INTEGER(0500)	
Unit dBm, Range 0dBm 50dBm, Step +0.1dB	
Maximum-PDSCH-Power ::= SEQUENCE {	
maximum-PDSCH-Power-SF4 DL-Power OPTIONAL,	
maximum-PDSCH-Power-SF8 DL-Power OPTIONAL,	
maximum-PDSCH-Power-SF16 DL-Power OPTIONAL,	
maximum-PDSCH-Power-SF32 DL-Power OPTIONAL,	
maximum-PDSCH-Power-SF64 DL-Power OPTIONAL,	
maximum-PDSCH-Power-SF128 DL-Power OPTIONAL,	
maximum-PDSCH-Power-SF256 DL-Power OPTIONAL,	
iE-Extensions ProtocolExtensionContainer { { Maximum-PDSCH-Power-ExtIEs } }	OPTIONAL,
Maximum-PDSCH-Power-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {	

MaximumTransmissionPower ::= INTEGER(0..500) -- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB

## 9.3.6 Constant Definitions

// partly skipped

id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst	ProtocolIE-ID	::=	487
id-PDSCH-Information-Cell-SetupRqstFDD	ProtocolIE-ID	::=	26
id-PDSCH-Information-Cell-ReconfRqstFDD	ProtocolIE-ID	::=	27