## TSG RAN Meeting #28 Quebec, Canada, 01 - 03 June 2005 Title CRs (Rel-5 & Rel-6) for the removal of DRAC

SourceTSG RAN WG3Agenda Item7.7.7

RAN3 Tdoc	Spec	CR	Rev	Cat	curr. Vers.	new Vers.	Rel	Work item	Title
R3-050497	25.931	28		С	5.1.0	5.2.0	Rel-5	TEI5	Feature Cleanup: Removal of DRAC
R3-050498	25.931	29		С	6.1.0	6.2.0	Rel-6	TEI5	Feature Cleanup: Removal of DRAC
R3-050730	25.423	1056	1	С	5.13.0	5.14.0	Rel-5	TEI5	Feature Cleanup: Removal of DRAC
R3-050731	25.423	1057	1	С	6.5.0	6.6.0	Rel-6	TEI5	Feature Cleanup: Removal of DRAC

**RP-050223** 

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# 3.3 Abbreviations

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

A-GPS	Assisted-GPS
ALCAP	Access Link Control Application Part
ASN.1	Abstract Syntax Notation One
BER	Bit Error Rate
BLER	Block Error Rate
BSS	Base Station Subsystem
CBSS	Controlling BSS
CCCH	Common Control Channel
CCPCH	Common Control Physical Channel
CCTrCH	Coded Composite Transport Channel
CFN	Connection Frame Number
C-ID	Cell Identifier
CM	Compressed Mode
CN	Core Network
СРСН	Common Packet Channel
CPICH	Common Pilot Channel
CRNC	Controlling RNC
DBSS	Drift BSS
C-RNTI	Cell Radio Network Temporary Identifier
CS	Circuit Switched
CJ CTEC	Calculated Transport Format Combination DCH Dedicated Channel
DGPS	Differential GDS
DOL2	Downlink
	Downlink Downlink Dowor Control
DPCCH	Dowinink Fower Control Channel
DPCU	Dedicated Physical Control Channel
	Dedicated Physical Otta Channel
	Dedicated Physical Data Channel
DRAC	Duite DNC
DRINC	DIIII KINC
DKNS D DNTI	Dilit KNS Drift Dadia Naturali Tampanan Idantifian
D-KN11	Diffic Radio Network Temporary Identifier
DKA	Discontinuous Reception
Ба	Downink Shared Channel
EC	Energy in single Code
EDSCHPC	Ennanced Downlink Snared Channel Power Control
EP	Elementary Procedure
FACH	Forward Access Channel
FDD	Frequency Division Duplex
FN	Frame Number
FP	Frame Protocol
GERAN	GSM EDGE Radio Access Network
GA	Geographical Area
GAI	Geographical Area Identifier
GPS	Global Positioning System
GRA	GERAN Registration Area
GSM	Global System Mobile
HSDPA	High Speed Downlink Packet Access
HW	Hardware
IB	Information Block
ID	Identity or Identifier
IE	Information Element
IMSI	International Mobile Subscriber Identity
IP	Internet Protocol
IPDL	Idle Period DownLink
ISCP	Interference Signal Code Power
LAC	Location Area Code
LCR	Low Chip Rate (1.28 Mcps)

LCS	Location Services
MAC	Medium Access Control
MS	Mobile Station
NAS	Non Access Stratum
No	Reference Noise
NRT	Non Real Time
O&M	Operation and Maintenance
P(_)CCPCH	Primary CCPCH
	Paging Channel
OTD	Charge d Time Difference
	Discrete The Difference
P(-)CPICH	Primary CPICH
РСРСН	Physical Common Packet Channel
PCS	Personal Communication Services
PDSCH	Physical Downlink Shared Channel
PDU	Protocol Data Unit
PhCH	Physical Channel
PICH	Paging Indication Channel
Pos	Position or Positioning
PRACH	Physical Random Access Channel
PS	Packet Switched
OF Contraction of the second s	Quality Estimate
	Quality Estimate
RAC	Routing Area Code
RACH	Random Access Channel
RAN	Radio Access Network
RANAP	Radio Access Network Application Part
RB	Radio Bearer
RL	Radio Link
RLC	Radio Link Control
RLS	Radio Link Set
RM	Rate Matching
RNC	Radio Network Controller
RNS	Radio Network Subsystem
	Padio Network Subsystem Application Part
NINGAE	Radio Network Subsystem Application Part
RNII	Radio Network Temporary Identifier
RRC	Radio Resource Control
RT	Real Time
RSCP	Received Signal Code Power
SBSS	Serving BSS
Rx	Receive or Reception
Sat	Satellite
SCCP	Signalling Connection Control Part
S(-)CCPCH	Secondary CCPCH
SCH	Synchronisation Channel
SCTD	Space Code Transmit Diversity
SDU	Service Data Unit
SE	Sustam Frame
SEN	System Frame Number
SLICCH	System Frame Number
SHUCH	Shared Control Channel
SIR	Signal-to-Interference Ratio
SNA	Shared Network Area
SRB2	Signalling radio bearer 2
SRNC	Serving RNC
SRNS	Serving RNS
S-RNTI	Serving Radio Network Temporary Identifier
SSDT	Site Selection Diversity Transmission
STTD	Space Time Transmit Diversity
TDD	Time Division Dupley
TE	Transport Format
TECI	Transport Format Combination Indicator
TECS	Transport Format Combination Indicator
IFCS	ransport Format Combination Set
TFS	Transport Format Set
TGCFN	Transmission Gap Connection Frame Number

ToAWE	Time of Arrival Window Endpoint
ToAWS	Time of Arrival Window Startpoint
TPC	Transmit Power Control
TrCH	Transport Channel
TS	Time Slot
TSG	Technical Specification Group
TSTD	Time Switched Transmit Diversity
TTI	Transmission Time Interval
TX	Transmit or Transmission
UARFCN	UTRA Absolute Radio Frequency Channel Number
UDP	User Datagram Protocol
UC-ID	UTRAN Cell Identifier
UE	User Equipment
UL	Uplink
UMTS	Universal Mobile Telecommunications System
URA	UTRAN Registration Area
U-RNTI	UTRAN Radio Network Temporary Identifier
USCH	Uplink Shared Channel
UTRA	Universal Terrestrial Radio Access
UTRAN	Universal Terrestrial Radio Access Network

### UNAFFECTED PARTS REMOVED

## 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 Radio Link Setup procedure is initiated with this RADIO LINK SETUP REQUEST message sent from the SRNC to the DRNC.

Upon receipt of the RADIO LINK SETUP REQUEST message, 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.

If the RADIO LINK SETUP REQUEST message includes the *Allowed Queuing Time* IE the DRNS may queue the request for a time period not to exceed the value of the *Allowed Queuing Time* IE before starting to execute the request.

#### UNAFFECTED PARTS REMOVED

#### General:

If the RADIO LINK SETUP REQUEST message includes the *RL Specific DCH Information* IE, the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs.

[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, S-Field Length IE and SSDT Cell Identity Length IE.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Qth Parameter* IE in addition to the *SSDT Cell Identity* IE, the DRNS shall use the *Qth Parameter* IE, if Qth signalling is supported, when SSDT is activated in the concerned new RL.]

[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 for EDSCHPC* IE, then the DRNS shall ignore the *SSDT Cell Identity for EDSCHPC* IE. If the enhanced DSCH power control is activated and the *TFCI PC Support Indicator* IE is set to "TFCI PC Mode 2 Supported", the primary/secondary status determination in the enhanced DSCH power control shall be applied to the TFCI power control in DSCH hard split mode.]

[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 include in the RADIO LINK SETUP RESPONSE message the Secondary CCPCH Info IE for the FACH in which 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 in the RADIO LINK SETUP RESPONSE message the *D-RNTI* IE, the *CN PS Domain Identifier* IE and/or the *CN CS Domain Identifier* IE for the CN domains (using LAC and RAC of the current cell) to which the DRNC is connected.

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

[TDD - If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *UARFCN* IE, the *Cell Parameter ID* IE and the *SCTD Indicator* IE.]

[3.84Mcps TDD - If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Sync Case* IE and if the *Sync Case* IE is set to "Case 2", the DRNC shall also include the *SCH Time Slot* IE in the RADIO LINK SETUP RESPONSE message. If the included *Sync Case* IE is set to "Case1", the DRNC shall also include the *Time Slot* For SCH IE.]

[3.84Mcps 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 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 the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[1.28 Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and at least one DCH is configured for the radio link. The

DRNC shall also include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* 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 in which at least one URA Identity is being broadcast, the DRNC shall include in the *URA Information* IE within the RADIO LINK SETUP RESPONSE message URA Information for this cell including 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-ID* IEsof all other RNCs that have at least one cell within the URA identified by the *URA ID* IE.

Depending on local configuration in the DRNS, the DRNC may include in the RADIO LINK SETUP RESPONSE message the *UTRAN Access Point Position* IE and the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE. If the DRNC includes the *Cell GA Additional Shapes* IE in the RADIO LINK SETUP RESPONSE message, it shall also include the *Cell GAI* IE.

If the DRNS need to limit the user rate in the uplink of a DCH due to congestion caused by the UL UTRAN Dynamic Resources (see subclause 9.2.1.79) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Allowed UL Rate* IE in the *DCH Information Response* IE for this Radio Link.

If the DRNS need to limit the user rate in the downlink of a DCH due to congestion caused by the DL UTRAN Dynamic Resources (see subclause 9.2.1.79) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Allowed DL Rate* IE in the *DCH Information Response* IE 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 DRNS 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 - If the accessed cell supports TFCI power control, the DRNC shall include the *TFCI PC Support Indicator* IE in the RADIO LINK SETUP RESPONSE message.]

The DRNS shall start receiving on the new RL(s) after the RLs are successfully established.

#### UNAFFECTED PARTS REMOVED

## 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 concerned 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 receipt, 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.

### UNAFFECTED PARTS REMOVED

#### General:

If the RADIO LINK ADDITION REQUEST message includes the *RL Specific DCH Information* IE, the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs.

[FDD - If the RADIO LINK ADDITION REQUEST message contains an *SSDT Cell Identity* IE, the DRNS shall, if supported, activate SSDT for the concerned new RL using the indicated SSDT Cell Identity.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Qth Parameter* IE in addition to the *SSDT Cell Identity* IE, the DRNS shall use the *Qth Parameter* IE, if Qth signalling is supported, when SSDT is activated in the concerned new RL.]

Depending on local configuration in the DRNS, the DRNC may include in the RADIO LINK ADDITION RESPONSE message the *UTRAN Access Point Position* IE and the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE. If the DRNC includes the *Cell GA Additional Shapes* IE in the RADIO LINK ADDITION RESPONSE message, it shall also include the *Cell GAI* IE.

For each Radio Link established in a cell in which at least one URA Identity is being broadcast, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a URA Information for this cell including 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-ID* IEs of all other RNCs that have at least one cell within the URA identified by the *URA ID* IE.

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

[3.84Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD* 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 *Secondary CCPCH Info TDD* 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 the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[1.28 Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and the SHCCH Info TDD LCR IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* 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 lifetime 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 - If the accessed cell supports TFCI power control, the DRNC shall include the *TFCI PC Support Indicator* IE in the RADIO LINK ADDITION RESPONSE message.]

The DRNS shall start receiving on the new RL(s) after the RLs are successfully established.

### UNAFFECTED PARTS REMOVED

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## 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 receipt, 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, 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 *DCHs To Modify* IE contains a *DCH Specific Info* IE which 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 *DCHs To Modify* IE contains a *DCH Specific Info* IE which 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 may 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 DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which 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 *DCHs to Modify* IE includes the *TNL QoS* IE for a DCH or a set of co-ordinated DCHs to be modified and if ALCAP is not used, the DRNS may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply in the uplink for the related DCH or set of co-ordinated DCHs.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Allocation/Retention Priority* IE, the DRNS shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.
- [FDD—If the DCHs To Modify IE contains a DRAC Control IE set to "requested" and if the DRNS supports the DRAC, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the Secondary CCPCH Info IE for the FACH in which the DRAC information is sent, for each Radio Link established in a cell in which 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 *DCHs To Modify* IE includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH in the new configuration.]

- [TDD If the *DCHs To Modify* IE includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH in the new configuration.]
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which 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, 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 *DCH Information* IE includes a *DCHs To Add* IE with multiple *DCH Specific Info* IEs, 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.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.
- [TDD If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]
- [FDD For each DCH which do not belong to a set of co-ordinated DCHs and which includes a *QE-Selector* IE set to "selected", the DRNS shall use the Transport channel BER from that DCH for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. [4]. If the *QE-Selector* IE is set to "non-selected", the DRNS shall use the Physical channel BER for the QE in the UL data frames, ref. [4].]
- For a set of co-ordinated DCHs, the DRNS shall use the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" for the QE in the UL data frames, ref. [4]. [FDD If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. [4]. If all DCHs have the *QE-Selector* IE set to "non-selected", the DRNS shall use the Physical channel BER for the QE, ref. [4]. [TDD If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER 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 Uu interface in congestion situations within the DRNS once the new configuration has been activated.
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the DRNS may use this information to determine the transport bearer characteristics to apply for the uplink for the related DCH or set of co-ordinated DCHs.
- The DRNS should store the *Traffic Class* IE received for a DCH to be added in the new configuration. The *Traffic Class* IE may 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 DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".

- 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 Startpoint 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 Endpoint 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 in which the DRAC information is sent, for each radio link supported by a cell in which DRAC is active. If the DRNS does not support DRAC, the DRNC shall not provide these IEs in the RADIO LINK RECONFIGURATION READY
- If the *DCHs To Add* IE contains a *DCH Specific Info* IE which 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 *DCHs To Add* 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 *DCHs To Add* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the downlink of the DCH.
- [TDD The DRNS shall apply the *CCTrCH ID* IE (for the DL) in the Downlink of this DCH in the new configuration.]
- [TDD The DRNS shall apply the *CCTrCH ID* IE (for the UL) in the Uplink of this DCH in the new configuration.]

#### UNAFFECTED PARTS REMOVED

## 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 receipt, 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 *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes a *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 *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes a *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 *DCHs To Modify* IE contains a *DCH Specific Info* IE which 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 may 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. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the DRNS may use this information to determine the transport bearer characteristics to apply for the uplink for the related DCH or set of co-ordinated DCHs.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Allocation/Retention Priority* IE, the DRNS shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.
- [FDD If the DRAC Control IE is present and set to "requested" in DCHs To Modify IE for at least one DCH, and if the DRNS supports the DRAC, the DRNC shall include in the RADIO LINK RECONFIGURATION RESPONSE message the Secondary CCPCH Info IE for the FACH in which the DRAC information is sent, for each Radio Link supported by a cell in which DRAC is active.]
- [TDD If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH in the new configuration.]
- [TDD If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH in the new configuration.]
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which 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.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.
- [TDD If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]
- [FDD For each DCH which does not belong to a set of co-ordinated DCHs, and which includes a *QE-Selector* IE set to "selected", the DRNS shall use the Transport channel BER from that DCH for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel

BER for the QE, ref. [4]. If the *QE-Selector* IE is set to "non-selected", the DRNS shall use the Physical channel BER for the QE in the UL data frames, ref. [4].]

- For a set of co-ordinated DCHs, the DRNS shall use the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" for the QE in the UL data frames, ref. [4]. [FDD If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. [4]. If all DCHs have the *QE-Selector* IE set to "non-selected", the DRNS shall use the Physical channel BER for the QE, ref. [4].] [TDD If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER 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 Uu interface in congestion situations within the DRNS once the new configuration has been activated.
- The *Traffic Class* IE may 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 DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the DRNS may use this information to determine the transport bearer characteristics to apply for the uplink 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 Startpoint 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 Endpoint 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 include in the RADIO LINK RECONFIGURATION RESPONSE message the Secondary CCPCH Info IE for the FACH in which the DRAC information is sent, for each Radio Link supported by a cell in which 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.

#### **UNAFFECTED PARTS REMOVED**

# 9.1.4 RADIO LINK SETUP RESPONSE

# 9.1.4.1 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		_	
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		1 <maxno ofRLs&gt;</maxno 			EACH	ignore
>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		_	
> <u>Not UsedSecondary</u> CCPCH Info	0		<u>NULL</u> 9.2.2. 37B		_	
>DL Code Information	M		FDD DL Code Information 9.2.2.14A		-	
>CHOICE Diversity	М		0.2.2.1 17		_	
>>Combining					_	
>>>RL ID	M		9.2.1.49	Reference RL ID for the combining	_	
>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>Non Combining or First RL					_	
>>>DCH Information Response	М		9.2.1.16A		_	
>SSDT Support Indicator	Μ		9.2.2.43		_	
>Maximum Uplink SIR	Μ		Uplink SIR 9.2.1.69		Ι	
>Minimum 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		-	
>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]	-	
>Primary CPICH Power	Μ		9.2.1.44		—	
>DSCH Information	0		DSCH		YES	ignore
Response			FDD Information			

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
			Response 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
>DL Power Balancing Activation Indicator	0		9.2.2.10B		YES	ignore
>TFCI PC Support Indicator	0		9.2.2.46A		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
Uplink SIR Target	0		Uplink SIR 9.2.1.69		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
DSCH-RNTI	0		9.2.1.26Ba		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.19b		YES	ignore

Range bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE.

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### UNAFFECTED PARTS REMOVED

# 9.1.5 RADIO LINK SETUP FAILURE

# 9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	М		92140		YES	reject
Transaction ID	M		9.2.1.59		-	10,000
D-RNTI	0		9.2.1.24		YES	ianore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
CHOICE Cause Level	M				YES	ignore
>General					-	
>>Cause	М		9.2.1.5		_	
>RL Specific					_	
>>Unsuccessful RL		1 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<>			EACH	ignore
Information Response		ofRLs>				J
>>>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>				Ū
>>>RL ID	М		9.2.1.49		_	
>>>RL Set ID	Μ		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 Point Position	0		9.2.1.70A		_	
>>>Received Total Wide Band Power	М		9.2.2.35A		-	
>>> <u>Not Used</u> Secondary	0		<u>NULL</u> 9.2.2.		_	
>>>DL Code Information	М				_	
			Code Information 9.2.2.14A			
>>>CHOICE Diversity Indication	М				_	
>>>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 RI					-	
>>>>DCH	М		9.2.1.16A		_	
>>>SSDT Support	М		9.2.2.43		_	
>>>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>>>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>>>Closed Loop Timing Adjustment Mode	0		9.2.2.3A		-	
>>>Maximum Allowed	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		_	
>>>Primary CPICH Power	М		9.2.1.44		-	

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			Reference	Description		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	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	0		9.2.2.10B		YES	ignore
>>>TFCI PC Support Indicator	0		9.2.2.46A		YES	ignore
>>>HCS Prio	0		9.2.1.30N		YES	ignore
>>>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
>>DSCH-RNTI	0		9.2.1.26Ba		YES	ignore
>>HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
>>HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.19b		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.

### UNAFFECTED PARTS REMOVED

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# 9.1.7 RADIO LINK ADDITION RESPONSE

# 9.1.7.1 FDD Message

IE/Group Name	Presence	Range	ІЕ Туре	Semantics	Criticality	Assigned
			and	Description		Criticality
Message Type	М		921/0		VES	reject
Transaction ID	M		92159		-	Tejeot
RL Information Response		1 <maxnoof< td=""><td>0.2.11.00</td><td></td><td>EACH</td><td>ianore</td></maxnoof<>	0.2.11.00		EACH	ianore
··- ····		RLs-1>				ignere
>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 Point Position	0		9.2.1.70A		-	
>Received Total Wide Band Power	М		9.2.2.35A		-	
> <u>Not Used</u> Secondary	0		<u>NULL</u> 9.2.2. 37B		_	
>DL Code Information	М		FDD DL		YES	ignore
			Code			
			Information			
>CHOICE Diversity	М		J.Z.Z. 14A		_	
Indication						
>>Combining					_	
>>>RL ID	М		9.2.1.49	Reference RL ID	-	
>>>DCH Information	0		9.2.1.16A		YES	ignore
Response						
>>Non Combining					_	
>>>DCH Information	М		9.2.1.16A		-	
Response	NA		0.0.0.40			
Minimum Unlink SIR	M		9.2.2.43			
			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	М		9.2.1.35		-	
Navinum DL TX Power	М		DI Power			
			9.2.1.21A		_	
>Minimum DL TX Power	М		DL Power		_	
			9.2.1.21A			
>Neighbouring UMTS Cell	0		9.2.1.41A		_	
Information			0.0.1.110			
Sivergradiant Cell	0		9.2.1.410		_	
>PC Preamble	М		9.2.2.27a		_	
>SRB Delay	M		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 Activation Indicator	0		9.2.2.10B		YES	ignore
>TFCI PC Support Indicator	0		9.2.2.46A		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Primary CPICH Usage	0		9.2.2.32A		YES	ignore
For Channel Estimation	-					5

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			
maxnoofRLs	Maximum number of radio links for one UE.			

### UNAFFECTED PARTS REMOVED

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# 9.1.8 RADIO LINK ADDITION FAILURE

# 9.1.8.1 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		_	
CHOICE Cause Level	М				YES	ignore
>General					_	
>>Cause	М		9.2.1.5		-	
>RL Specific					-	
>>Unsuccessful RL Information Response		1 <maxnoof RLs-1&gt;</maxnoof 			EACH	ignore
>>>RL ID	М		9.2.1.49		_	
>>>Cause	М		9.2.1.5		_	
>>Successful RL		0 <maxnoof< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxnoof<>			EACH	ignore
Information Response		RLs-2>				-
>>>RL ID	М		9.2.1.49		-	
>>>RL Set ID	М		9.2.2.35		-	
>>>URA Information	0		9.2.1.70B		-	
>>>SAI	M		9.2.1.52		-	
>>>Cell GAI	0		9.2.1.5A		-	
>>>UTRAN Access	0		9.2.1.70A		-	
Point Position			0.0.0054			
Wide Band Power	IVI		9.2.2.35A		-	
>>> <u>Not-</u>	0		<u>NULL</u> 9.2.2.		-	
UsedSecondary			<del>37B</del>			
>>>DL Code	М				YES	ianore
	IVI		Code		120	ignore
internation			Information			
			9.2.2.14A			
>>>CHOICE Diversity	М				_	
Indication						
>>>Combining					_	
>>>>RL ID	М		9.2.1.49	Reference RL ID	-	
>>>>DCH	0		9.2.1.16A		YES	ignore
Information						
Response						
>>>Non Combining					-	
>>>>DCH	М		9.2.1.16A		-	
Information						
Response	N.4		0.0.0.40			
Indicator	IVI		9.2.2.43		_	
>>>Minimum Uplink	M		Uplink SIR		-	
SIR			9.2.1.69			
>>>Maximum Uplink	М		Uplink SIR 9.2.1.69		-	
>>>Closed Loop Timing	0		9.2.2.3A		-	
>>>Maximum Allowed	М		9.2.1.35		_	
UL Tx Power						
>>>Maximum DL TX Power	M		DL Power 9.2.1.21A		-	
>>>Minimum DL TX	М		DL Power		-	
Power			9.2.1.21A			
>>>Neighbouring	0		9.2.1.41A		-	
>>Neighbouring GSM	0		9.2.1.41C		-	
	M		0.2.4.4.4			<u> </u>
>>>Phinary CPICH	IVI		9.2.1.44		—	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Power						
>>>PC Preamble	Μ		9.2.2.27a		-	
>>>SRB Delay	M		9.2.2.39A		-	
>>>Cell GA Additional Shapes	0		9.2.1.5B		YES	ignore
>>>DL Power Balancing Activation Indicator	0		9.2.2.10B		YES	ignore
>>>TFCI PC Support Indicator	0		9.2.2.46A		YES	ignore
>>>HCS Prio	0		9.2.1.30N		YES	ignore
>>>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Range bound	Explanation
maxnoofRLs	Maximum number of radio links for one UE.

### UNAFFECTED PARTS REMOVED

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# 9.1.12 RADIO LINK RECONFIGURATION READY

## 9.1.12.1 FDD Message

IE/Group Name	Presence	Range	ІЕ Туре	Semantics	Criticality	Assigned
			and	Description		Criticality
	М				VES	reject
Transaction ID	M		9.2.1.40		-	Tejeci
RI Information Response		0 < maxno	3.2.1.33		FACH	ianore
		ofRLs>			EXION	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		-	
Not UsedSecondary			9.2.1.21A			
CCPCH lofo	0		<u>NOLL</u> <del>3.2.2.</del> 37B		_	
>DL Code Information	0				YES	ianore
	Ŭ		Code		120	ignore
			Information			
			9.2.2.14A			
>DCH Information	0		9.2.1.16A		YES	ignore
Response						
>DSCHs to be Added or	0		DSCH		YES	ignore
Modified			FDD			
			Information			
			9 2 2 13B			
>DL Power Balancing	0		92210D		YES	ianore
Updated Indicator	Ū		0.2.2.100		. 20	ignore
>Primary CPICH Usage	0		9.2.2.32A		YES	ignore
For Channel Estimation						- C
>Secondary CPICH	0		9.2.2.38B		YES	ignore
Information Change						
Criticality Diagnostics	0		9.2.1.13		YES	ignore
DSCH-RNTI	0		9.2.1.26Ba		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information	0		HS-DSCH		YES	ignore
Response			FDD			
			Information			
			Kesponse			
			9.2.2.190			
MAC-hs Reset Indicator	0		9.2.1.34B		YES	ignore

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

### UNAFFECTED PARTS REMOVED

# 9.1.17 RADIO LINK RECONFIGURATION RESPONSE

## 9.1.17.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
Message Type	Μ		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		_	
RL Information Response		0 <maxno ofRLs&gt;</maxno 			EACH	ignore
>RL ID	Μ		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		-	
> <u>Not Used</u> Secondary CCPCH Info	0		<u>NULL</u> 9.2.2. <del>37B</del>		-	
>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	0		9.2.2.10D		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.19b		YES	ignore
MAC-hs Reset Indicator	0		9.2.1.34B		YES	ignore

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for a UE.

### UNAFFECTED PARTS REMOVED

## 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 and Reference	Semantics Description	Criticality	Assigned Criticality
DCH FDD Information		1 <maxno ofDCHs&gt;</maxno 			_	
>Payload CRC Presence Indicator	Μ		9.2.1.42		-	
>UL FP Mode	М		9.2.1.67		-	
>ToAWS	Μ		9.2.1.58		-	
>ToAWE	Μ		9.2.1.57		-	
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			-	
>>DCH ID	Μ		9.2.1.16		-	
>>TrCH Source Statistics Descriptor	Μ		9.2.1.65		-	
>>Transport Format Set	Μ		9.2.1.64	For the UL.	—	
>>Transport Format Set	Μ		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	М		9.2.1.29		—	
>>QE-Selector	М		9.2.1.46A		_	
>> <u>Not Used</u> DRAC control	М		<u>NULL</u> 9.2.2. <del>13</del>		_	
>>Guaranteed Rate Information	0		9.2.1.30M		YES	ignore
>>Traffic Class	Μ		9.2.1.58A		YES	ignore
>>Unidirectional DCH Indicator	0		9.2.1.68B		YES	reject
>TNL QoS	0		9.2.1.56A		YES	ignore

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE.

## 9.2.2.13 DRAC Control

Void-

This IE indicates whether the DCH is control by DRAC or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DRAC Control			ENUMERAT ED (Requested, Not- Requested)	Requested means that DCH is controlled by DRAC

UNAFFECTED PARTS REMOVED

## 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	Semantics	Criticality	Assigned
			and	Description		Criticality
			Reference			
FDD DCHs To Modify		1 <maxno ofDCHs&gt;</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&gt;</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		-	
>> <u>Not Used</u> DRAC Control	0		<u>NULL</u> 9.2.2. 13		-	
>>Guaranteed Rate Information	0		9.2.1.30M		YES	ignore
>>Traffic Class	0		9.2.1.58A		YES	ignore
>TNL QoS	0		9.2.1.56A		YES	ignore

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE.

### UNAFFECTED PARTS REMOVED

9.2.2.15 FDD S-CCPCH Offset

Void.

The Secondary CCPCH offset is defined as the time offset towards the Primary CCPCH in the cell. The offset is a multiple of 256 chips.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
FDD S-CCPCH Offset			INTEGER(0.	<del>0: 0 chip</del>
			<del>. 149)</del>	<del>1: 256 chip</del>
				<del>2: 512 chip</del>
				<del></del>
				<del>149: 38144 chip</del>
				<del>ref. [8]</del>

#### UNAFFECTED PARTS REMOVED

9.2.2.20 IB\_SG\_POS

Void.

First position of an Information Block segment in the SFN cycle (IB\_SG\_POS < IB\_SG\_REP).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IB_SG_POS			INTEGER (04094)	Only even positions allowed. Reference [16]

## 9.2.2.21 IB\_SG\_REP

Void.

Repetition distance for an Information Block segment. The segment shall be transmitted when SFN mod IB\_SG\_REP = IB\_SG\_POS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
			Reference	
B_SG_REP			ENUMERAT	Repetition period for the IB
			<del>ED(4, 8, 16,</del>	segment in frames
			<del>32, 64, 128,</del>	
			<del>256, 512,</del>	
			<del>1024, 2048,</del>	
			4 <del>096)</del>	

### UNAFFECTED PARTS REMOVED

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9.2.2.37A Scrambling Code Number

Void.

9.2.2.37B Secondary CCPCH Info

Void.

The *Secondary CCPCH Info* IE provides information on scheduling of broadcast information for DRAC on a Secondary CCPCH in one cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	<b>Criticality</b>	Assigned Criticality
FDD S-CCPCH Offset	M		<del>9.2.2.15</del>	Corresponds to: T <sub>S-</sub> CCPCH,k, SOO rof [8]	-	
DI Scrambling Code	м		9.2.2.11		_	
FDD DL Channelisation Code Number	M		<del>9.2.2.1</del> 4		-	
TFCS	М		<del>9.2.1.63</del>	For the DL.	_	
Secondary CCPCH Slot Format	₩		<del>9.2.2.38</del>		_	
TFCI Presence	<del>C -</del> <del>SlotFormat</del>		<del>9.2.1.55</del>		-	
Multiplexing Position	М		<del>9.2.2.26</del>		_	
STTD Indicator	₩		<del>9.2.2.44</del>		_	
FACH/PCH Information		<del>1</del> <del>≺maxFAG</del> <del>Hcount+1&gt;</del>			_	
→TFS			<del>9.2.1.6</del> 4	For each FACH, and the PCH when multiplexed on the same Secondary CCPCH	_	
IB Scheduling Information		4			_	
<mark>→IB_SG_REP</mark>	H		<del>9.2.2.21</del>		_	
>IB Segment Information		<del>1</del> <i>≺maxIBSE</i> G>			_	
>>IB_SG_POS	H		<del>9.2.2.20</del>		_	

Condition	Explanation
SlotFormat	The IE shall be present if the Secondary CCPCH Slot Format IE is
	equal to any of the values from 8 to 17.

Range bound	Explanation
maxFACHCount	Maximum number of FACHs mapped onto a Secondary CCPCH.
maxIBSEG	Maximum number of segments for one Information Block.

# 9.2.2.38 Secondary CCPCH Slot Format

\_\_\_\_\_

Void.

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Secondary CCPCH Slot Format			INTEGER(0. .17)	See ref. [8].

### UNAFFECTED PARTS REMOVED

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## 9.3.3 PDU Definitions

\_ \_ -- PDU definitions for RNSAP. \_\_\_ RNSAP-PDU-Contents { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-PDU-Contents (1) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN \*\*\*\*\* \_\_\_\_ -- IE parameter types from other modules. \_\_\_ IMPORTS Active-Pattern-Sequence-Information, AllocationRetentionPriority, AllowedQueuingTime, Allowed-Rate-Information, AlphaValue, AntennaColocationIndicator, BLER, SCTD-Indicator, BindingID, C-ID, C-RNTI, CCTrCH-ID, CFN, ClosedLoopModel-SupportIndicator, ClosedLoopMode2-SupportIndicator, Closedlooptimingadjustmentmode, CN-CS-DomainIdentifier, CN-PS-DomainIdentifier, CNDomainType, Cause, CellCapabilityContainer-FDD, CellCapabilityContainer-TDD, CellCapabilityContainer-TDD-LCR, CellParameterID, ChipOffset, CommonMeasurementAccuracy, CommonMeasurementType,

CommonMeasurementValue, CommonMeasurementValueInformation. CommonTransportChannelResourcesInitialisationNotRequired, CongestionCause, CoverageIndicator, 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-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, DL-DPCH-TimingAdjustment, -----DRACControl, DRXCycleLengthCoefficient, DedicatedMeasurementType, DedicatedMeasurementValue, DedicatedMeasurementValueInformation, DelayedActivation, DelayedActivationUpdate, DiversityControlField, DiversityMode, DSCH-FDD-Information, DSCH-FDD-InformationResponse, DSCH-FlowControlInformation, DSCH-FlowControlItem, DSCH-TDD-Information, DSCH-ID, DSCH-RNTI, 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, HCS-Prio, HSDSCH-FDD-Information, HSDSCH-FDD-Information-Response, HSDSCH-FDD-Update-Information, HSDSCH-TDD-Update-Information, HSDSCH-Information-to-Modify, HSDSCH-Information-to-Modify-Unsynchronised, HSDSCH-MACdFlow-ID, HSDSCH-MACdFlows-Information, HSDSCH-MACdFlows-to-Delete, HSDSCH-RNTI, HSDSCH-TDD-Information, HSDSCH-TDD-Information-Response, HS-SICH-ID, IMSI, InformationExchangeID, InformationReportCharacteristics, InformationType, InnerLoopDLPCStatus, L3-Information, SplitType, LengthOfTFCI2, LimitedPowerIncrease, MaximumAllowedULTxPower, MaxNrDLPhysicalchannels, MaxNrDLPhysicalchannelsTS, MaxNrOfUL-DPCHs, MaxNrTimeslots, MaxNrULPhysicalchannels, MeasurementFilterCoefficient, MeasurementID, MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftLCR, MinimumSpreadingFactor, MinUL-ChannelisationCodeLength, MultiplexingPosition, NeighbouringFDDCellMeasurementInformation,

NeighbouringTDDCellMeasurementInformation, Neighbouring-GSM-CellInformation, Neighbouring-UMTS-CellInformation, NeighbouringTDDCellMeasurementInformationLCR, NrOfDLchannelisationcodes. PagingCause, PagingRecordType, PartialReportingIndicator, PDSCHCodeMapping, PayloadCRC-PresenceIndicator, PCCPCH-Power, PC-Preamble, Permanent-NAS-UE-Identity, Phase-Reference-Update-Indicator, PowerAdjustmentType, PowerOffset, PrimaryCCPCH-RSCP, PrimaryCPICH-EcNo, PrimaryCPICH-Power, Primary-CPICH-Usage-For-Channel-Estimation, PrimaryScramblingCode, PropagationDelay, PunctureLimit, OE-Selector, Oth-Parameter, RANAP-RelocationInformation, RB-Info, RL-ID, RL-Set-ID, RNC-ID, RepetitionLength, RepetitionPeriod, ReportCharacteristics, Received-total-wide-band-power, RequestedDataValue, RequestedDataValueInformation, RL-Specific-DCH-Info, RxTimingDeviationForTA, S-FieldLength, S-RNTI, S-RNTI-Group, SCH-TimeSlot, SAI, SFN, Secondary-CCPCH-Info, Secondary-CCPCH-Info-TDD,

Secondary-CPICH-Information-Change, Secondary-LCR-CCPCH-Info-TDD, SNA-Information, SpecialBurstScheduling, SSDT-CellID,

SSDT-CellID-Length, SSDT-Indication, SSDT-SupportIndicator, STTD-Indicator, STTD-SupportIndicator, AdjustmentPeriod, ScaledAdjustmentRatio, MaxAdjustmentStep, SecondaryCCPCH\_SlotFormat, SRB-Delay, Support-8PSK, 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-PC-SupportIndicator, TFCI-Presence, TFCI-SignallingMode, TimeSlot, TimeSlotLCR, TimingAdvanceApplied, TnlQos, TOAWE, TOAWS, TrafficClass, TransmitDiversityIndicator, TransportBearerID, TransportBearerRequestIndicator, TFCS, Transmission-Gap-Pattern-Sequence-Information, TransportFormatManagement, TransportFormatSet, TransportLayerAddress, TrCH-SrcStatisticsDescr, TSTD-Indicator, TSTD-Support-Indicator, UARFCN, UC-ID, UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation, UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation-Of-HS-DSCH, 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, UL-Synchronisation-Parameters-LCR, TDD-DL-DPCH-TimeSlotFormat-LCR, TDD-UL-DPCH-TimeSlotFormat-LCR. MAChs-ResetIndicator, UL-TimingAdvanceCtrl-LCR, TDD-TPC-UplinkStepSize-LCR, PrimaryCCPCH-RSCP-Delta UNAFFECTED PARTS REMOVED -- RADIO LINK SETUP RESPONSE FDD RadioLinkSetupResponseFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupResponseFDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}} OPTIONAL, . . . ļ RadioLinkSetupResponseFDD-IEs RNSAP-PROTOCOL-IES ::= { TD id-D-RNTT CRITICALITY ignore TYPE D-RNTI PRESENCE optional ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional ID id-RL-InformationResponseList-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-SetupRspFDD PRESENCE mandatory } PRESENCE optional } | ID id-UL-SIRTarget CRITICALITY ignore TYPE UL-SIR ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } 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,
gA-Cell	GA-Cell OPTIONAL,
gA-AccessPointPosition	GA-AccessPointPosition OPTIONAL,
received-total-wide-band-power	Received-total-wide-band-power,
not-Used-secondary-CCPCH-Info	NULL <mark>Secondary-CCPCH-Info</mark> OPTIONAL,
dl-CodeInformation	FDD-DL-CodeInformation,
diversityIndication	DiversityIndication-RL-SetupRspFDD,
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-CellInformati	.on Neighbouring-UMTS-CellInformation OPTIONAL,
neighbouring-GSM-CellInformatio	n Neighbouring-GSM-CellInformation OPTIONAL,
pC-Preamble	PC-Preamble,
sRB-Delay	SRB-Delay,
iE-Extensions	ProtocolExtensionContainer { {RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL
• • •	

### UNAFFECTED PARTS REMOVED

```
protocolExtensions
                                    ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}}
                                                                                                                          OPTIONAL,
RadioLinkSetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
      ID id-D-RNTI
                                    CRITICALITY ignore TYPE D-RNTI
                                                                                     PRESENCE optional
                                                                                                       } |
      ID id-CN-PS-DomainIdentifier
                                            CRITICALITY ignore TYPE CN-PS-DomainIdentifier
                                                                                                   PRESENCE optional
      ID id-CN-CS-DomainIdentifier
                                            CRITICALITY ignore TYPE CN-CS-DomainIdentifier
                                                                                                   PRESENCE optional
      ID id-CauseLevel-RL-SetupFailureFDD
                                                        CRITICALITY ignore
                                                                               TYPE CauseLevel-RL-SetupFailureFDD
                                                                                                                        PRESENCE mandatory } |
      ID id-UL-SIRTarget
                                        CRITICALITY ignore TYPE UL-SIR
                                                                                         PRESENCE optional }
     ID id-CriticalityDiagnostics
                                            CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                   PRESENCE optional },
    . . .
ι
CauseLevel-RL-SetupFailureFDD ::= CHOICE {
    generalCause
                        GeneralCauseList-RL-SetupFailureFDD,
    rLSpecificCause
                        RLSpecificCauseList-RL-SetupFailureFDD,
    . . .
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,
                                                ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
}
RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-DSCH-RNTI
                                                                                                                        PRESENCE optional }
                                                CRITICALITY ignore
                                                                         EXTENSION DSCH-RNTI
      ID id-HSDSCH-RNTI
                                                CRITICALITY ignore
                                                                         EXTENSION HSDSCH-RNTI
                                                                                                                        PRESENCE optional }
     ID id-HSDSCH-FDD-Information-Response
                                                CRITICALITY ignore
                                                                         EXTENSION HSDSCH-FDD-Information-Response
                                                                                                                        PRESENCE optional },
    . . .
}
UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= SEOUENCE (SIZE (1..maxNrOfRLs)) OF ProtocollE-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
}
```

```
3GPP
```

```
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
   rL-ID
                                            RL-ID,
    rL-Set-TD
                                            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,
    not-Used-secondary-CCPCH-Info
                                                     NULLSecondary-CCPCH-Info
                                                                                     OPTIONAL,
    dl-CodeInformation
                                            FDD-DL-CodeInformation,
    diversityIndication
                                            DiversityIndication-RL-SetupFailureFDD,
    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 OPTIONAL,
    primaryScramblingCode
    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,
    . . .
```

<sup>3</sup>GPP

```
_ _
-- RADIO LINK ADDITION RESPONSE FDD
         RadioLinkAdditionResponseFDD ::= SEQUENCE {
                                                            {{RadioLinkAdditionResponseFDD-IEs}},
   protocolIEs
                                  ProtocolIE-Container
   protocolExtensions
                                 ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}
                                                                                                                      OPTIONAL,
   . . .
}
RadioLinkAdditionResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-RL-InformationResponseList-RL-AdditionRspFDD
                                                        CRITICALITY ignore TYPE RL-InformationResponseList-RL-AdditionRspFDD
                                                                                                                             PRESENCE mandatory
     ID id-CriticalityDiagnostics
                                         CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                            PRESENCE optional },
    . . .
RL-InformationResponseList-RL-AdditionRspFDD
                                                 ::= 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-TD
                                 RL-ID,
   rL-Set-ID
                                 RL-Set-ID,
   uRA-Information
                                 URA-Information
                                                    OPTIONAL,
   sAI
                                  SAI,
   qA-Cell
                                  GA-Cell
                                             OPTIONAL,
   gA-AccessPointPosition
                                 GA-AccessPointPosition OPTIONAL,
   received-total-wide-band-power Received-total-wide-band-power,
   not-Used-secondary-CCPCH-Info
                                         NULLSecondary CCPCH Info
                                                                       OPTIONAL,
   dl-CodeInformation
                                 DL-CodeInformationList-RL-AdditionRspFDD,
   diversityIndication
                                 DiversityIndication-RL-AdditionRspFDD,
   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,
iE-Extensions	ProtocolExtensionContainer { {RL-InformationResponseItem-RL-AdditionRspFDD-ExtIEs} } OPTIONAL,

}

#### UNAFFECTED PARTS REMOVED

```
_ _
-- RADIO LINK ADDITION FAILURE FDD
                 RadioLinkAdditionFailureFDD ::= SEQUENCE {
   protocolIEs
                                 ProtocolIE-Container
                                                          {{RadioLinkAdditionFailureFDD-IEs}},
                                ProtocolExtensionContainer {{RadioLinkAdditionFailureFDD-Extensions}}
                                                                                                                 OPTIONAL,
   protocolExtensions
    . . .
}
RadioLinkAdditionFailureFDD-IEs RNSAP-PROTOCOL-IES ::= {
    { ID id-CauseLevel-RL-AdditionFailureFDD
                                                          CRITICALITY
                                                                         ignore
                                                                                         TYPE CauseLevel-RL-AdditionFailureFDD
   PRESENCE mandatory }
    { ID id-CriticalityDiagnostics
                                                                                         PRESENCE optional },
                                        CRITICALITY ignore TYPE CriticalityDiagnostics
    . . .
}
CauseLevel-RL-AdditionFailureFDD ::= CHOICE {
   generalCause
                     GeneralCauseList-RL-AdditionFailureFDD,
                     RLSpecificCauseList-RL-AdditionFailureFDD,
   rLSpecificCause
   . . .
}
GeneralCauseList-RL-AdditionFailureFDD ::= SEQUENCE {
   cause
                                           Cause,
                                           ProtocolExtensionContainer { { GeneralCauseItem-RL-AdditionFailureFDD-ExtIEs } }
   iE-Extensions
                                                                                                                         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,
    iE-Extensions
                                                ProtocolExtensionContainer { { RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs } }
                                                                                                                                          OPTIONAL,
    . . .
RLSpecificCauseItem-RL-AdditionFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
UnsuccessfulRL-InformationResponseList-RL-AdditionFailureFDD ::= SEOUENCE (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.
                                    ProtocolExtensionContainer { { UnsuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
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-TD
                                        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,
    not-Used-secondary-CCPCH-Info
                                                NULLSecondary-CCPCH-Info
                                                                                 OPTIONAL,
```

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```

dl-CodeInformation	DL-CodeInformationList-RL-AdditionFailureFDD,			
diversityIndication	DiversityIndication-RL-AdditionFailureFDD,			
This IE represents both the Dive	ersity 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-Delay	SRB-Delay,			
iE-Extensions	ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,			

\_ \_ RADIO LINK RECONFIGURATION READY FDD \_ \_ RadioLinkReconfigurationReadyFDD ::= SEQUENCE { {{RadioLinkReconfigurationReadyFDD-IEs}}, protocolIEs ProtocolIE-Container protocolExtensions ProtocolExtensionContainer {{RadioLinkReconfigurationReadyFDD-Extensions}} OPTIONAL, . . . } RadioLinkReconfigurationReadyFDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-RL-InformationResponseList-RL-ReconfReadyFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-ReconfReadyFDD PRESENCE optional 1 | { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } RL-InformationResponseList-RL-ReconfReadyFDD ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationResponse-RL-ReconfReadyFDD-IEs } }

RL-InformationResponse-RL-ReconfReadyFDD-IEs RNSAP-PROTOCOL-IES ::= {

```
ID id-RL-InformationResponseItem-RL-ReconfReadyFDD
                                                        CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfReadyFDD
                                                                                                                             PRESENCE mandatory
}
RL-InformationResponseItem-RL-ReconfReadyFDD ::= SEQUENCE
   rL-ID
                                 RL-ID,
   max-UL-SIR
                                 UL-SIR
                                                 OPTIONAL,
   min-UL-SIR
                                 UL-SIR
                                                 OPTIONAL,
   maximumDLTxPower
                                 DL-Power
                                                 OPTIONAL,
   minimumDLTxPower
                                  DL-Power
                                                 OPTIONAL,
                                         NULLSecondary-CCPCH-Info
   not-Used-secondary-CCPCH-Info
                                                                       OPTIONAL,
   dl-CodeInformationList
                                 DL-CodeInformationList-RL-ReconfReadyFDD
                                                                           OPTIONAL,
   dCHInformationResponse
                                 DCH-InformationResponseList-RL-ReconfReadyFDD
                                                                               OPTIONAL,
   dSCHsToBeAddedOrModified
                                 DSCHsToBeAddedOrModified-RL-ReconfReadyFDD
                                                                               OPTIONAL,
   iE-Extensions
                                  ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs} } OPTIONAL,
    . . .
                                                         UNAFFECTED PARTS REMOVED
    _ _
  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 },
    . . .
RL-InformationResponseList-RL-ReconfRspFDD
                                             ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationResponse-RL-
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
```

}					
RL-	InformationResponseItem-RL-Recon	IfRspFDD ::= SEQU	JENCE {		
	rL-ID	RL-ID,	-		
	max-UL-SIR	UL-SIR	OPTIONAL,		
	min-UL-SIR	UL-SIR	OPTIONAL,		
	maximumDLTxPower	DL-Power	OPTIONAL,		
	minimumDLTxPower	DL-Power	OPTIONAL,		
	<pre>not-Used-secondary-CCPCH-Info</pre>	NULL <mark>Sec</mark>	<del>condary CCPCH Info</del>	OPTIONAL,	
	dCHsInformationResponseList	DCH-Information	nResponseList-RL-Recon:	nfRspFDD OPTIONAL,	
	dL-CodeInformationList-RL-Recon	fResp DL-Code	eInformationList-RL-Red	econfRspFDD OPTIONAL,	
	iE-Extensions	ProtocolExtensi	ionContainer { {RL-Info	formationResponseItem-RL-ReconfRspFDD-ExtIEs}	, L
}					

\_\_\_\_\_

\_\_\_\_\_

## 9.3.4 Information Element Definitions

-- Information Element Definitions

#### UNAFFECTED PARTS REMOVED

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

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

}

\_ \_

```
DCH-FDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    { ID id-TnlOos
                            CRITICALITY
                                            ignore
                                                         EXTENSION
                                                                     Tnl0os
                                                                                 PRESENCE
                                                                                             optional },
    . . .
DCH-Specific-FDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-FDD-Item
DCH-Specific-FDD-Item ::= SEOUENCE {
    dCH-TD
                                        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,
    not-Used-dRACControl
                                                     NULLDRACControl,
                                        ProtocolExtensionContainer { {DCH-FDD-SpecificItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DRACControl
               -:-= ENUMERATED {
   -requested,
   not-requested
+
DRXCycleLengthCoefficient
                                        ::= INTEGER (3..9)
-- See in [16]
                                                             UNAFFECTED PARTS REMOVED
FDD-DCHs-to-ModifySpecificItem ::=
                                    SEQUENCE {
    dCH-ID
                                    DCH-ID,
    ul-TransportformatSet
                                    TransportFormatSet
                                                             OPTIONAL,
    dl-TransportformatSet
                                    TransportFormatSet
                                                             OPTIONAL,
    allocationRetentionPriority
                                    AllocationRetentionPriority
                                                                     OPTIONAL,
    frameHandlingPriority
                                     FrameHandlingPriority
                                                                OPTIONAL,
    not-Used-dRACControl
                                                NULLDRACControl
                                                                     OPTIONAL,
    iE-Extensions
                                     ProtocolExtensionContainer { {FDD-DCHs-to-ModifySpecificItem-ExtIEs} } OPTIONAL,
    . . .
```

\_\_\_\_\_

-- I IB-SchedulingInformation: = SEOUENCE { iB-SG-Rep IB-SG-REP, ProtocolExtensionContainer { { IB SchedulingInformation ExtIEs } } OPTIONAL, . . . + IB-SchedulingInformation-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= { + IB-SegmentInformationList ::= SEQUENCE (SIZE(1..maxIBSEG)) OF IB-SegmentInformationItem IB-SegmentInformationItem ::= SEQUENCE { -IB-SG-POS, -ProtocolExtensionContainer { { IB SegmentInformationItem ExtIEs } } OPTIONAL, \_\_\_\_ + IB-SegmentInformationItem-Extles 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}

#### **UNAFFECTED PARTS REMOVED**

Secondary CCPCH Info::= SEQUENCE {

- \_\_\_\_\_\_FDD\_S\_CCPCH\_Offset\_\_\_\_\_\_FDD\_S\_CCPCH\_Offset,
- 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
- sTTD-Indicator STTD-Indicator,

<u> </u>	- FACH-PCH-InformationList,
	- IB-SchedulingInformation,
	ProtocolExtensionContainer { { Secondary-CCPCH-Info-ExtIEs} } OPTIONAL,
<del>}</del>	
Secondary CCPCH Info ExtIEs RNSAP PROTOCOL	<del>EXTENSION ::= {</del>
····	
<b>†</b>	

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

## UNAFFECTED PARTS REMOVED

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SecondaryCCPCH SlotFormat ::= INTEGER (0..17,...) -- refer to [8]

#### 1

Rel-6 Rel-7

(Release 7)

Tdoc #R3-050731

## 3GPP TSG-RAN WG3 Meeting #47 Athens, Greece, 9th- 13th May 2005

CHANGE REQUEST								
ж	25.423 CR 1057	Current vers	<sup>ion:</sup> 6.5.0 <sup>ℋ</sup>					
For <u>HELP</u> or	using this form, see bottom of this page or look at the	pop-up text	over the ¥ symbols.					
Proposed chang	Proposed change affects: UICC apps ME Radio Access Network X Core Network							
Title:	# Feature Cleanup: Removal of DRAC							
Source:	器 RAN3							
Work item code:	業 TEI5	<i>Date:</i> ೫	10/05/2005					
Category:	<ul> <li>C</li> <li>Use <u>one</u> of the following categories:</li> <li>F (correction)</li> <li>A (corresponds to a correction in an earlier release,</li> <li>B (addition of feature),</li> <li>C (functional modification of feature)</li> <li>D (editorial modification)</li> <li>Detailed explanations of the above categories can be found in 3GPP <u>TR 21.900</u>.</li> </ul>	Release: ₩ Use <u>one</u> of Ph2 ) R96 R97 R98 R99 Rel-4 Rel-5 Rel-5	Rel-6 the following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5)					

Reason for change:	# Removal of DRAC				
•					
Summarv of change	Removal of DRAC text				
,					
Consequences if	¥				
not approved:					
not approved.					
Clauses affected:	<b>3 3 3 3 3 3 3 1 2 8 3 3 2 2 3 3 4 2 3 3 7 2 9 1 4 1 9 1 5 1 9 1 7 1 7 1 9 1 8 1 9 1 1 1 1 1 1 1 1 1 1</b>				
	9.1.17.1, 9.2.2.4A, 9.2.2.13, 9.2.2.13C, 9.2.2.15, 9.2.2.20, 9.2.2.21, 9.2.2.37B				
	92238 933 934				
3.2.2.30, 3.3.3, 3.3.4					
	Y N				
Other specs	<b>X</b> Other core specifications <b>#</b> 25.306, 25.331, 25.931				
affected:	X Test specifications				
anecieu.					
	X O&M Specifications				
Other comments:	<b>H</b>				

## 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/specs/CR.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.

# 3.3 Abbreviations

I

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

A-GPS	Assisted-GPS
ALCAP	Access Link Control Application Part
APN	Access Point Name
ASN.1	Abstract Syntax Notation One
BER	Bit Error Rate
BLER	Block Error Rate
BSS	Base Station Subsystem
CBSS	Controlling BSS
CCCH	Common Control Channel
CCPCH	Common Control Physical Channel
CCTrCH	Coded Composite Transport Channel
CFN	Connection Frame Number
C-ID	Cell Identifier
СМ	Compressed Mode
CN	Core Network
CPCH	Common Packet Channel
CPICH	Common Pilot Channel
CRNC	Controlling RNC
DBSS	Drift BSS
C-RNTI	Cell Radio Network Temporary Identifier
CS	Circuit Switched
CTFC	Calculated Transport Format Combination DCH Dedicated Channel
DGPS	Differential GPS
DL	Downlink
DPC	Downlink Power Control
DPCCH	Dedicated Physical Control Channel
DPCH	Dedicated Physical Channel
DPDCH	Dedicated Physical Data Channel
DRAC	- Dynamic Radio Access Control
DRAC DRNC	- Dynamic Radio Access Control Drift RNC
<del>DRAC</del> DRNC DRNS	<del>Dynamic Radio Access Control</del> Drift RNC Drift RNS
DRAC DRNC DRNS D-RNTI	<del>Dynamic Radio Access Control</del> Drift RNC Drift RNS Drift Radio Network Temporary Identifier
DRAC DRNC DRNS D-RNTI DRX	<u>— Dynamic Radio Access Control</u> Drift RNC Drift RNS Drift Radio Network Temporary Identifier Discontinuous Reception
DRAC DRNC DRNS D-RNTI DRX DSCH	Dynamic Radio Access Control Drift RNC Drift RNS Drift Radio Network Temporary Identifier Discontinuous Reception Downlink Shared Channel
DRAC DRNC DRNS D-RNTI DRX DSCH Ec	Dynamic Radio Access Control Drift RNC Drift RNS Drift Radio Network Temporary Identifier Discontinuous Reception Downlink Shared Channel Energy in single Code
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH	Dynamic Radio Access Control Drift RNC Drift RNS Drift Radio Network Temporary Identifier Discontinuous Reception Downlink Shared Channel Energy in single Code Enhanced UL DCH
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC	Dynamic Radio Access Control Drift RNC Drift RNS Drift Radio Network Temporary Identifier Discontinuous Reception Downlink Shared Channel Energy in single Code Enhanced UL DCH Enhanced Downlink Shared Channel Power Control
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP	Dynamic Radio Access Control Drift RNC Drift RNS Drift Radio Network Temporary Identifier Discontinuous Reception Downlink Shared Channel Energy in single Code Enhanced UL DCH Enhanced Downlink Shared Channel Power Control Elementary Procedure
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP FACH	Dynamic Radio Access ControlDrift RNCDrift RNSDrift Radio Network Temporary IdentifierDiscontinuous ReceptionDownlink Shared ChannelEnergy in single CodeEnhanced UL DCHEnhanced Downlink Shared Channel Power ControlElementary ProcedureForward Access Channel
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP FACH FDD	Dynamic Radio Access ControlDrift RNCDrift RNSDrift Radio Network Temporary IdentifierDiscontinuous ReceptionDownlink Shared ChannelEnergy in single CodeEnhanced UL DCHEnhanced Downlink Shared Channel Power ControlElementary ProcedureForward Access ChannelFrequency Division Duplex
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP FACH FDD F-DPCH	Dynamic Radio Access ControlDrift RNCDrift RNSDrift Radio Network Temporary IdentifierDiscontinuous ReceptionDownlink Shared ChannelEnergy in single CodeEnhanced UL DCHEnhanced Downlink Shared Channel Power ControlElementary ProcedureForward Access ChannelFrequency Division DuplexFractional DPCH
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP FACH FDD F-DPCH FN	Dynamic Radio Access ControlDrift RNCDrift RNSDrift Radio Network Temporary IdentifierDiscontinuous ReceptionDownlink Shared ChannelEnergy in single CodeEnhanced UL DCHEnhanced Downlink Shared Channel Power ControlElementary ProcedureForward Access ChannelFrequency Division DuplexFractional DPCHFrame Number
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP FACH FDD F-DPCH FN FP	Dynamic Radio Access ControlDrift RNCDrift RNSDrift Radio Network Temporary IdentifierDiscontinuous ReceptionDownlink Shared ChannelEnergy in single CodeEnhanced UL DCHEnhanced Downlink Shared Channel Power ControlElementary ProcedureForward Access ChannelFrequency Division DuplexFractional DPCHFrame NumberFrame Protocol
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP FACH FDD F-DPCH FN FP GERAN	Dynamic Radio Access ControlDrift RNCDrift RNSDrift Radio Network Temporary IdentifierDiscontinuous ReceptionDownlink Shared ChannelEnergy in single CodeEnhanced UL DCHEnhanced Downlink Shared Channel Power ControlElementary ProcedureForward Access ChannelFrequency Division DuplexFractional DPCHFrame NumberFrame ProtocolGSM EDGE Radio Access Network
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP FACH FDD F-DPCH FN FP GERAN GA	Dynamic Radio Access ControlDrift RNCDrift RNSDrift Radio Network Temporary IdentifierDiscontinuous ReceptionDownlink Shared ChannelEnergy in single CodeEnhanced UL DCHEnhanced Downlink Shared Channel Power ControlElementary ProcedureForward Access ChannelFrequency Division DuplexFractional DPCHFrame NumberFrame ProtocolGSM EDGE Radio Access NetworkGeographical Area
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP FACH FDD F-DPCH FN FP GERAN GA GAI	<ul> <li>Dynamic Radio Access Control</li> <li>Drift RNC</li> <li>Drift RNS</li> <li>Drift Radio Network Temporary Identifier</li> <li>Discontinuous Reception</li> <li>Downlink Shared Channel</li> <li>Energy in single Code</li> <li>Enhanced UL DCH</li> <li>Enhanced Downlink Shared Channel Power Control</li> <li>Elementary Procedure</li> <li>Forward Access Channel</li> <li>Frequency Division Duplex</li> <li>Fractional DPCH</li> <li>Frame Number</li> <li>Frame Protocol</li> <li>GSM EDGE Radio Access Network</li> <li>Geographical Area</li> <li>Geographical Area Identifier</li> </ul>
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP FACH FDD F-DPCH FN FP GERAN GA GAI GPS	Dynamic Radio Access ControlDrift RNCDrift RNSDrift Radio Network Temporary IdentifierDiscontinuous ReceptionDownlink Shared ChannelEnergy in single CodeEnhanced UL DCHEnhanced Downlink Shared Channel Power ControlElementary ProcedureForward Access ChannelFrequency Division DuplexFractional DPCHFrame NumberFrame ProtocolGSM EDGE Radio Access NetworkGeographical AreaGeographical Area IdentifierGlobal Positioning System
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP FACH FDD F-DPCH FN FP GERAN GA GAI GPS GRA	Dynamic Radio Access ControlDrift RNCDrift RNSDrift Radio Network Temporary IdentifierDiscontinuous ReceptionDownlink Shared ChannelEnergy in single CodeEnhanced UL DCHEnhanced Downlink Shared Channel Power ControlElementary ProcedureForward Access ChannelFrequency Division DuplexFractional DPCHFrame NumberFrame ProtocolGSM EDGE Radio Access NetworkGeographical AreaGeographical Area IdentifierGlobal Positioning SystemGERAN Registration Area
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP FACH FDD F-DPCH FN FP GERAN GA GAI GPS GRA GSM	Dynamic Radio Access ControlDrift RNCDrift RNSDrift Radio Network Temporary IdentifierDiscontinuous ReceptionDownlink Shared ChannelEnergy in single CodeEnhanced UL DCHEnhanced Downlink Shared Channel Power ControlElementary ProcedureForward Access ChannelFrequency Division DuplexFractional DPCHFrame NumberFrame ProtocolGSM EDGE Radio Access NetworkGeographical AreaGeographical Area IdentifierGlobal Positioning SystemGERAN Registration AreaGlobal System Mobile
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP FACH FDD F-DPCH FN FP GERAN GA GAI GAS GRA GSM HSDPA	Dynamic Radio Access ControlDrift RNCDrift RNSDrift Radio Network Temporary IdentifierDiscontinuous ReceptionDownlink Shared ChannelEnergy in single CodeEnhanced UL DCHEnhanced Downlink Shared Channel Power ControlElementary ProcedureForward Access ChannelFrequency Division DuplexFractional DPCHFrame NumberFrame ProtocolGSM EDGE Radio Access NetworkGeographical AreaGeographical Area IdentifierGlobal Positioning SystemGERAN Registration AreaGlobal System MobileHigh Speed Downlink Packet Access
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP FACH FDD F-DPCH FN FP GERAN GA GAI GAI GAS GRA GSM HSDPA HW	Dynamic Radio Access ControlDrift RNCDrift RNSDrift Radio Network Temporary IdentifierDiscontinuous ReceptionDownlink Shared ChannelEnergy in single CodeEnhanced UL DCHEnhanced Downlink Shared Channel Power ControlElementary ProcedureForward Access ChannelFrequency Division DuplexFractional DPCHFrame NumberFrame NumberFrame ProtocolGSM EDGE Radio Access NetworkGeographical AreaGeographical Area IdentifierGlobal Positioning SystemGERAN Registration AreaGlobal System MobileHigh Speed Downlink Packet AccessHardware
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP FACH FDD F-DPCH FN FP GERAN GA GAI GAI GAS GAI GPS GRA GSM HSDPA HW IB	Dynamic Radio Access ControlDrift RNCDrift RNSDrift Radio Network Temporary IdentifierDiscontinuous ReceptionDownlink Shared ChannelEnergy in single CodeEnhanced UL DCHEnhanced Downlink Shared Channel Power ControlElementary ProcedureForward Access ChannelFrequency Division DuplexFractional DPCHFrame NumberFrame NumberFrame ProtocolGSM EDGE Radio Access NetworkGeographical AreaGeographical Area IdentifierGlobal Positioning SystemGERAN Registration AreaGlobal System MobileHigh Speed Downlink Packet AccessHardwareInformation Block
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP FACH FDD F-DPCH FN FP GERAN GA GAI GAI GAS GAI GPS GRA GSM HSDPA HW IB ID	Dynamic Radio Access ControlDrift RNCDrift RNSDrift Radio Network Temporary IdentifierDiscontinuous ReceptionDownlink Shared ChannelEnergy in single CodeEnhanced UL DCHEnhanced Downlink Shared Channel Power ControlElementary ProcedureForward Access ChannelFrequency Division DuplexFractional DPCHFrame NumberFrame ProtocolGSM EDGE Radio Access NetworkGeographical AreaGeographical Area IdentifierGlobal Positioning SystemGERAN Registration AreaGlobal System MobileHigh Speed Downlink Packet AccessHardwareInformation BlockIdentify or Identifier
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP FACH FDD F-DPCH FN FP GERAN GA GAI GAI GAS GAI GPS GRA GSM HSDPA HW IB ID IE	Dynamic Radio Access ControlDrift RNCDrift RNSDrift Radio Network Temporary IdentifierDiscontinuous ReceptionDownlink Shared ChannelEnergy in single CodeEnhanced UL DCHEnhanced Downlink Shared Channel Power ControlElementary ProcedureForward Access ChannelFrequency Division DuplexFractional DPCHFrame NumberFrame ProtocolGSM EDGE Radio Access NetworkGeographical AreaGeographical Area IdentifierGlobal Positioning SystemGERAN Registration AreaGlobal System MobileHigh Speed Downlink Packet AccessHardwareInformation BlockIdentifierInformation Element
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP FACH FDD F-DPCH FN FP GERAN GA GAI GAI GAS GAI GPS GRA GSM HSDPA HW IB ID IE IMSI	Dynamic Radio Access ControlDrift RNCDrift RNSDrift Radio Network Temporary IdentifierDiscontinuous ReceptionDownlink Shared ChannelEnergy in single CodeEnhanced UL DCHEnhanced Downlink Shared Channel Power ControlElementary ProcedureForward Access ChannelFrequency Division DuplexFractional DPCHFrame NumberFrame ProtocolGSM EDGE Radio Access NetworkGeographical AreaGeographical Area IdentifierGlobal Positioning SystemGERAN Registration AreaGlobal System MobileHigh Speed Downlink Packet AccessHardwareInformation BlockIdentify or IdentifierInformation ElementInternational Mobile Subscriber Identify
DRAC DRNC DRNS D-RNTI DRX DSCH Ec E-DCH EDSCHPC EP FACH FDD F-DPCH FN FP GERAN GA GAI GAI GPS GRA GSM HSDPA HW IB ID IE IMSI IP	Dynamic Radio Access ControlDrift RNCDrift RNSDrift Radio Network Temporary IdentifierDiscontinuous ReceptionDownlink Shared ChannelEnergy in single CodeEnhanced UL DCHEnhanced Downlink Shared Channel Power ControlElementary ProcedureForward Access ChannelFrequency Division DuplexFractional DPCHFrame NumberFrame ProtocolGSM EDGE Radio Access NetworkGeographical AreaGeographical AreaGlobal Positioning SystemGERAN Registration AreaGlobal System MobileHigh Speed Downlink Packet AccessHardwareInformation BlockIdentifierInformation ElementInternational Mobile Subscriber IdentifyInternational Mobile Subscriber Identify

ISCP	Interference Signal Code Power
LAC	Location Area Code
LCR	Low Chip Rate (1.28 Mcps)
LCS	Location Services
MAC	Medium Access Control
MBMS	Multimedia Broadcast Multicast Service
MS	Mobile Station
NACC	Network Assissted Cell Change
NAS	Non Access Stratum
No	Reference Noise
NRT	Non Real Time
O&M	Operation and Maintenance
P(-)CCPCH	Primary CCPCH
PCH	Paging Channel
OTD	Observed Time Difference
P(-)CPICH	Primary CPICH
PCPCH	Physical Common Packet Channel
PCS	Personal Communication Services
PDSCH	Physical Downlink Shared Channel
PDU	Protocol Data Unit
PhCH	Physical Channel
PICH	Paging Indication Channel
Pos	Position or Positioning
PRACH	Physical Random Access Channel
PTP	Point To Point
PTM	Point To Multipoint
PS	Packet Switched
OE	Quality Estimate
RAC	Routing Area Code
RACH	Random Access Channel
RAN	Radio Access Network
RANAP	Radio Access Network Application Part
RB	Radio Bearer
RL	Radio Link
RLC	Radio Link Control
RLS	Radio Link Set
RM	Rate Matching
RNC	Radio Network Controller
RNS	Radio Network Subsystem
RNSAP	Radio Network Subsystem Application Part
RNTI	Radio Network Temporary Identifier
RRC	
	Radio Resource Control
RT	Radio Resource Control Real Time
RT RSCP	Radio Resource Control Real Time Received Signal Code Power
RT RSCP SBSS	Radio Resource Control Real Time Received Signal Code Power Serving BSS
RT RSCP SBSS Rx	Radio Resource Control Real Time Received Signal Code Power Serving BSS Receive or Reception
RT RSCP SBSS Rx Sat	Radio Resource Control Real Time Received Signal Code Power Serving BSS Receive or Reception Satellite
RT RSCP SBSS Rx Sat SCCP	Radio Resource Control Real Time Received Signal Code Power Serving BSS Receive or Reception Satellite Signalling Connection Control Part
RT RSCP SBSS Rx Sat SCCP S(-)CCPCH	Radio Resource Control Real Time Received Signal Code Power Serving BSS Receive or Reception Satellite Signalling Connection Control Part Secondary CCPCH
RT RSCP SBSS Rx Sat SCCP S(-)CCPCH SCH	Radio Resource Control Real Time Received Signal Code Power Serving BSS Receive or Reception Satellite Signalling Connection Control Part Secondary CCPCH Synchronisation Channel
RT RSCP SBSS Rx Sat SCCP S(-)CCPCH SCH SCTD	Radio Resource Control Real Time Received Signal Code Power Serving BSS Receive or Reception Satellite Signalling Connection Control Part Secondary CCPCH Synchronisation Channel Space Code Transmit Diversity
RT RSCP SBSS Rx Sat SCCP S(-)CCPCH SCH SCTD SDU	Radio Resource Control Real Time Received Signal Code Power Serving BSS Receive or Reception Satellite Signalling Connection Control Part Secondary CCPCH Synchronisation Channel Space Code Transmit Diversity Service Data Unit
RT RSCP SBSS Rx Sat SCCP S(-)CCPCH SCH SCTD SDU SF	Radio Resource Control Real Time Received Signal Code Power Serving BSS Receive or Reception Satellite Signalling Connection Control Part Secondary CCPCH Synchronisation Channel Space Code Transmit Diversity Service Data Unit System Frame
RT RSCP SBSS Rx Sat SCCP S(-)CCPCH SCH SCTD SDU SF SFN	Radio Resource Control Real Time Received Signal Code Power Serving BSS Receive or Reception Satellite Signalling Connection Control Part Secondary CCPCH Synchronisation Channel Space Code Transmit Diversity Service Data Unit System Frame System Frame
RT RSCP SBSS Rx Sat SCCP S(-)CCPCH SCH SCTD SDU SF SFN SFN SHCCH	Radio Resource Control Real Time Received Signal Code Power Serving BSS Receive or Reception Satellite Signalling Connection Control Part Secondary CCPCH Synchronisation Channel Space Code Transmit Diversity Service Data Unit System Frame System Frame System Frame Number Shared Control Channel
RT RSCP SBSS Rx Sat SCCP S(-)CCPCH SCH SCH SCTD SDU SF SFN SFN SHCCH SIR	Radio Resource Control Real Time Received Signal Code Power Serving BSS Receive or Reception Satellite Signalling Connection Control Part Secondary CCPCH Synchronisation Channel Space Code Transmit Diversity Service Data Unit System Frame System Frame System Frame Number Shared Control Channel Signal-to-Interference Ratio
RT RSCP SBSS Rx Sat SCCP S(-)CCPCH SCH SCH SCTD SDU SF SFN SHCCH SIR SNA	Radio Resource Control Real Time Received Signal Code Power Serving BSS Receive or Reception Satellite Signalling Connection Control Part Secondary CCPCH Synchronisation Channel Space Code Transmit Diversity Service Data Unit System Frame System Frame System Frame Number Shared Control Channel Signal-to-Interference Ratio Shared Network Area
RT RSCP SBSS Rx Sat SCCP S(-)CCPCH SCH SCTD SDU SF SFN SHCCH SIR SNA SRB2	Radio Resource Control Real Time Received Signal Code Power Serving BSS Receive or Reception Satellite Signalling Connection Control Part Secondary CCPCH Synchronisation Channel Space Code Transmit Diversity Service Data Unit System Frame System Frame System Frame Number Shared Control Channel Signal-to-Interference Ratio Shared Network Area Signalling radio bearer 2
RT RSCP SBSS Rx Sat SCCP S(-)CCPCH SCH SCTD SDU SF SFN SHCCH SIR SNA SRB2 SRNC	Radio Resource Control Real Time Received Signal Code Power Serving BSS Receive or Reception Satellite Signalling Connection Control Part Secondary CCPCH Synchronisation Channel Space Code Transmit Diversity Service Data Unit System Frame System Frame System Frame Number Shared Control Channel Signal-to-Interference Ratio Shared Network Area Signalling radio bearer 2 Serving RNC
RT RSCP SBSS Rx Sat SCCP S(-)CCPCH SCH SCTD SDU SF SFN SHCCH SIR SNA SRB2 SRNC SRNS	Radio Resource Control Real Time Received Signal Code Power Serving BSS Receive or Reception Satellite Signalling Connection Control Part Secondary CCPCH Synchronisation Channel Space Code Transmit Diversity Service Data Unit System Frame System Frame System Frame Number Shared Control Channel Signal-to-Interference Ratio Shared Network Area Signalling radio bearer 2 Serving RNC Serving RNS
RT RSCP SBSS Rx Sat SCCP S(-)CCPCH SCH SCTD SDU SF SFN SHCCH SIR SNA SRB2 SRNC SRNS S-RNTI	Radio Resource Control Real Time Received Signal Code Power Serving BSS Receive or Reception Satellite Signalling Connection Control Part Secondary CCPCH Synchronisation Channel Space Code Transmit Diversity Service Data Unit System Frame System Frame System Frame Number Shared Control Channel Signal-to-Interference Ratio Shared Network Area Signalling radio bearer 2 Serving RNC Serving RNS Serving Radio Network Temporary Identifier
RT RSCP SBSS Rx Sat SCCP S(-)CCPCH SCH SCTD SDU SF SFN SHCCH SIR SNA SRB2 SRNC SRNS S-RNTI SSDT	Radio Resource Control Real Time Received Signal Code Power Serving BSS Receive or Reception Satellite Signalling Connection Control Part Secondary CCPCH Synchronisation Channel Space Code Transmit Diversity Service Data Unit System Frame System Frame System Frame Number Shared Control Channel Signal-to-Interference Ratio Shared Network Area Signalling radio bearer 2 Serving RNC Serving RNS Serving Radio Network Temporary Identifier Site Selection Diversity Transmission

STTD	Space Time Transmit Diversity
TDD	Time Division Duplex
TF	Transport Format
TFCI	Transport Format Combination Indicator
TFCS	Transport Format Combination Set
TFS	Transport Format Set
TGCFN	Transmission Gap Connection Frame Number
TMGI	Temporary Mobile Group Identity
ToAWE	Time of Arrival Window Endpoint
ToAWS	Time of Arrival Window Startpoint
TPC	Transmit Power Control
TrCH	Transport Channel
TS	Time Slot
TSG	Technical Specification Group
TSTD	Time Switched Transmit Diversity
TTI	Transmission Time Interval
TX	Transmit or Transmission
UARFCN	UTRA Absolute Radio Frequency Channel Number
UDP	User Datagram Protocol
UC-ID	UTRAN Cell Identifier
UE	User Equipment
UL	Uplink
UMTS	Universal Mobile Telecommunications System
URA	UTRAN Registration Area
U-RNTI	UTRAN Radio Network Temporary Identifier
USCH	Uplink Shared Channel
UTRA	Universal Terrestrial Radio Access
UTRAN	Universal Terrestrial Radio Access Network

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## 8.3 Dedicated 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 Radio Link Setup procedure is initiated with this RADIO LINK SETUP REQUEST message sent from the SRNC to the DRNC.

Upon receipt of the RADIO LINK SETUP REQUEST message, 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.

If the RADIO LINK SETUP REQUEST message includes the *Allowed Queuing Time* IE the DRNS may queue the request for a time period not to exceed the value of the *Allowed Queuing Time* IE before starting to execute the request.

## UNAFFECTED PARTS REMOVED

#### General:

If the RADIO LINK SETUP REQUEST message includes the *RL Specific DCH Information* IE, the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs.

[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, S-Field Length IE and SSDT Cell Identity Length IE.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Qth Parameter* IE in addition to the *SSDT Cell Identity* IE, the DRNS shall use the *Qth Parameter* IE, if Qth signalling is supported, when SSDT is activated in the concerned new RL.]

[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. If the enhanced DSCH power control is activated and the *TFCI PC Support Indicator* IE is set to "TFCI PC Mode 2 Supported", the primary/secondary status determination in the enhanced DSCH power control shall be applied to the TFCI power control in DSCH hard split mode.]

[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 include in the RADIO LINK SETUP RESPONSE message the *Secondary CCPCH Info* IE for the FACH in which 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 in the RADIO LINK SETUP RESPONSE message the *D-RNTI* IE, the *CN PS Domain Identifier* IE and/or the *CN CS Domain Identifier* IE for the CN domains (using LAC and RAC of the current cell) to which the DRNC is connected.

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

[TDD - If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *UARFCN* IE, the *Cell Parameter ID* IE and the *SCTD Indicator* IE.]

[3.84Mcps TDD - If the *D-RNTI* IE was included in the RADIO LINK SETUP REQUEST message the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Sync Case* IE and if the *Sync Case* IE is set to "Case 2", the DRNC shall also include the *SCH Time Slot* IE in the RADIO LINK SETUP RESPONSE message. If the included *Sync Case* IE is set to "Case1", the DRNC shall also include the *Time Slot For SCH* IE.]

[3.84Mcps 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 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 the SHCCH messages for this radio link will be transmitted over a different secondary CCPCH than selected by the UE from system information.]

[1.28 Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and the SHCCH Info TDD LCR IE in the RADIO LINK SETUP RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* 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 in which at least one URA Identity is being broadcast, the DRNC shall include in the URA Information IE within the RADIO LINK SETUP RESPONSE message URA Innformation for this cell including 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-ID IEsof all other RNCs that have at least one cell within the URA identified by the URA ID IE.

Depending on local configuration in the DRNS, the DRNC may include in the RADIO LINK SETUP RESPONSE message the *UTRAN Access Point Position* IE and the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE. If the DRNC includes the *Cell GA Additional Shapes* IE in the RADIO LINK SETUP RESPONSE message, it shall also include the *Cell GAI* IE.

If the DRNS need to limit the user rate in the uplink of a DCH due to congestion caused by the UL UTRAN Dynamic Resources (see subclause 9.2.1.79) when starting to utilise a new Radio Link, the DRNC shall include in the RADIO LINK SETUP RESPONSE message the *Allowed UL Rate* IE in the *DCH Information Response* IE for this Radio Link.

If the DRNS need to limit the user rate in the downlink of a DCH due to congestion caused by the DL UTRAN Dynamic Resources (see subclause 9.2.1.79) when starting to utilise a new Radio Link, the DRNC

shall include in the RADIO LINK SETUP RESPONSE message the *Allowed DL Rate* IE in the *DCH Information Response* IE 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 DRNS 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 - If the accessed cell supports TFCI power control, the DRNC shall include the *TFCI PC Support Indicator* IE in the RADIO LINK SETUP RESPONSE message.]

The DRNS shall start receiving on the new RL(s) after the RLs are successfully established.

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Cell Portion ID* IE, the DRNS shall use this information when it decides to use beamforming for the new RL.]

[FDD - If the RADIO LINK SETUP REQUEST message includes the *Initial DL DPCH Timing Adjustment Allowed* IE, then the DRNS may perform an initial DL DPCH Timing Adjustment (i.e. perform a timing advance or a timing delay with respect to the SFN timing) on a Radio Link. In this case, the DRNS shall include, for the concerned Radio Link(s), the *Initial DL DPCH Timing Adjustment* IE in the *Radio Link Information Response* IE in the RADIO LINK SETUP RESPONSE message.]

## UNAFFECTED PARTS REMOVED

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## 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 concerned 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.]

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## 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 receipt, 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.

### UNAFFECTED PARTS REMOVED

#### General:

If the RADIO LINK ADDITION REQUEST message includes the *RL Specific DCH Information* IE, the DRNC may use the transport layer address and the binding identifier received from the SRNC when establishing a transport bearer for the DCH or the set of co-ordinated DCHs.

[FDD - If the RADIO LINK ADDITION REQUEST message contains an *SSDT Cell Identity* IE, the DRNS shall, if supported, activate SSDT for the concerned new RL using the indicated SSDT Cell Identity.]

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Qth Parameter* IE in addition to the *SSDT Cell Identity* IE, the DRNS shall use the *Qth Parameter* IE, if Qth signalling is supported, when SSDT is activated in the concerned new RL.]

Depending on local configuration in the DRNS, the DRNC may include in the RADIO LINK ADDITION RESPONSE message the *UTRAN Access Point Position* IE and the geographical co-ordinates of the cell, represented either by the *Cell GAI* IE or by the *Cell GA Additional Shapes* IE. If the DRNC includes the *Cell GA Additional Shapes* IE in the RADIO LINK ADDITION RESPONSE message, it shall also include the *Cell GAI* IE.

For each Radio Link established in a cell in which at least one URA Identity is being broadcast, the DRNC shall include in the RADIO LINK ADDITION RESPONSE message a URA Information for this cell including 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-ID* IEs of all other RNCs that have at least one cell within the URA identified by the *URA ID* IE.

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

[3.84Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD* 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 *Secondary CCPCH Info TDD* 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 the SHCCH 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.]

[1.28 Mcps TDD - The DRNC shall include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and at least one DCH is configured for the radio link. The DRNC shall also include the *Secondary CCPCH Info TDD LCR* IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* IE is included in the message and the SHCCH Info TDD LCR IE in the RADIO LINK ADDITION RESPONSE message if at least one *DSCH Information Response LCR* IE or *USCH Information Response LCR* 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 lifetime 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 - If the accessed cell supports TFCI power control, the DRNC shall include the *TFCI PC Support Indicator* IE in the RADIO LINK ADDITION RESPONSE message.]

The DRNS shall start receiving on the new RL(s) after the RLs are successfully established.

[FDD - If the RADIO LINK ADDITION REQUEST message includes the *Initial DL DPCH Timing Adjustment Allowed* IE, then the DRNS may perform an initial DL DPCH Timing Adjustment (i.e. perform a timing advance or a timing delay with respect to the SFN timing) on a Radio Link. In this case, the DRNS shall include, for the concerned Radio Link(s), the *Initial DL DPCH Timing Adjustment* IE in the *Radio Link Information Response* IE in the RADIO LINK ADDITION RESPONSE message.]

## UNAFFECTED PARTS REMOVED

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## 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 receipt, 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, 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 *DCHs To Modify* IE contains a *DCH Specific Info* IE which 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 *DCHs To Modify* IE contains a *DCH Specific Info* IE which 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 may 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 DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which 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 *DCHs to Modify* IE includes the *TNL QoS* IE for a DCH or a set of co-ordinated DCHs to be modified and if ALCAP is not used, the DRNS may store this information for this DCH in the new configuration. The *TNL QoS* IE may be used to determine the transport bearer characteristics to apply in the uplink for the related DCH or set of co-ordinated DCHs.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Transport Format Set* IE for the DL of a DCH to be modified, the DRNS shall apply the new Transport Format Set in the Downlink of this DCH in the new configuration.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Allocation/Retention Priority* IE, the DRNS shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.
- [FDD—If the DCHs To Modify IE contains a DRAC Control IE set to "requested" and if the DRNS supports the DRAC, the DRNC shall include in the RADIO LINK RECONFIGURATION READY message the Secondary CCPCH Info IE for the FACH in which the DRAC information is sent, for each Radio Link established in a cell in which 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 *DCHs To Modify* IE includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH in the new configuration.]
- [TDD If the *DCHs To Modify* IE includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH in the new configuration.]
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which 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, 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 *DCH Information* IE includes a *DCHs To Add* IE with multiple *DCH Specific Info* IEs, 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.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.
- [TDD If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]
- [FDD For each DCH which do not belong to a set of co-ordinated DCHs and which includes a *QE-Selector* IE set to "selected", the DRNS shall use the Transport channel BER from that DCH for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. [4]. If the *QE-Selector* IE is set to "non-selected", the DRNS shall use the Physical channel BER for the QE in the UL data frames, ref. [4].]
- For a set of co-ordinated DCHs, the DRNS shall use the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" for the QE in the UL data frames, ref. [4]. [FDD If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. [4]. If all DCHs have the *QE-Selector* IE set to "non-selected", the DRNS shall use the Physical channel BER for the QE, ref. [4]. [TDD If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER 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 Uu interface in congestion situations within the DRNS once the new configuration has been activated.
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the DRNS may use this information to determine the transport bearer characteristics to apply for the uplink for the related DCH or set of co-ordinated DCHs.

- The DRNS should store the *Traffic Class* IE received for a DCH to be added in the new configuration. The *Traffic Class* IE may 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 DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".
- 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 Startpoint 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 Endpoint 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 in which the DRAC information is sent, for each radio link supported by a cell in which 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 *DCHs To Add* IE contains a *DCH Specific Info* IE which 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 *DCHs To Add* 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 *DCHs To Add* IE does not include the *Guaranteed DL Rate* IE, the DRNS shall not limit the user rate of the downlink of the DCH.
- [TDD The DRNS shall apply the *CCTrCH ID* IE (for the DL) in the Downlink of this DCH in the new configuration.]
- [TDD The DRNS shall apply the *CCTrCH ID* IE (for the UL) in the Uplink of this DCH in the new configuration.]

## 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 receipt, 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 *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes a *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 *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes a *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 *DCHs To Modify* IE contains a *DCH Specific Info* IE which 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 may 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. The DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the DRNS may use this information to determine the transport bearer characteristics to apply for the uplink for the related DCH or set of co-ordinated DCHs.
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *Allocation/Retention Priority* IE, the DRNS shall apply the new Allocation/Retention Priority to this DCH in the new configuration according to Annex A.
- [FDD If the DRAC Control IE is present and set to "requested" in DCHs To Modify IE for at least one DCH, and if the DRNS supports the DRAC, the DRNC shall include in the RADIO LINK RECONFIGURATION RESPONSE message the Secondary CCPCH Info IE for the FACH in which the DRAC information is sent, for each Radio Link supported by a cell in which DRAC is active.]
- [TDD If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *CCTrCH ID* IE for the UL, the DRNS shall map the DCH onto the referenced UL CCTrCH in the new configuration.]
- [TDD If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which includes the *CCTrCH ID* IE for the DL, the DRNS shall map the DCH onto the referenced DL CCTrCH in the new configuration.]
- If the *DCHs To Modify* IE contains a *DCH Specific Info* IE which 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.
- If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Uplink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the downlink for this DCH. As a consequence this DCH is not included as a part of the downlink CCTrCH.

- [TDD If the *DCH Specific Info* IE includes the *Unidirectional DCH Indicator* IE set to "Downlink DCH only", the DRNS shall ignore the *Transport Format Set* IE for the uplink for this DCH. As a consequence this DCH is not included as a part of the uplink CCTrCH.]
- [FDD For each DCH which does not belong to a set of co-ordinated DCHs, and which includes a *QE-Selector* IE set to "selected", the DRNS shall use the Transport channel BER from that DCH for the QE in the UL data frames. If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. [4]. If the *QE-Selector* IE is set to "non-selected", the DRNS shall use the Physical channel BER for the QE in the UL data frames, ref. [4].]
- For a set of co-ordinated DCHs, the DRNS shall use the Transport channel BER from the DCH with the *QE-Selector* IE set to "selected" for the QE in the UL data frames, ref. [4]. [FDD If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER for the QE, ref. [4]. If all DCHs have the *QE-Selector* IE set to "non-selected", the DRNS shall use the Physical channel BER for the QE, ref. [4].] [TDD If no Transport channel BER is available for the selected DCH, the DRNS shall use the Physical channel BER 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 Uu interface in congestion situations within the DRNS once the new configuration has been activated.
- The *Traffic Class* IE may 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 DRNC should ignore the *Traffic Class* IE if the *TrCH Source Statistics Descriptor* IE indicates the value "RRC".
- If the *TNL QoS* IE is included for a DCH or a set of co-ordinated DCHs and if ALCAP is not used, the DRNS may use this information to determine the transport bearer characteristics to apply for the uplink 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 Startpoint 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 Endpoint 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 include in the RADIO LINK RECONFIGURATION RESPONSE message the Secondary CCPCH Info IE for the FACH in which the DRAC information is sent, for each Radio Link supported by a cell in which 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.

### UNAFFECTED PARTS REMOVED

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# 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
			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		1 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<>			EACH	ignore
		ofRLs>			-	5
>RL ID	М		9.2.1.49		_	
>RL Set ID	M		9.2.2.35		_	
>URA Information	0		92170B		_	
SAI	M		92152			
>Cell GAI	0		9215A			
	0		9.2.1.3/			
Position	0		9.2.1.70A		—	
> Received Total Wide Band	M		022354			
Power	111		9.2.2.33A		_	
	0		NULLO22			
CCPCH Info	0		27P		_	
> DL Code Information	NA					
>DL Code information	IVI				—	
			Local			
	NA		9.2.2.14A			
>CHOICE Diversity	IVI				_	
>>Combining			0.0.4.40	D (	_	
>>>RL ID	M		9.2.1.49	Reference	-	
				RL ID for the		
				combining		
>>>DCH Information	0		9.2.1.16A		YES	ignore
Response	-		_			-
>>>E-DCH FDD	0		9.2.2.4C		YES	ignore
Information Response						
>>Non Combining or First					-	
RL						
>>>DCH Information	M		9.2.1.16A		_	
Response						
>>>E-DCH FDD	M		9.2.2.4C		YES	ignore
Information Response						
>SSDT Support Indicator	Μ		9.2.2.43		_	
>Maximum Uplink SIR	M		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 UL Tx	Μ		9.2.1.35		-	
Power						
>Maximum DL TX Power	М		DL Power		_	
			9.2.1.21A			
>Minimum DL TX Power	M		DL Power		_	
			9.2.1.21A			
>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	Μ		9.2.1.44		—	

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IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and	Description		Criticality
			Reference			
>DSCH Information	0		DSCH		YES	ignore
Response			FDD			
			Information			
			Response			
	0		9.2.2.138			
Information	0		9.2.1.41A		_	
>Neighbouring GSM Cell	0		9.2.1.41C		_	
Information						
>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	0		9.2.2.10B		YES	ignore
Activation Indicator						-
>TFCI PC Support Indicator	0		9.2.2.46A		YES	ignore
>HCS Prio	0		9.2.1.30N		YES	ignore
>Primary CPICH Usage For	0		9.2.2.32A		YES	ignore
Channel Estimation						
>Secondary CPICH	0		9.2.2.38A		YES	ignore
Information						
>E-DCH RL Set ID	0		RL Set ID		YES	ignore
			9.2.2.35			
>E-DCH FDD DL Control	0		9.2.2.4D		YES	ignore
Channel Information		0				
Service List		0 <maxno< td=""><td></td><td></td><td>GLOBAL</td><td>Ignore</td></maxno<>			GLOBAL	Ignore
Service List						
>>TMGI	M	DIVIS>	0 2 1 80		_	
>>Transmission Mode	M		9.2.1.00		_	
	0					ignore
Adjustment	0		Timing		125	ignore
Adjustment			Adjustment			
			9.2.2.9A			
Uplink SIR Target	0		Uplink SIR		YES	ianore
			9.2.1.69			gree
Criticality Diagnostics	0		9.2.1.13		YES	ignore
DSCH-RNTI	0		9.2.1.26Ba		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information	0		HS-DSCH		YES	ignore
Response			FDD			
			Information			
			Response			
	1		9.2.2.19b			

Range bound	Explanation
maxnoofRLs	Maximum number of RLs for one UE.
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in parallel.

## UNAFFECTED PARTS REMOVED

# 9.1.5 RADIO LINK SETUP FAILURE

## 9.1.5.1 FDD Message

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned
			and Reference	Description		Criticality
Message Type	М		92140		YES	reject
Transaction ID	M		9.2.1.59		-	10,000
D-RNTI	0		9.2.1.24		YES	ianore
CN PS Domain Identifier	0		9.2.1.12		YES	ignore
CN CS Domain Identifier	0		9.2.1.11		YES	ignore
CHOICE Cause Level	M		0.2		YES	ignore
>General					-	ightere
>>Cause	М		9215		_	
>RL Specific			0.2.1.0		_	
		1 < maxno			FACH	ignore
Information Response		ofRLs>			Entern	ignore
	М	ONTEOP	92149		_	
	NA		0.2.1.45			
	IVI	0 < maxna	9.2.1.0			ignoro
Bearer Service List		ofActiveM BMS>			GLODAL	ignore
>>>>TMGI	М		9.2.1.80		_	
>>>>Transmission Mode	М		9.2.1.81		_	
>>Successful RL		0 <maxno< td=""><td></td><td></td><td>EACH</td><td>ianore</td></maxno<>			EACH	ianore
Information Response		ofRLs-1>				.9
>>>RL ID	М		9.2.1.49		_	
>>>RL Set ID	M		9.2.2.35		_	
>>>URA Information	0		92170B		_	
>>>SAI	M		92152		_	
	0		92154		_	
>>>UTRAN Access Point	0		921704		_	
Position	Ŭ		5.2.1.7 07			
>>>Received Total Wide	М		9.2.2.35A		-	
>>> <u>Not UsedSecondary</u>	0		<u>NULL</u> 9.2.2. 37B		_	
>>>DL Code Information	М				_	
	171		Code			
			Information 9.2.2.14A			
>>>CHOICE Diversity	М		-		_	
Indication						
>>>Combining					_	
>>>>RL ID	M		9.2.1.49	Reference RL ID for the combining	-	
>>>>DCH Information Response	0		9.2.1.16A		YES	ignore
>>>>E-DCH FDD	0		9.2.2.4C		YES	ignore
>>>Non Combining or					-	
>>>>DCH	М		9.2.1.16A		_	
>>>>E-DCH FDD	0		9.2.2.4C		YES	ignore
>>>SSDT Support	М		9.2.2.43		_	
Indicator						
>>>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>>>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		_	

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference			
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		_	
>>>Primary CPICH Power	М		9.2.1.44		_	
>>>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	0		9.2.2.10B		YES	ignore
>>>TFCI PC Support Indicator	0		9.2.2.46A		YES	ignore
>>>HCS Prio	0		9.2.1.30N		YES	ignore
>>>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
>>>Secondary CPICH Information	0		9.2.2.38A		YES	ignore
>>>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>>>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
>>>Active MBMS Bearer Service List		0 <maxno ofActiveM BMS&gt;</maxno 			GLOBAL	ignore
>>>>TMGI	M		9.2.1.80		_	
>>>>Transmission Mode	М		9.2.1.81		-	
>>>Initial DL DPCH Timing Adjustment	0		DL DPCH Timing Adjustment 9.2.2.9A		YES	ignore
>>DSCH-RNTI	0		9.2.1.26Ba		YES	ignore
>>HS-DSCH-RNTI	0	ļ	9.2.1.30P		YES	ignore
>>HS-DSCH Information Response	0		HS-DSCH FDD Information Response		YES	ignore

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
			9.2.2.19b			
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.				
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in parallel.				

## UNAFFECTED PARTS REMOVED

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# 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	M		9.2.1.40		YES	reject
I ransaction ID	IVI	1 impypoof	9.2.1.59			ignoro
RL Information Response		1 <maxnoor Pl s-1&gt;</maxnoor 			EACH	Ignore
SRI ID	М	TL3-12	92149			
>RL Set ID	M		92235		_	
>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		_	
> <u>Not Used</u> Secondary	0		<u>NULL</u> 9.2.2. 37B		_	
>DL Code Information	М		FDD DL		YES	ianore
			Code			guine
			Information			
			9.2.2.14A			
>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
>>>E-DCH FDD	0		9.2.2.4C		YES	ignore
>>Non Combining					_	
>>>DCH Information	М		9.2.1.16A		_	
Response						
>>>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>SSDT Support Indicator	Μ		9.2.2.43		_	
>Minimum Uplink SIR	М		Uplink SIR 9.2.1.69		_	
>Maximum Uplink SIR	М		Uplink SIR 9.2.1.69		-	
>Closed Loop Timing	0		9.2.2.3A		-	
Adjustment Mode						
>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	0		9.2.1.41C		_	
>PC Preamble	М		9.2.2.27a		_	
>SRB Delay	М		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 Activation Indicator	0		9.2.2.10B		YES	ignore
>TFCI PC Support Indicator	0		9.2.2.46A		YES	ignore
IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
--	----------	--	--	--------------------------	-------------	-------------------------
>HCS Prio	0		9.2.1.30N		YES	ianore
>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
>Active MBMS Bearer Service List		0 <maxnoof ActiveMBM S&gt;</maxnoof 			GLOBAL	ignore
>>TMGI	М		9.2.1.80		-	
>>Transmission Mode	М		9.2.1.81		-	
>Initial DL DPCH Timing Adjustment	0		DL DPCH Timing Adjustment 9.2.2.9.A		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore

Range bound	Explanation		
maxnoofRLs	Maximum number of radio links for one UE.		
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are active in parallel.		

### UNAFFECTED PARTS REMOVED

# 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
			Reference			
Message Type	М		9.2.1.40		YES	reject
Transaction ID	Μ		9.2.1.59		_	
CHOICE Cause Level	Μ				YES	ignore
>General					-	
>>Cause	Μ		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	Μ		9.2.1.49		—	
>>>Cause	Μ		9.2.1.5		-	
>>>Active MBMS		0 <maxnoof< td=""><td></td><td></td><td>GLOBAL</td><td>ignore</td></maxnoof<>			GLOBAL	ignore
Bearer Service List		ActiveMBM				-
		S>				
>>>>TMGI	Μ		9.2.1.80		-	
>>>>Transmission	Μ		9.2.1.81		-	
Mode						
>>Successful RL		0 <maxnoof< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxnoof<>			EACH	ignore
Information Response		RLs-2>				
>>>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	0		9.2.1.70A		_	
Point Position						
>>>Received Total	Μ		9.2.2.35A		-	
Wide Band Power						
>>> <u>Not-</u>	0		<u>NULL</u> 9.2.2.		-	
Used Secondary			37B			
CCPCH Info						
>>>DL Code	Μ		FDD DL		YES	ignore
Information			Code			
			Information			
			9.2.2.14A			
>>>CHOICE Diversity	Μ				-	
Indication						
>>>>Combining					_	
>>>>RL ID	Μ		9.2.1.49	Reference	-	
				RL ID		
>>>>DCH	0		9.2.1.16A		YES	ignore
Information						
Response						
>>>>E-DCH FDD	М		9.2.2.4C		YES	ignore
Information						
Response					-	
>>>Non Combining					_	
>>>>DCH	M		9.2.1.16A		-	
Information						
Response			0.0.0.40		N/50	
>>>>E-DCH FDD	IVI		9.2.2.4C		YES	ignore
Information						
	N.4		0.0.0.40			
>>>>>UI Support	IVI		9.2.2.43		_	
	N.4		Liplink OID			
>>>iviinimum Upiink	IVI				_	
	N.4		9.2.1.09			
>>>iviaximum UpiinK	IVI				_	
	0		9.2.1.09			
>>>Ciosea Loop Timing	0		9.2.2.3A		—	

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IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Adjustment Mode			Reference			
>>>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		-	
>>>Primary CPICH Power	М		9.2.1.44		-	
>>>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	0		9.2.2.10B		YES	ignore
>>>TFCI PC Support Indicator	0		9.2.2.46A		YES	ignore
>>>HCS Prio	0		9.2.1.30N		YES	ignore
>>>Primary CPICH Usage For Channel Estimation	0		9.2.2.32A		YES	ignore
>>>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>>>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
>>>Active MBMS Bearer Service List		0 <maxnoof ActiveMBM S&gt;</maxnoof 			GLOBAL	ignore
>>>TMGI	М		9.2.1.80		—	
>>>>Transmission Mode	М		9.2.1.81		-	
>>>Initial DL DPCH Timing Adjustment	0		DL DPCH Timing Adjustment 9.2.2.9.A		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ianore

Range bound	Explanation		
maxnoofRLs	Maximum number of radio links for one UE.		
maxnoofActiveMBMS	Maximum number of MBMS bearer services that are		
	active in parallel.		

### UNAFFECTED PARTS REMOVED

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# 9.1.12 RADIO LINK RECONFIGURATION READY

## 9.1.12.1 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	Μ		9.2.1.59		_	
RL Information Response		0 <maxno< td=""><td></td><td></td><td>EACH</td><td>ignore</td></maxno<>			EACH	ignore
		ofRLs>				
>RL ID	Μ		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			
> <u>Not Used</u> Secondary	0		<u>NULL<del>9.2.2.</del></u>		-	
CCPCH Info			<del>37B</del>			
>DL Code Information	0		FDD DL		YES	ignore
			Code			
			Information			
			9.2.2.14A			
>DCH Information	0		9.2.1.16A		YES	ignore
Response						
>DSCHs to be Added or	0		DSCH		YES	ignore
Modified			FDD			
			Information			
			Response			
			9.2.2.13B			
>DL Power Balancing	0		9.2.2.10D		YES	ignore
Updated Indicator						
>Primary CPICH Usage	0		9.2.2.32A		YES	ignore
For Channel Estimation						
>Secondary CPICH	0		9.2.2.38B		YES	ignore
Information Change						
>E-DCH FDD Information	0		9.2.2.4C		YES	ignore
Response	-					
>E-DCH RL Set ID	0		RL Set ID		YES	ignore
			9.2.2.35			
>E-DCH FDD DL Control	0		9.2.2.4D		YES	ignore
Channel Information						
Criticality Diagnostics	0		9.2.1.13		YES	ignore
DSCH-RNTI	0		9.2.1.26Ba		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information	0		HS-DSCH		YES	ignore
Response			FDD			
			Information			
			Response			
			9.2.2.19b			-
MAC-hs Reset Indicator	0		9.2.1.34B		YES	ignore

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

### UNAFFECTED PARTS REMOVED

# 9.1.17 RADIO LINK RECONFIGURATION RESPONSE

## 9.1.17.1 FDD Message

IE/Group Name	Presence	Range	IE Type and	Semantics Description	Criticality	Assigned Criticality
			Reference	-		
Message Type	М		9.2.1.40		YES	reject
Transaction ID	М		9.2.1.59		-	
RL Information Response		0 <maxno ofRLs&gt;</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		Ι	
> <u>Not Used</u> Secondary CCPCH Info	0		<u>NULL</u> 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	0		9.2.2.10D		YES	ignore
>E-DCH FDD Information Response	0		9.2.2.4C		YES	ignore
>E-DCH RL Set ID	0		RL Set ID 9.2.2.35		YES	ignore
>E-DCH FDD DL Control Channel Information	0		9.2.2.4D		YES	ignore
Criticality Diagnostics	0		9.2.1.13		YES	ignore
HS-DSCH-RNTI	0		9.2.1.30P		YES	ignore
HS-DSCH Information Response	0		HS-DSCH FDD Information Response 9.2.2.19b		YES	ignore
MAC-hs Reset Indicator	0	1	9.2.1.34B		YES	ignore

Range Bound	Explanation
maxnoofRLs	Maximum number of RLs for a UE.

### UNAFFECTED PARTS REMOVED

9.2.2.4 Compressed Mode Method

Void

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## 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 and Reference	Semantics Description	Criticality	Assigned Criticality
DCH FDD Information		1 <maxno ofDCHs&gt;</maxno 			-	
>Payload CRC Presence Indicator	М		9.2.1.42		-	
>UL FP Mode	Μ		9.2.1.67		_	
>ToAWS	Μ		9.2.1.58		_	
>ToAWE	Μ		9.2.1.57		-	
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			-	
>>DCH ID	Μ		9.2.1.16		_	
>>TrCH Source Statistics Descriptor	Μ		9.2.1.65		-	
>>Transport Format Set	Μ		9.2.1.64	For the UL.	_	
>>Transport Format Set	Μ		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	М		9.2.1.1		-	
>>Frame Handling Priority	Μ		9.2.1.29		-	
>>QE-Selector	Μ		9.2.1.46A		-	
>> <u>Not Used</u> DRAC control	М		<u>NULL</u> 9.2.2. <del>13</del>		-	
>>Guaranteed Rate Information	0		9.2.1.30M		YES	ignore
>>Traffic Class	Μ		9.2.1.58A		YES	ignore
>>Unidirectional DCH Indicator	0		9.2.1.68B		YES	reject
>TNL QoS	0		9.2.1.56A		YES	ignore

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE.

### UNAFFECTED PARTS REMOVED

## 9.2.2.13 DRAC Control

Void.

### This IE indicates whether the DCH is control by DRAC or not.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DRAC Control			ENUMERAT ED (Requested, Not- Requested)	Requested means that DCH is controlled by DRAC

#### **UNAFFECTED PARTS REMOVED**

### 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
FDD DCHs To Modify		1 <maxno ofDCHs&gt;</maxno 	Reference		_	
>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&gt;</maxno 			-	
>>DCH ID	М		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		-	
>> <u>Not Used</u> DRAC Control	0		<u>NULL</u> 9.2.2. <del>13</del>		-	
>>Guaranteed Rate	0		9.2.1.30M		YES	ignore
>>Traffic Class	0		9.2.1.58A		YES	ignore
>TNL QoS	0		9.2.1.56A		YES	ignore

Range bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE.

### UNAFFECTED PARTS REMOVED

#### 9.2.2.15 FDD S-CCPCH Offset

Void.

The Secondary CCPCH offset is defined as the time offset towards the Primary CCPCH in the cell. The offset is a multiple of 256 chips.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
			Reference	
FDD S-CCPCH Offset			INTEGER(0.	<del>0: 0 chip</del>
			<del>. 149)</del>	1: 256 chip
				<del>2: 512 chip</del>
				<del>149: 38144 chip</del>
				ref. [8]

### **UNAFFECTED PARTS REMOVED**

## 9.2.2.20 IB\_SG\_POS

### Void.

First position of an Information Block segment in the SFN cycle (IB\_SG\_POS < IB\_SG\_REP).

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IB_SG_POS			INTEGER (04094)	Only even positions allowed. Reference [16]

### 9.2.2.21 IB\_SG\_REP

Void.

Repetition distance for an Information Block segment. The segment shall be transmitted when SFN mod IB\_SG\_REP = IB\_SG\_POS.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
IB_SG_REP			ENUMERAT ED(4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048,	Repetition period for the IB segment in frames

## UNAFFECTED PARTS REMOVED

### 9.2.2.37B Secondary CCPCH Info

Void.

The Secondary CCPCH Info IE provides information on scheduling of broadcast information for DRAC on a Secondary CCPCH in one cell.

\_\_\_\_\_

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
FDD-S-CCPCH Offset	М		<del>9.2.2.15</del>	Corresponds	_	
				ref. [8]		
DL Scrambling Code	М		<del>9.2.2.11</del>		_	
EDD DL Channelisation Code	M		<del>9.2.2.14</del>		-	
TECS	M		9.2.1.63	For the DL.	_	
Secondary CCPCH Slot	M		9.2.2.38		_	
Format						
TFCI Presence	<del>C_</del>		<del>9.2.1.55</del>		-	
Multiploving Depition	SiotFormat		0.0.0.00			
OTTD Indicator	111		<del>9.2.2.20</del>		_	
EACH/DCH Information	<del>IVI</del>	1	<del>9.2.2.44</del>		_	
FAGH/FGH IIIIOHIIation		+			_	
		Hcount+1>				
→TFS			<del>9.2.1.64</del>	For each	_	
				FACH, and		
				multiplexed		
				on the same		
				Secondary		
				CCPCH		
IB-Scheduling Information		4			_	
→IB_SG_REP	M	-	9.2.2.21		_	
>IB Segment Information		1			_	
		<maxibse< td=""><td></td><td></td><td></td><td></td></maxibse<>				
		<del>G&gt;</del>				
<mark>→&gt;IB_SG_POS</mark>	М		<del>9.2.2.20</del>		_	

Condition	Explanation
SlotFormat	The IE shall be present if the Secondary CCPCH Slot Format IE is
	equal to any of the values from 8 to 17.

Range bound	Explanation
maxFACHCount	Maximum number of FACHs mapped onto a Secondary CCPCH.
maxIBSEG	Maximum number of segments for one Information Block.

## 9.2.2.38 Secondary CCPCH Slot Format

Void.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Secondary CCPCH Slot Format			INTEGER(0.	<del>See ref. [8].</del>
			<del>.17,)</del>	

### UNAFFECTED PARTS REMOVED

## 9.3.3 PDU Definitions

--- 1 --- 1

-- 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,
Active-MBMS-Bearer-Service-ListFDD,
Active-MBMS-Bearer-Service-ListTDD,
AllocationRetentionPriority,
AllowedQueuingTime,
Allowed-Rate-Information,
AlphaValue,
AntennaColocationIndicator,
BLER,
SCTD-Indicator,
BindingID,
C-ID,
C-RNTI,
CCTrCH-ID,
CFN,
CGI,
ClosedLoopModel-SupportIndicator,
ClosedLoopMode2-SupportIndicator,
Closedlooptimingadjustmentmode,
CN-CS-DomainIdentifier,
CN-PS-DomainIdentifier,
CNDomainType,
Cause,
CellCapabilityContainer-FDD,
CellCapabilityContainer-TDD,
CellCapabilityContainer-TDD-LCR,
CellParameterID,
```

DSCH-FDD-Information,

EDCH-FDD-Information,

DSCH-ID, DSCH-RNTI,

DSCH-FDD-InformationResponse, DSCH-FlowControlInformation, DSCH-FlowControlItem, DSCH-TDD-Information.

Data-Description-IndicatorList,

EDCH-FDD-InformationResponse,

CellPortionID, ChipOffset, CommonMeasurementAccuracy, CommonMeasurementType, CommonMeasurementValue. CommonMeasurementValueInformation, CommonTransportChannelResourcesInitialisationNotRequired, CongestionCause, CoverageIndicator, 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-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, DL-DPCH-TimingAdjustment, DRACControl, DRXCycleLengthCoefficient, DedicatedMeasurementType, DedicatedMeasurementValue, DedicatedMeasurementValueInformation, DelayedActivation, DelayedActivationUpdate, DiversityControlField, DiversityMode,

EDCH-FDD-Information-To-Modify, EDCH-FDD-DL-ControlChannelInformation, EDCH-DDI-Value. EDCH-MACdFlow-ID, EDCH-MACdFlow-Specific-InfoList, EDCH-MACdFlows-To-Delete, EDCH-Physical-Layer-Category, EDCH-RL-Indication, EDPCH-Information-FDD, E-RNTI, E-TFCS, E-TTI, 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, HCS-Prio, HSDSCH-FDD-Information, HSDSCH-FDD-Information-Response, HSDSCH-FDD-Update-Information, HSDSCH-TDD-Update-Information, HSDSCH-Information-to-Modify, HSDSCH-Information-to-Modify-Unsynchronised, HSDSCH-MACdFlow-ID, HSDSCH-MACdFlows-Information, HSDSCH-MACdFlows-to-Delete, HSDSCH-RNTI, HSDSCH-TDD-Information, HSDSCH-TDD-Information-Response, HS-SICH-ID, IMSI, InformationExchangeID, InformationReportCharacteristics, InformationType, Initial-DL-DPCH-TimingAdjustment-Allowed,

InnerLoopDLPCStatus, L3-Information, SplitType, LengthOfTFCI2, LimitedPowerIncrease. MaximumAllowedULTxPower, MaxNrDLPhysicalchannels, MaxNrDLPhysicalchannelsTS, MaxNrOfUL-DPCHs, MaxNrTimeslots, MaxNrULPhysicalchannels, MACes-Guaranteed-Bitrate, MaxNr-Retransmissions-EDCH, MaxNrUL-EDPDCHs. MinULChannelisationCodeLength-EDCH-FDD, MeasurementFilterCoefficient, MeasurementID, MeasurementRecoveryBehavior, MeasurementRecoveryReportingIndicator, MeasurementRecoverySupportIndicator, MBMS-Bearer-Service-List, MidambleAllocationMode, MidambleShiftAndBurstType, MidambleShiftLCR, MinimumSpreadingFactor, MinUL-ChannelisationCodeLength, MultiplexingPosition, NeighbouringFDDCellMeasurementInformation, NeighbouringTDDCellMeasurementInformation, Neighbouring-GSM-CellInformation, Neighbouring-UMTS-CellInformation, NeighbouringTDDCellMeasurementInformationLCR, NrOfDLchannelisationcodes, PagingCause, PagingRecordType, PartialReportingIndicator, PDSCHCodeMapping, PayloadCRC-PresenceIndicator, PCCPCH-Power, PC-Preamble, Permanent-NAS-UE-Identity, Phase-Reference-Update-Indicator, PowerAdjustmentType, PowerOffset, PrimaryCCPCH-RSCP, PrimaryCPICH-EcNo, PrimaryCPICH-Power, Primary-CPICH-Usage-For-Channel-Estimation, PrimaryScramblingCode, PropagationDelay, PunctureLimit,

QE-Selector, Oth-Parameter, RANAP-RelocationInformation. RB-Info, RL-ID. RL-Set-ID, RL-Specific-EDCH-Information, RNC-ID, RepetitionLength, RepetitionPeriod, ReportCharacteristics, Received-total-wide-band-power, RequestedDataValue, RequestedDataValueInformation, RL-Specific-DCH-Info, RxTimingDeviationForTA, S-FieldLength, S-RNTI, S-RNTI-Group, SCH-TimeSlot, SAI, SFN, Secondary-CCPCH-Info, Secondary-CCPCH-Info-TDD, Secondary-CPICH-Information, Secondary-CPICH-Information-Change, Secondary-LCR-CCPCH-Info-TDD, SNA-Information, SpecialBurstScheduling, SSDT-CellID, SSDT-CellID-Length, SSDT-Indication, SSDT-SupportIndicator, STTD-Indicator, STTD-SupportIndicator, AdjustmentPeriod, ScaledAdjustmentRatio, MaxAdjustmentStep, SecondaryCCPCH-SlotFormat, SRB-Delay, Support-8PSK, 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,

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3GPP

TDD-UL-Code-Information, TDD-UL-Code-LCR-Information. TFCI-Coding. TFCI-PC-SupportIndicator, TFCI-Presence, TFCI-SignallingMode, TimeSlot, TimeSlotLCR, TimingAdvanceApplied, TMGI, TnlQos, TOAWE, TOAWS, TraceDepth, TraceRecordingSessionReference, TraceReference, TrafficClass, TransmitDiversityIndicator, TransportBearerID, TransportBearerRequestIndicator, TFCS, Transmission-Gap-Pattern-Sequence-Information, TransmissionMode, TransportFormatManagement, TransportFormatSet, TransportLayerAddress, TrCH-SrcStatisticsDescr, TSTD-Indicator, TSTD-Support-Indicator, UARFCN, UC-ID, UEIdentity, UEMeasurementType, UEMeasurementTimeslotInfoHCR, UEMeasurementTimeslotInfoLCR, UEMeasurementReportCharacteristics, UEMeasurementParameterModAllow, UEMeasurementValueInformation, UE-State, UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation, UE-Support-Of-Dedicated-Pilots-For-Channel-Estimation-Of-HS-DSCH, UL-DPCCH-SlotFormat, UL-DPDCHIndicatorEDCH, 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,

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URA-ID, URA-Information, USCH-ID, USCH-Information, UL-Synchronisation-Parameters-LCR, TDD-DL-DPCH-TimeSlotFormat-LCR, TDD-UL-DPCH-TimeSlotFormat-LCR, MAChs-ResetIndicator, UL-TimingAdvanceCtrl-LCR, TDD-TPC-UplinkStepSize-LCR, PrimaryCCPCH-RSCP-Delta

#### **UNAFFECTED PARTS REMOVED**

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\*\*\*\*\*\* \_ \_ -- RADIO LINK SETUP RESPONSE FDD \*\*\*\*\*\*\*\*\*\*\* RadioLinkSetupResponseFDD ::= SEQUENCE { ProtocolIE-Container {{RadioLinkSetupResponseFDD-IEs}}, protocolIEs ProtocolExtensionContainer {{RadioLinkSetupResponseFDD-Extensions}} protocolExtensions OPTIONAL, . . . } RadioLinkSetupResponseFDD-IEs RNSAP-PROTOCOL-IES ::= { ID id-D-RNTI CRITICALITY ignore TYPE D-RNTI PRESENCE optional ID id-CN-PS-DomainIdentifier CRITICALITY ignore TYPE CN-PS-DomainIdentifier PRESENCE optional ID id-CN-CS-DomainIdentifier CRITICALITY ignore TYPE CN-CS-DomainIdentifier PRESENCE optional ID id-RL-InformationResponseList-RL-SetupRspFDD CRITICALITY ignore TYPE RL-InformationResponseList-RL-SetupRspFDD PRESENCE mandatory } ID id-UL-SIRTarget CRITICALITY ignore TYPE UL-SIR PRESENCE optional } | { ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional }, . . . } ::= SEQUENCE (SIZE (1..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationResponseItemIEs-RL-RL-InformationResponseList-RL-SetupRspFDD 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-TD RL-ID,

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}

rL-Set-ID	RL-Set-ID,
uRA-Information	URA-Information OPTIONAL,
SAI	SAI,
gA-Cell	GA-Cell OPTIONAL,
gA-AccessPointPosition	GA-AccessPointPosition OPTIONAL,
received-total-wide-band-power	Received-total-wide-band-power,
<u>not-Used-</u> secondary-CCPCH-Info	NULLSecondary CCPCH Info OPTIONAL,
dl-CodeInformation	FDD-DL-CodeInformation,
diversityIndication	DiversityIndication-RL-SetupRspFDD,
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-CellInformati	on Neighbouring-UMTS-CellInformation OPTIONAL,
neighbouring-GSM-CellInformatio	n Neighbouring-GSM-CellInformation OPTIONAL,
pC-Preamble	PC-Preamble,
sRB-Delay	SRB-Delay,
iE-Extensions	ProtocolExtensionContainer { {RL-InformationResponseItem-RL-SetupRspFDD-ExtIEs} } OPTIONAL,

#### UNAFFECTED PARTS REMOVED

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\_ \_ \_ \_ -- RADIO LINK SETUP FAILURE FDD \_ \_ \_ \_ RadioLinkSetupFailureFDD ::= SEQUENCE { protocolIEs ProtocolIE-Container {{RadioLinkSetupFailureFDD-IEs}}, protocolExtensions ProtocolExtensionContainer {{RadioLinkSetupFailureFDD-Extensions}} OPTIONAL, . . . } RadioLinkSetupFailureFDD-IEs RNSAP-PROTOCOL-IES ::= { { ID id-D-RNTI CRITICALITY ignore TYPE D-RNTI PRESENCE optional } |

```
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                                                                            43
                                                                                                                     Error! No text of specified style in document.
      ID id-CN-PS-DomainIdentifier
                                             CRITICALITY ignore TYPE CN-PS-DomainIdentifier
                                                                                                    PRESENCE optional
      ID id-CN-CS-DomainIdentifier
                                             CRITICALITY ignore TYPE CN-CS-DomainIdentifier
                                                                                                    PRESENCE optional }
      ID id-CauseLevel-RL-SetupFailureFDD
                                                         CRITICALITY ignore
                                                                                TYPE CauseLevel-RL-SetupFailureFDD
                                                                                                                         PRESENCE mandatory } |
      ID id-UL-SIRTarget
                                        CRITICALITY ignore TYPE UL-SIR
                                                                                          PRESENCE optional }
     ID id-CriticalityDiagnostics
                                             CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                                    PRESENCE optional },
    . . .
CauseLevel-RL-SetupFailureFDD ::= CHOICE {
                        GeneralCauseList-RL-SetupFailureFDD,
    generalCause
                        RLSpecificCauseList-RL-SetupFailureFDD,
    rLSpecificCause
    . . .
}
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,
                                                 ProtocolExtensionContainer { { RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs } }
    iE-Extensions
                                                                                                                                    OPTIONAL,
    . . .
RLSpecificCauseItem-RL-SetupFailureFDD-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
      ID id-DSCH-RNTI
                                                 CRITICALITY ignore
                                                                         EXTENSION DSCH-RNTI
                                                                                                                         PRESENCE optional }
      ID id-HSDSCH-RNTI
                                                 CRITICALITY ignore
                                                                                                                         PRESENCE optional }
                                                                         EXTENSION HSDSCH-RNTI
     ID id-HSDSCH-FDD-Information-Response
                                                 CRITICALITY ignore
                                                                         EXTENSION HSDSCH-FDD-Information-Response
                                                                                                                         PRESENCE optional },
    . . .
}
UnsuccessfulRL-InformationResponseList-RL-SetupFailureFDD ::= SEOUENCE (SIZE (1..maxNrOfRLs)) OF ProtocollE-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 ::= { { ID id-Active-MBMS-Bearer-ServiceFDD CRITICALITY ignore EXTENSION Active-MBMS-Bearer-Service-ListFDD PRESENCE optional }, . . . ļ 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-ID RL-ID, rL-Set-ID RL-Set-ID, uRA-Information URA-Information OPTIONAL, sAI SAI, qA-Cell GA-Cell OPTIONAL, gA-AccessPointPosition GA-AccessPointPosition OPTIONAL, received-total-wide-band-power Received-total-wide-band-power, not-Used-secondary-CCPCH-Info NULLSecondary CCPCH Info OPTIONAL. dl-CodeInformation FDD-DL-CodeInformation, diversityIndication DiversityIndication-RL-SetupFailureFDD, 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, UARFCN dL-UARFCN OPTIONAL, DSCH-InformationResponseList-RL-SetupFailureFDD dSCH-InformationResponse-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, ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-SetupFailureFDD-ExtIEs} } OPTIONAL, iE-Extensions . . .

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**UNAFFECTED PARTS REMOVED** 

```
**********
_ _
-- RADIO LINK ADDITION RESPONSE FDD
          *******
RadioLinkAdditionResponseFDD ::= SEQUENCE {
   protocolIEs
                                  ProtocolIE-Container
                                                             {{RadioLinkAdditionResponseFDD-IEs}},
   protocolExtensions
                                  ProtocolExtensionContainer {{RadioLinkAdditionResponseFDD-Extensions}}
                                                                                                                        OPTIONAL,
    . . .
}
RadioLinkAdditionResponseFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-RL-InformationResponseList-RL-AdditionRspFDD
                                                         CRITICALITY ignore TYPE RL-InformationResponseList-RL-AdditionRspFDD
                                                                                                                                PRESENCE mandatory
     ID id-CriticalityDiagnostics
                                          CRITICALITY ignore TYPE CriticalityDiagnostics
                                                                                              PRESENCE optional },
    . . .
}
RL-InformationResponseList-RL-AdditionRspFDD
                                                  ::= 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,
   not-Used-secondary-CCPCH-Info
                                          NULLSecondary-CCPCH-Info
                                                                         OPTIONAL,
   dl-CodeInformation
                                  DL-CodeInformationList-RL-AdditionRspFDD,
   diversityIndication
                                  DiversityIndication-RL-AdditionRspFDD,
    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 OPTIONAL,
   neighbouring-GSM-CellInformation
   pC-Preamble
                                      PC-Preamble,
```

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<pre>sRB-Delay primaryCPICH-Power iE-Extensions }</pre>	SRB-Delay, PrimaryCPICH-Power, ProtocolExtensionContainer { {RL-InformationResponseItem-R	L-AdditionRspFDD-ExtIEs} } OPTIONAL,
	UNAFFECTED PARTS REMOVED	
***********************************	*****	
RADIO LINK ADDITION FAILURE FDD  *******************************	*****	
RadioLinkAdditionFailureFDD ::= SEQUE protocolIEs E protocolExtensions E  }	NCE { rotocolIE-Container {{RadioLinkAdditionFailureFDD-IEs}} rotocolExtensionContainer {{RadioLinkAdditionFailureFDD-ExtensionContainer {	, sions}} OPTIONAL,
<pre>RadioLinkAdditionFailureFDD-IEs RNSAF     { ID id-CauseLevel-RL-AdditionFai     PRESENCE mandatory }      { ID id-CriticalityDiagnostics  }</pre>	-PROTOCOL-IES ::= { lureFDD CRITICALITY ignore T CRITICALITY ignore TYPE CriticalityDiagnostics F	YPE CauseLevel-RL-AdditionFailureFDD RESENCE optional },
CauseLevel-RL-AdditionFailureFDD ::= generalCause GeneralCauseI rLSpecificCause RLSpecificCau 	CHOICE { ist-RL-AdditionFailureFDD, seList-RL-AdditionFailureFDD,	
GeneralCauseList-RL-AdditionFailureFL cause iE-Extensions  }	D ::= SEQUENCE { Cause, ProtocolExtensionContainer { { GeneralCauseItem-RL	-AdditionFailureFDD-ExtIEs} } OPTIONAL,
<pre>GeneralCauseItem-RL-AdditionFailureFL  }</pre>	D-ExtIES RNSAP-PROTOCOL-EXTENSION ::= {	
RLSpecificCauseList-RL-AdditionFailur unsuccessful-RL-InformationRespLi	eFDD ::= SEQUENCE { st-RL-AdditionFailureFDD UnsuccessfulRL-InformationResp	onseList-RL-AdditionFailureFDD,

```
Error! No text of specified style in document.
                                                                            47
                                                                                                                     Error! No text of specified style in document.
    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 ::= {
    { ID id-Active-MBMS-Bearer-ServiceFDD
                                                                                                                            PRESENCE optional },
                                                 CRITICALITY ignore
                                                                         EXTENSION Active-MBMS-Bearer-Service-ListFDD
    . . .
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,
    sAT
                                        SAT.
    gA-Cell
                                        GA-Cell
                                                     OPTIONAL,
    gA-AccessPointPosition
                                        GA-AccessPointPosition
                                                                     OPTIONAL,
    received-total-wide-band-power
                                        Received-total-wide-band-power,
    not-Used-secondary-CCPCH-Info
                                                 NULLSecondary-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,
```

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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-Delay	SRB-Delay,
iE-Extensions	ProtocolExtensionContainer { {SuccessfulRL-InformationResponse-RL-AdditionFailureFDD-ExtIEs} } OPTIONAL,

#### UNAFFECTED PARTS REMOVED

```
_ _
-- RADIO LINK RECONFIGURATION READY FDD
RadioLinkReconfigurationReadyFDD ::= SEQUENCE {
   protocolIEs
                                ProtocolIE-Container
                                                         {{RadioLinkReconfigurationReadyFDD-IEs}},
                                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 },
    . . .
}
RL-InformationResponseList-RL-ReconfReadyFDD
                                              ::= SEQUENCE (SIZE (0..maxNrOfRLs)) OF ProtocolIE-Single-Container { {RL-InformationResponse-RL-
ReconfReadyFDD-IEs } }
RL-InformationResponse-RL-ReconfReadyFDD-IEs RNSAP-PROTOCOL-IES ::= {
     ID id-RL-InformationResponseItem-RL-ReconfReadyFDD CRITICALITY ignore TYPE RL-InformationResponseItem-RL-ReconfReadyFDD
                                                                                                                        PRESENCE mandatory
}
RL-InformationResponseItem-RL-ReconfReadyFDD ::= SEQUENCE {
   rL-ID
                                RL-ID,
```

#### Error! No text of specified style in document. 49 Error! No text of specified style in document. max-UL-SIR UL-SIR OPTIONAL, min-UL-SIR UL-SIR OPTIONAL, maximumDLTxPower DL-Power OPTIONAL. minimumDLTxPower DL-Power OPTIONAL, not-Used-secondary-CCPCH-Info NULLSecondary-CCPCH-Info OPTIONAL. dl-CodeInformationList DL-CodeInformationList-RL-ReconfReadyFDD OPTIONAL, dCHInformationResponse DCH-InformationResponseList-RL-ReconfReadyFDD OPTIONAL, dSCHsToBeAddedOrModified DSCHsToBeAddedOrModified-RL-ReconfReadvFDD OPTIONAL, iE-Extensions ProtocolExtensionContainer { {RL-InformationResponseItem-RL-ReconfReadyFDD-ExtIEs } } OPTIONAL, UNAFFECTED PARTS REMOVED \_ \_ -- RADIO LINK RECONFIGURATION RESPONSE FDD RadioLinkReconfigurationResponseFDD ::= SEQUENCE { ProtocolIE-Container {{RadioLinkReconfigurationResponseFDD-IEs}}, protocolIEs 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 } RL-InformationResponseItem-RL-ReconfRspFDD ::= SEQUENCE { rL-TD RL-ID, max-UL-SIR UL-SIR OPTIONAL, min-UL-SIR UL-SIR OPTIONAL,

Error! No text of specified style in docume		50	Error! No text of specified style in document.	
maximumDLTxPower minimumDLTxPower <u>not-Used</u> -secondary-CCPCH-Info dCHsInformationResponseList dL-CodeInformationList-RL-Reco	DL-Power DL-Power <u>NULLS</u> DCH-Informati nfResp DL-Co	OPTIONAL, OPTIONAL, econdary-CCPCH-Info onResponseList-RL-Rec deInformationList-RL-	OPTIONAL, confRspFDD OPTIONAL, -ReconfRspFDD OPTIO	JAL,
iE-Extensions  }	ProtocolExter	sionContainer { {RL-]	InformationResponsel	<pre>:em-RL-ReconfRspFDD-ExtIEs} } OPTIONAL,</pre>
		UNAFFEC	TED PARTS REMOVI	ED

## 9.3.4 Information Element Definitions

}



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

DCH-Specific-FDD-Item ::= SEQUENCE {	
dCH-ID	DCH-ID,
trCH-SrcStatisticsDescr	TrCH-SrcStatisticsDescr,
ul-transportFormatSet	TransportFormatSet,
dl-transportFormatSet	TransportFormatSet,
ul-BLER	BLER,
dl-BLER	BLER,
allocationRetentionPriority	AllocationRetentionPriority,
frameHandlingPriority	FrameHandlingPriority,
qE-Selector	QE-Selector,
not-Used-dRACControl	NULL <del>DRACControl</del> ,
iE-Extensions	ProtocolExtensionContainer { {DCH-FDD-SpecificItem-ExtIEs} } OPTIONAL,

### UNAFFECTED PARTS REMOVED

DRACControl ::= ENUMERATED { 	
	UNAFFECTED PARTS REMOVED
<pre>FDD-DCHs-to-ModifySpecificItem ::=     dCH-ID     ul-TransportformatSet     dl-TransportformatSet     allocationRetentionPriority     frameHandlingPriority     not-Used-dRACControl     iE-Extensions  }</pre>	SEQUENCE { DCH-ID, TransportFormatSet OPTIONAL, TransportFormatSet OPTIONAL, AllocationRetentionPriority OPTIONAL, FrameHandlingPriority OPTIONAL, NULLDRCControl OPTIONAL, ProtocolExtensionContainer { {FDD-DCHs-to-ModifySpecificItem-ExtIEs} } OPTIONAL,
	UNAFFECTED PARTS REMOVED
I	
IB-SchedulingInformation::= SEQUENC iB-SG-Rep iB-segmentInformationList iE-Extensions  }	CE { — IB-SG-REP, — IB-SegmentInformationList, — ProtocolExtensionContainer { { IB-SchedulingInformation-ExtIEs } } OPTIONAL,
HB-SchedulingInformation-ExtIEs RNS	SAP-PROTOCOL-EXTENSION ::= {
}	NCE (SIZE(1,_maxIBSEG)) OF IB-SegmentInformationItem
IB-SegmentInformationItem ::= SEQUI	INCE { IB-SG-POS, BrotogolExtongionContainor { { IB SegmentInformationItem_ExtIEs } } OPTIONAL
	FIOLOCOTEXCENSIONCONCATHER ( ) IB Segmentinionmationitem Extits ) OFFIONAL,

Error! No text of specified style in document.

IB-SegmentInformationItem ExtIEs RNSAP PROTOCOL EXTENSION ::= {

----

}

IB SG REP ::= ENUMERATED {rep4, rep8, rep16, rep32, rep64, rep128, rep256, rep512, rep1024, rep2048, rep4096}

#### UNAFFECTED PARTS REMOVED

52

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

-- Adjustmentratio = ScaledAdjustmentratio / 100

Secondary-CCPCH-Info::= SEQUENCE {	
fDD-S-CCPCH-Offset	-FDD-S-CCPCH-Offset,
	-DL ScramblingCode,
fDD-DL-ChannelisationCodeNumber	FDD DL ChannelisationCodeNumber,
	-TFCS -
<pre>secondaryCCPCH-SlotFormat</pre>	-SecondaryCCPCH-SlotFormat,
tFCI-Presence	TFCI-Presence OPTIONAL,
	Secondary CCPCH Slot Format IE is equal to any of the values from 8 to 17
multiplexingPosition	MultiplexingPosition,
	STTD Indicator,
<u>fACH-PCH-InformationList</u>	FACH PCH InformationList,
	-IB-SchedulingInformation,
	-ProtocolExtensionContainer { { Secondary-CCPCH-Info-ExtIEs } } OPTIONAL,
····	
+	

Secondary CCPCH Info ExtIEs RNSAP PROTOCOL EXTENSION ::= {

### UNAFFECTED PARTS REMOVED

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

=

\_\_\_\_\_

53

\_\_\_\_\_

### UNAFFECTED PARTS REMOVED

SecondaryCCPCH_SlotFormat refer_to_[8]	::= INTEGER (017,)
S-FieldLength v1, v2,  }	::= ENUMERATED {
	UNAFFECTED PARTS REMOVED

3GPP

-

# 3.2 Abbreviations

For the purposes of the present document the following abbreviations apply:

NOTE: More extensive abbreviations on UMTS are provided in [1].

AAL2	ATM Adaptation Layer type 2
ACK	Acknowledgement
AICH	Acquisition Indicator Channel
ALCAP	Access Link Control Application Part
AM	Acknowledged Mode
AS	Access Stratum
ATM	Asynchronous Transfer Mode
BCCH	Broadcast Control Channel
BCFF	Broadcast Control Functional Entity
BER	Bit Error Rate
BLER	Block Error Rate
BMC	Broadcast/Multicast Control
DMC	Page Station Sub system
DSS	Dase Station Sub-system Management Application Dart
DSSMAP	Common Control Channel
ССРСИ	Common Control Dissional Channel
CCPCH	Common Control Physical Channel
CFN	Connection Frame Number
CM	Connection Management
CN	Core Network
CPCH	Common Packet CHannel
CPICH	Common Pilot Channel
CRNC	Controlling RNC
C-RNTI	Cell RNTI
CS	Circuit Switched
DCA	Dynamic Channel Allocation
DCCH	Dedicated Control Channel
DCFE	Dedicated Control Functional Entity
DCH	Dedicated Channel
DC-SAP	Dedicated Control-SAP
DL	Downlink
DPCCH	Dedicated Physical Control Channel
DPCH	Dedicated Physical Channel
DRAC	Dynamic Resource Allocation Control
DRNC	Drift RNC
DRNS	Drift RNS
DRX	Discontinuous Reception
DSCH	Downlink Shared Channel
DTCH	Dedicated Traffic Channel
EP	Elementary Procedure
FACH	Forward Access Channel
FAUSCH	Fact Unlink Signalling Channel
FDD	Frequency Division Dunley
FFS	For Further Study
FN	Frame Number
	Frame Drotocol
	Fight Frond Downlink Shound Channel
	High Speed Downlink Shared Channel
	High Speed Flysical Dowillink Shared Channel
ID ID	rigii specu shareu Control Channel
ID ID	
	Information Element
IMEI	International Mobile Equipment Identity
IMSI	International Mobile Subscriber Identity
IL	Internet Protocol
ISCP	Interterence on Signal Code Power
Ll	Layer 1

L2	Layer 2
L3	Layer 3
LAI	Location Area Identity
MAC	Medium Access Control
MAC-hs	Medium Access Control for HS-DSCH
MCC	Mobile Country Code
MM	Mobility Management
MNC	Mobile Network Code
MS	Mobile Station
MSC	Mobile services Switching Center
NAS	Non Access Stratum
NBAP	Node B Application Protocol
Nt-SAP	Notification SAP
NW	Network
0	Optional
ODMA	Opportunity Driven Multiple Access
PCCH	Paging Control Channel
PCH	Paging Channel
PDCP	Packet Data Convergence Protocol
PDSCH	Physical Downlink Shared Channel
PDU	Protocol Data Unit
PLMN	Public I and Mobile Network
PNFF	Paging and Notification control Functional Entity
PRACH	Physical Random Access CHannel
DS	Packat Switched
РУСН	Physical Synchronisation Channel
P TMSI	Packet Temporary Mobile Subscriber Identity
PUSCH	Physical Unlink Shared Channel
	Quality of Service
	Padio Access Baaror
	Pandom Access CHannel
	Pouting Area Identity
KAI DANAD	Routing Area Identity Dadia A again Naturaly Application Dart
RANAP	Radio Access Network Application Part
KD DEE	Radio Dealer Douting Experience Entity
KFE DI	Routing Functional Entity
KL DLC	Radio Link Dadia Link Canturl
KLC DNC	Radio Link Control
KINC DMC	Radio Network Controller
KINS DNC A D	Radio Network Subsystem
KINSAP	Radio Network Subsystem Application Part
KN11 DDC	Radio Network Temporary Identifier
RKU	Radio Resource Control
RSCP	Received Signal Code Power
KSSI GAL	Received Signal Strength Indicator
SAL	Service Area Identifier
SAP	Service Access Point
SCCP	Signalling Connection Control Part
SCFE	Snared Control Function Entity
SF	Spreading Factor
SFN	System Frame Number
SGSN	Serving GPRS Support Node
SHCCH	Shared Control Channel
SIR	Signal to Interference Ratio
SKINC	Serving KINC
SKNS	Serving KNS
S-RNTI	SKNC - KNTI
SSDT	Site Selection Diversity Transmission
TDD	Time Division Duplex
TEID	Tunnel Endpoint Identifier
TF	Transport Format
TFCI	Transport Format Combination Indicator
TFCS	Transport Format Combination Set

TFS	Transport Format Set
TME	Transfer Mode Entity
TMSI	Temporary Mobile Subscriber Identity
Tr	Transparent
Tx	Transmission
UARFCN	UMTS Absolute Radio Frequency Channel Number
UE	User Equipment
UL	Uplink
UM	Unacknowledged Mode
UMTS	Universal Mobile Telecommunication System
UNACK	Unacknowledgement
URA	UTRAN Registration Area
U-RNTI	UTRAN-RNTI
USCH	Uplink Shared Channel
UTRAN	UMTS Terrestrial Radio Access Network

CHANGE REQUEST											
ж		25.931	CR	029	жrev	-	ж	Current	version	6.1.0	ж
For <b>HELP</b> on using this form, see bottom of this page or look at the pop-up text over the <b>#</b> symbols.											
Proposed chang	je a	affects: U	JICC a	npps#	ME	Ra	dio A	ccess Ne	twork 🚺	Core Ne	etwork
Title:	Ж	Feature C	leanu	o: Removal of	DRAC						
Source:	ж	RAN3									
Work item code:	: ¥	TEI5						Date	e: ೫ <mark>2</mark>	8/04/2005	
Category:	<b>#</b>	C Use <u>one</u> of F (con A (cor B (add C (fun D (edi Detailed exp be found in	the follo rection) respond lition of ctional torial m blanatio 3GPP	owing categories ds to a correctio feature), modification of f odification) ons of the above <u>TR 21.900</u> .	s: n in an e feature) categor	earlier r	releas	Release Use on Ph2 e) R96 R97 R98 R99 Rel- Rel- Rel- Rel-	B:     H     R       0:     (GS)     (Re)       0:     (Re)     (Re)	el-6 following rele SM Phase 2) elease 1996) elease 1997) elease 1998) elease 1999) elease 4) elease 5) elease 6) elease 7)	eases:

Reason for change:	# Removal of DRAC
0	
Summary of change	* Removal of DRAC text
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Concernance if	
Consequences II	<mark>ው</mark>
not approved.	
not appiorea.	
Clausas affaatadu	<del>4</del> 0.0
Clauses allecteu.	а <u>3.2</u>
	Y N
Other space	<b>#</b> V Other core specifications <b>#</b> 25 206 25 221 25 422
Other specs	
affected:	X Test specifications
anootour	
	<b>X</b> O&M Specifications
Other comments	¥
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### 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/specs/CR.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.

# 3.2 Abbreviations

I

For the purposes of the present document the following abbreviations apply:

NOTE: More extensive abbreviations on UMTS are provided in [1].

AAL2	ATM Adaptation Layer type 2
ACK	Acknowledgement
AICH	Acquisition Indicator Channel
ALCAP	Access Link Control Application Part
AM	Acknowledged Mode
APN	Access Point Name
AS	Access Stratum
ATM	Asynchronous Transfer Mode
BCCH	Broadcast Control Channel
BCFE	Broadcast Control Functional Entity
BER	Bit Error Rate
BLFR	Block Error Rate
BMC	Broadcast/Multicast Control
BSS	Base Station Sub-system
BSSMAD	Base Station System Management Application Part
CCCU	Common Control Channel
ССРСИ	Common Control Dhysical Channel
CEN	Connection Frame Number
CFN	Connection Frame Number
CM	Connection Management
CN	Core Network
CPCH	Common Packet CHannel
CPICH	Common Pilot Channel
CRNC	Controlling RNC
C-RNTI	Cell RNTI
CS	Circuit Switched
DCA	Dynamic Channel Allocation
DCCH	Dedicated Control Channel
DCFE	Dedicated Control Functional Entity
DCH	Dedicated Channel
DC-SAP	Dedicated Control-SAP
DL	Downlink
DPCCH	Dedicated Physical Control Channel
DPCH	Dedicated Physical Channel
DRAC	-Dynamic Resource Allocation Control
DRNC	Drift RNC
DRNS	Drift RNS
DRX	Discontinuous Reception
DSCH	Downlink Shared Channel
DTCH	Dedicated Traffic Channel
EP	Elementary Procedure
FACH	Forward Access Channel
FAUSCH	Fast Uplink Signalling Channel
FDD	Frequency Division Duplex
FFS	For Further Study
FN	Frame Number
FP	Frame Protocol
HS-DSCH	High Speed Downlink Shared Channel
HS-PDSCH	High Speed Physical Downlink Shared Channel
HS-SCCH	High Speed Shared Control Channel
ID	Identifier
IE	Information Element
IMEI	International Mobile Equipment Identity
IMSI	International Mobile Subscriber Identity
11/10/1	international mobile Subscriber fuentity
IP	Internet Protocol
--------	---
ISCP	Interference on Signal Code Power
L1	Layer 1
L2	Layer 2
L3	Layer 3
LAI	Location Area Identity
MAC	Medium Access Control
MAC-hs	Medium Access Control for HS-DSCH
MBMS	Multimedia Broadcast Multicast Service
MCC	Mobile Country Code
MCCH	Multicast Control Channel
MM	Mobility Management
MNC	Mobile Network Code
MS	Mobile Station
MSC	Mobile services Switching Center
NAS	Non Access Stratum
NBAP	Node B Application Protocol
Nt-SAP	Notification SAP
NW	Network
0	Optional
ODMA	Opportunity Driven Multiple Access
PCCH	Paging Control Channel
PCH	Paging Channel
PDCP	Packet Data Convergence Protocol
PDSCH	Physical Downlink Shared Channel
PDU	Protocol Data Unit
PLMN	Public Land Mobile Network
PNFE	Paging and Notification control Functional Entity
PRACH	Physical Random Access CHannel
PS	Packet Switched
PSCH	Physical Synchronisation Channel
PTM	Point To Multipoint
P-TMSI	Packet Temporary Mobile Subscriber Identity
PTP	Point To Point
PUSCH	Physical Uplink Shared Channel
QoS	Quality of Service
RAB	Radio Access Bearer
RACH	Random Access CHannel
RAI	Routing Area Identity
RANAP	Radio Access Network Application Part
RB	Radio Bearer
RFE	Routing Functional Entity
RL	Radio Link
RLC	Radio Link Control
RNC	Radio Network Controller
RNS	Radio Network Subsystem
RNSAP	Radio Network Subsystem Application Part
RNTI	Radio Network Temporary Identifier
RRC	Radio Resource Control
RSCP	Received Signal Code Power
RSSI	Received Signal Strength Indicator
SAI	Service Area Identifier
SAP	Service Access Point
SCCP	Signalling Connection Control Part
SCFE	Shared Control Function Entity
SF	Spreading Factor
SFN	System Frame Number
SGSN	Serving GPRS Support Node
SHCCH	Shared Control Channel
SIR	Signal to Interference Ratio
SRNC	Serving RNC
SRNS	Serving RNS

S-RNTI	SRNC - RNTI
SSDT	Site Selection Diversity Transmission
TDD	Time Division Duplex
TEID	Tunnel Endpoint Identifier
TF	Transport Format
TFCI	Transport Format Combination Indicator
TFCS	Transport Format Combination Set
TFS	Transport Format Set
TME	Transfer Mode Entity
TMGI	Temporary Multicast Group Identifier
TMSI	Temporary Mobile Subscriber Identity
Tr	Transparent
Tx	Transmission
UARFCN	UMTS Absolute Radio Frequency Channel Number
UE	User Equipment
UL	Uplink
UM	Unacknowledged Mode
UMTS	Universal Mobile Telecommunication System
UNACK	Unacknowledgement
URA	UTRAN Registration Area
U-RNTI	UTRAN-RNTI
USCH	Uplink Shared Channel
UTRAN	UMTS Terrestrial Radio Access Network