

**TSG RAN Meeting #28****RP-050225****Quebec, Canada, 01 - 03 June 2005****Title CRs (Rel-5 & Rel-6) for the removal of CPCH****Source****TSG RAN WG3****Agenda Item****7.7.9**

RAN3 Tdoc	Spec	CR	Rev	Cat	curr. Vers.	new Vers.	Rel	Work item	Title
R3-050503	25.401	96		C	5.9.0	5.10.0	Rel-5	TEI5	Feature Cleanup: Removal of CPCH
R3-050504	25.401	97		C	6.5.0	6.6.0	Rel-6	TEI5	Feature Cleanup: Removal of CPCH
R3-050505	25.420	49		C	5.2.0	5.3.0	Rel-5	TEI5	Feature Cleanup: Removal of CPCH
R3-050506	25.420	50		C	6.3.0	6.4.0	Rel-6	TEI5	Feature Cleanup: Removal of CPCH
R3-050507	25.423	1058		C	5.12.0	5.13.0	Rel-5	TEI5	Feature Cleanup: Removal of CPCH
R3-050508	25.423	1059		C	6.5.0	6.6.0	Rel-6	TEI5	Feature Cleanup: Removal of CPCH
R3-050509	25.424	30		C	5.4.0	5.5.0	Rel-5	TEI5	Feature Cleanup: Removal of CPCH
R3-050510	25.424	31		C	6.1.0	6.2.0	Rel-6	TEI5	Feature Cleanup: Removal of CPCH
R3-050511	25.425	94		C	5.7.0	5.8.0	Rel-5	TEI5	Feature Cleanup: Removal of CPCH
R3-050512	25.425	95		C	6.1.0	6.2.0	Rel-6	TEI5	Feature Cleanup: Removal of CPCH
R3-050513	25.430	60		C	5.4.0	5.5.0	Rel-5	TEI5	Feature Cleanup: Removal of CPCH
R3-050514	25.430	61		C	6.4.0	6.5.0	Rel-6	TEI5	Feature Cleanup: Removal of CPCH
R3-050517	25.434	31		C	5.4.0	5.5.0	Rel-5	TEI5	Feature Cleanup: Removal of CPCH
R3-050518	25.434	32		C	6.1.0	6.2.0	Rel-6	TEI5	Feature Cleanup: Removal of CPCH
R3-050519	25.435	137		C	5.7.0	5.8.0	Rel-5	TEI5	Feature Cleanup: Removal of CPCH
R3-050520	25.435	138		C	6.1.0	6.2.0	Rel-6	TEI5	Feature Cleanup: Removal of CPCH
R3-050739	25.931	35		C	5.1.0	5.2.0	Rel-5	TEI5	Feature Cleanup: Removal of CPCH
R3-050740	25.931	36		C	6.1.0	6.2.0	Rel-6	TEI5	Feature Cleanup: Removal of CPCH
R3-050788	25.433	1098	2	C	5.13.0	5.14.0	Rel-5	TEI5	Feature Cleanup: Removal of CPCH
R3-050789	25.433	1099	2	C	6.5.0	6.6.0	Rel-6	TEI5	Feature Cleanup: Removal of CPCH

## CHANGE REQUEST

# 25.401 CR 096 # rev - # Current version: 5.9.0 #

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

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	# Feature Cleanup: Removal of CPCH		
<b>Source:</b>	# RAN3		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 19/04/2005
<b>Category:</b>	# <b>C</b>	<b>Release:</b>	# Rel-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>Ph2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6) <b>Rel-7</b> (Release 7)

<b>Reason for change:</b>	# At RAN Plenary #27 it was decided to remove the feature: CPCH from this version of protocol.
<b>Summary of change:</b>	# CPCH is removed from the specification.
	<b>Isolated Impact Analysis</b> Feature removed: CPCH  Isolated impact statement: Feature is removed, UE implementations are not affected. Would affect UTRAN implementations supporting the removed functionality.
<b>Consequences if not approved:</b>	# The decision taken at RAN Plenary #27 to remove this feature is violated.

<b>Clauses affected:</b>	# 3.2, 11.2.1, 11.2.2,						
<b>Other specs</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> </table> Other core specifications	Y	N	X		#	25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.420, 25.423, 25.424, 25.425, 25.430, 25.433, 25.434, 25.435
Y	N						
X							
<b>affected:</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">X</td> <td>Test specifications</td> </tr> <tr> <td style="width: 20px; text-align: center;">X</td> <td>O&amp;M Specifications</td> </tr> </table>	X	Test specifications	X	O&M Specifications		
X	Test specifications						
X	O&M Specifications						

**Other comments:** ☹

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

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>.

Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ☹ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> 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

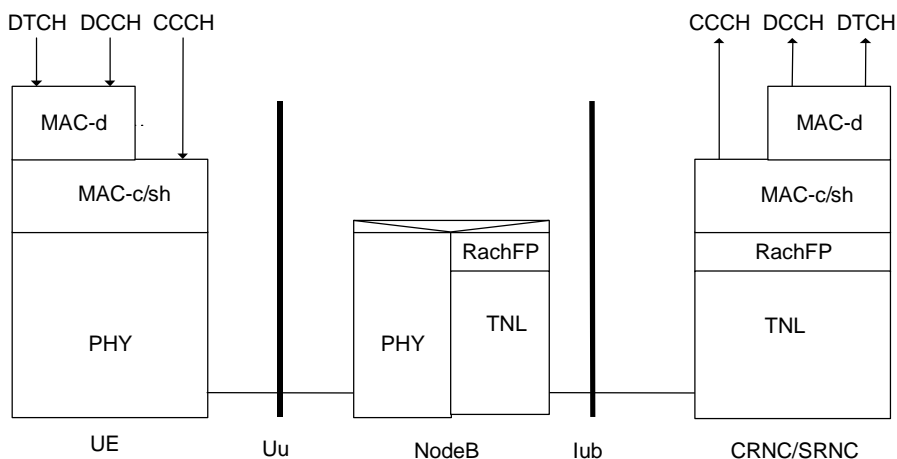
For the purposes of the present document, the following abbreviations apply:

AAL	ATM Adaptation Layer
AAL2	ATM Adaptation Layer 2
ALCAP	Access Link Control Application Part
ATM	Asynchronous Transfer Mode
BM-IWF	Broadcast Multicast Interworking Function
BMC	Broadcast/Multicast Control
BSS	Base Station Subsystem
CBC	Cell Broadcast Centre
CBS	Cell Broadcast Service
CN	Core Network
<del>CPCH</del>	<del>Common Packet Channel</del>
CRNC	Controlling Radio Network Controller
DCH	Dedicated Channel
DL	Downlink
DRNS	Drift RNS
EDGE	Enhanced Data rates for Global Evolution
FACH	Forward Access Channel
FFS	For Further Study
GERAN	GSM EDGE Radio Access Network
GSM	Global System for Mobile Communications
GTP	GPRS Tunnelling Protocol
IPv4	Internet Protocol, version 4
IPv6	Internet Protocol, version 6
LA	Location Area
MAC	Medium Access Control
NAS	Non Access Stratum
NBAP	Node B Application Part
NNSF	NAS Node Selection Function
NSAP	Network Service Access Point
PCH	Paging Channel
PLMN	Public Land Mobile Network
QoS	Quality of Service
RAB	Radio Access Bearer
RACH	Random Access Channel
RANAP	Radio Access Network Application Part
RNC	Radio Network Controller
RNL	Radio Network Layer
RNS	Radio Network Subsystem
RNSAP	Radio Network Subsystem Application Part
RNTI	Radio Network Temporary Identity
SAB	Service Area Broadcast
SAS	Standalone A-GPS SMLC
SMLC	Serving Mobile Location Centre
SNA	Shared Network Area
SRNC	Serving Radio Network Controller
SRNS	Serving RNS
TEID	Tunnel Endpoint Identifier
TNL	Transport Network Layer
TTI	Transmission Time Interval
UDP	User Datagram Protocol
UE	User Equipment
UL	Uplink
UMTS	Universal Mobile Telecommunication System
URA	UTRAN Registration Area
USIM	UMTS Subscriber Identity Module
UTRAN	Universal Terrestrial Radio Access Network

### 11.2.1 RACH Transport Channel

Figure 11 shows the protocol stack model for the RACH transport channel when the Controlling and Serving RNC are co-incident.

For the RACH transport channel, Dedicated MAC (MAC-d) uses the services of Common MAC (MAC-c/sh).



**Figure 11: RACH: Coincident Controlling and Serving RNC**

The Common MAC (MAC-c/sh) entity in the UE transfers MAC-c/sh PDU to the peer MAC-c/sh entity in the RNC using the services of the Physical Layer.

An Interworking Function (IWF) in the Node B interworks the RACH frame received by the PHY entity into the RACH Frame Protocol (RACH FP) entity.

The RACH Frame Protocol entity adds header information to form a RACH FP PDU that is transported to the RNC over a transport bearer.

At the RNC, the RACH FP entity delivers the MAC-c/sh PDU to the MAC-c/sh entity.

Figure 12 shows the protocol model for the RACH transport channel with separate Controlling and Serving RNC. In this case, the RACH Frame Protocol (RACH FP) is used to interwork the Common MAC (MAC-c/sh) at the Controlling RNC with the Dedicated MAC (MAC-d) at the Serving RNC.

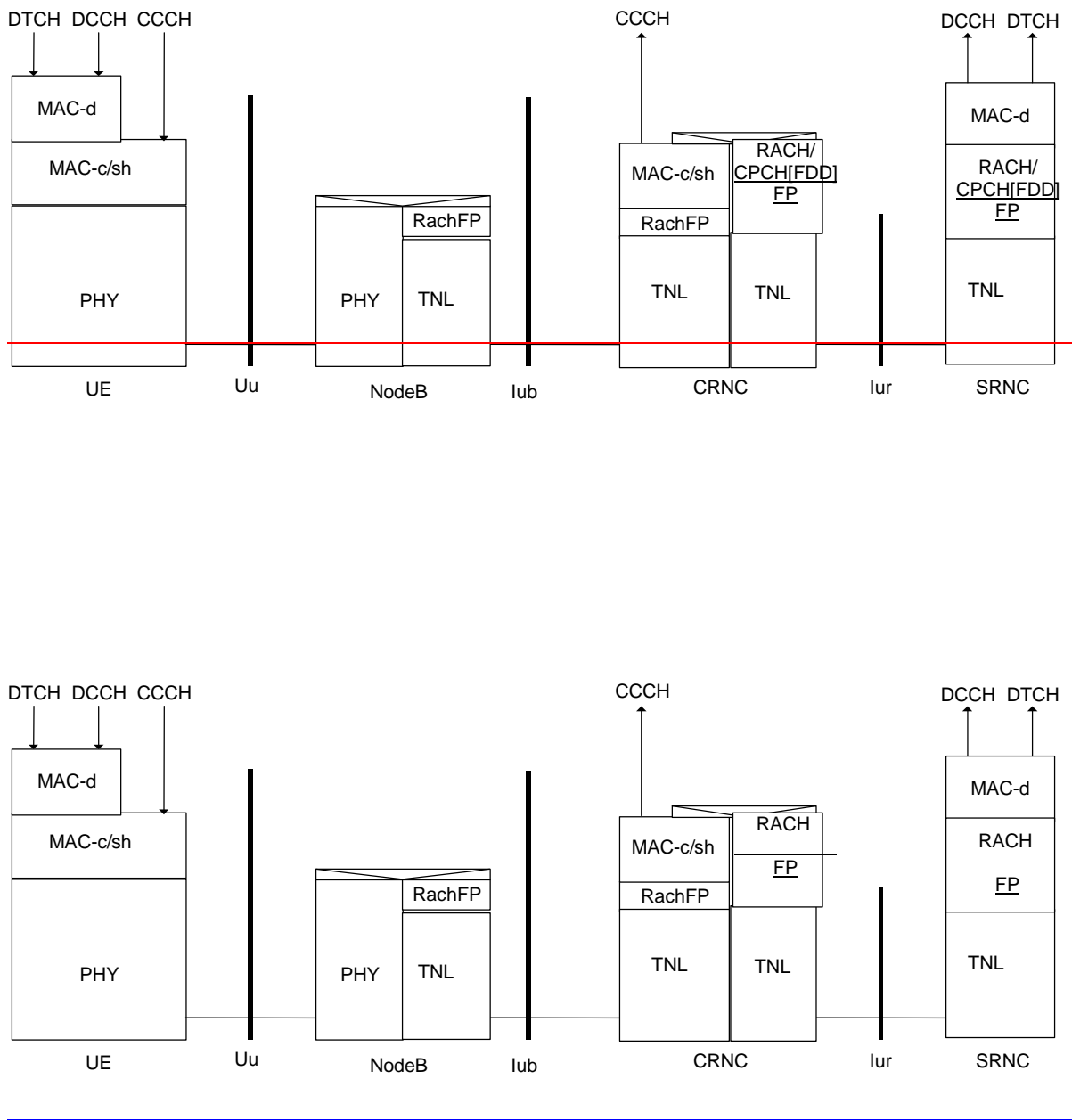
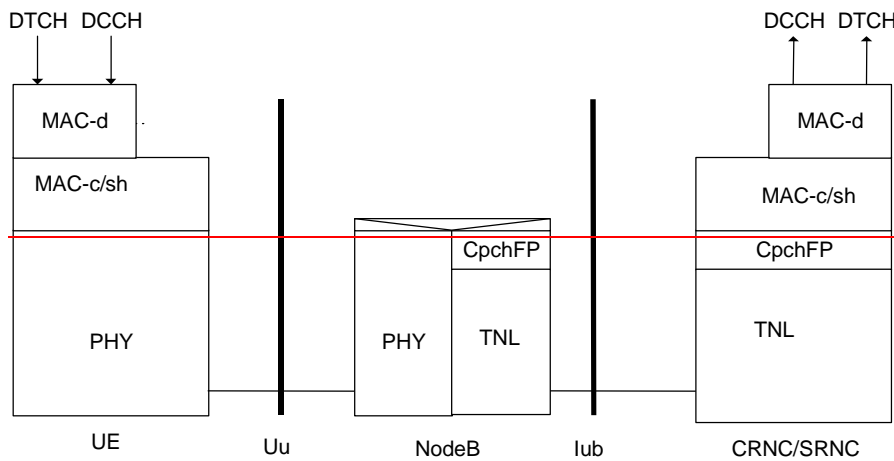


Figure 12: RACH: Separate Controlling and Serving RNC

### 11.2.2 CPCH [FDD] Transport Channel Void

Figure 13 shows the protocol model for the CPCH [FDD] transport channel when the Controlling and Serving RNC are co-incident. Void

For the CPCH [FDD] transport channel, Dedicated MAC (MAC-d) uses the services of Common MAC (MAC-c/sh).



**Figure 13: CPCH [FDD]: Coincident Controlling and Serving RNC**

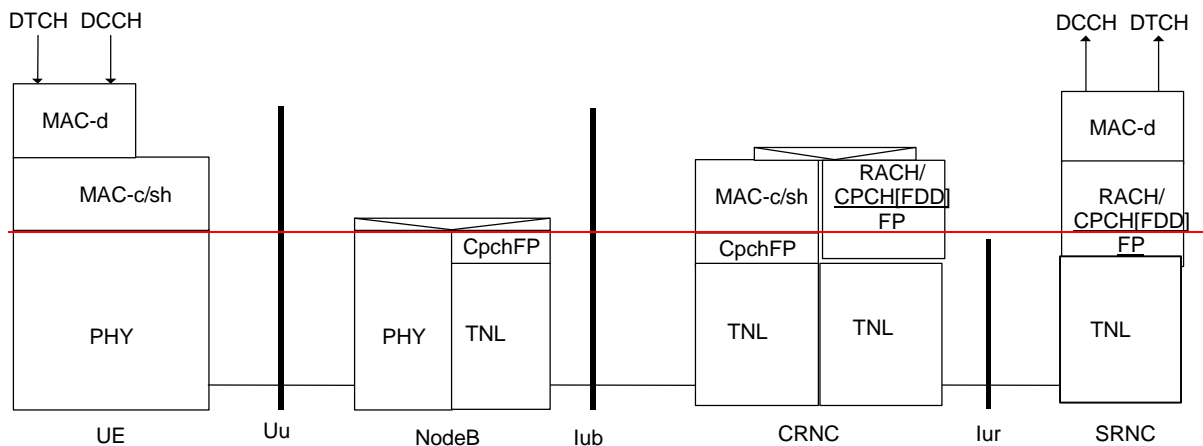
The Common MAC (MAC-c/sh) entity in the UE transfers MAC-e PDU to the peer MAC-e entity in the RNC using the services of the Physical Layer.

An Interworking Function (IWF) in the Node B interworks the CPCH [FDD] frame received by the PHY entity into the CPCH [FDD] Frame Protocol (CpchFP) entity.

The CPCH [FDD] Frame Protocol entity adds header information to form a CPCH [FDD] FP PDU which is transported to the RNC over a transport bearer.

At the RNC, the CPCH [FDD] FP entity delivers the MAC-e PDU to the MAC-e entity.

Figure 14 shows the protocol model for the CPCH [FDD] transport channel with separate Controlling and Serving RNC. In this case, Iur CPCH [FDD] Frame Protocol (CpchFP) is used to interwork the Common MAC (MAC-c/sh) at the Controlling RNC with the Dedicated MAC (MAC-d) at the Serving RNC.



**Figure 14: CPCH [FDD]: Separate Controlling and Serving RNC**

## CHANGE REQUEST

# 25.401 CR 097 # rev - # Current version: 6.5.0 #

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

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	# Feature Cleanup: Removal of CPCH		
<b>Source:</b>	# RAN3		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 19/04/2005
<b>Category:</b>	# <b>C</b>	<b>Release:</b>	# Rel-6
	<p>Use <u>one</u> of the following categories:</p> <p><b>F</b> (correction)</p> <p><b>A</b> (corresponds to a correction in an earlier release)</p> <p><b>B</b> (addition of feature),</p> <p><b>C</b> (functional modification of feature)</p> <p><b>D</b> (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a>.</p>		<p>Use <u>one</u> of the following releases:</p> <p>Ph2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>Rel-4 (Release 4)</p> <p>Rel-5 (Release 5)</p> <p>Rel-6 (Release 6)</p> <p>Rel-7 (Release 7)</p>

<b>Reason for change:</b>	# At RAN Plenary #27 it was decided to remove the feature: CPCH from this version of protocol.
<b>Summary of change:</b>	# CPCH is removed from the specification.
	<p><b>Isolated Impact Analysis</b></p> <p>Feature removed: CPCH</p> <p>Isolated impact statement: Feature is removed, UE implementations are not affected. Would affect UTRAN implementations supporting the removed functionality.</p>
<b>Consequences if not approved:</b>	# The decision taken at RAN Plenary #27 to remove this feature is violated

<b>Clauses affected:</b>	# 3.2, 11.2.1, 11.2.2,						
<b>Other specs</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> </table>	Y	N	X		Other core specifications	# 25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.420, 25.423, 25.424, 25.425, 25.430, 25.433, 25.434, 25.435
Y	N						
X							
<b>affected:</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">X</td> <td></td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> </table>	X		X		Test specifications O&M Specifications	
X							
X							



**Other comments:** ☹

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## 3.2 Abbreviations

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

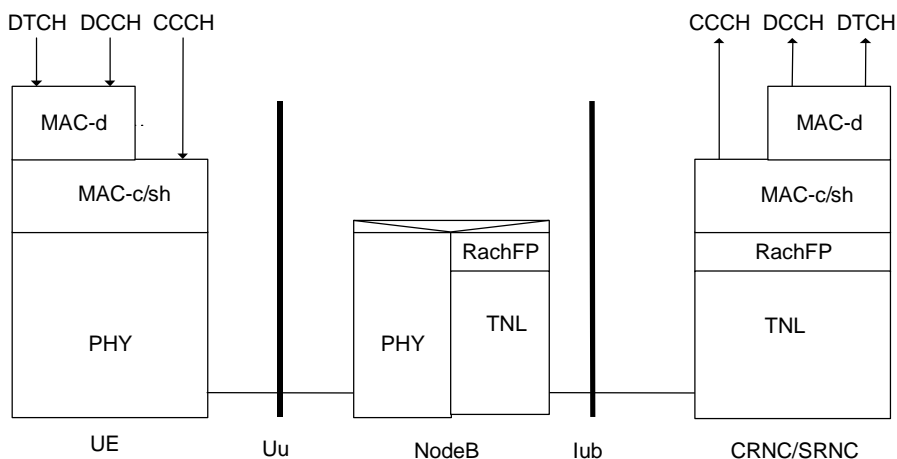
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HPLMN	Home PLMN
IPv4	Internet Protocol, version 4
IPv6	Internet Protocol, version 6
LA	Location Area
MAC	Medium Access Control
MBMS	Multimedia Broadcast Multicast Service
MCCH	MBMS point-to-multipoint Control Channel
MOCN	Multi Operator Core Network
MSCH	MBMS point-to-multipoint Scheduling Channel
MTCH	MBMS point-to-multipoint Traffic Channel
NACC	Network Assisted Cell Change
NAS	Non Access Stratum
NBAP	Node B Application Part
NNSF	NAS Node Selection Function
NSAP	Network Service Access Point
PCH	Paging Channel
PLMN	Public Land Mobile Network
PTM	Point To Multipoint
PTP	Point To Point
QoS	Quality of Service
RAB	Radio Access Bearer
RACH	Random Access Channel
RANAP	Radio Access Network Application Part
RET	Remote Electrical Tilting
RIM	RAN Information Management
RNC	Radio Network Controller
RNL	Radio Network Layer
RNS	Radio Network Subsystem
RNSAP	Radio Network Subsystem Application Part
RNTI	Radio Network Temporary Identity
SAB	Service Area Broadcast
SAS	Stand-Alone SMLC
SMLC	Serving Mobile Location Centre

SNA	Shared Network Area
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### 11.2.1 RACH Transport Channel

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For the RACH transport channel, Dedicated MAC (MAC-d) uses the services of Common MAC (MAC-c/sh).



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The RACH Frame Protocol entity adds header information to form a RACH FP PDU that is transported to the RNC over a transport bearer.

At the RNC, the RACH FP entity delivers the MAC-c/sh PDU to the MAC-c/sh entity.

Figure 12 shows the protocol model for the RACH transport channel with separate Controlling and Serving RNC. In this case, the RACH Frame Protocol (RACH FP) is used to interwork the Common MAC (MAC-c/sh) at the Controlling RNC with the Dedicated MAC (MAC-d) at the Serving RNC.

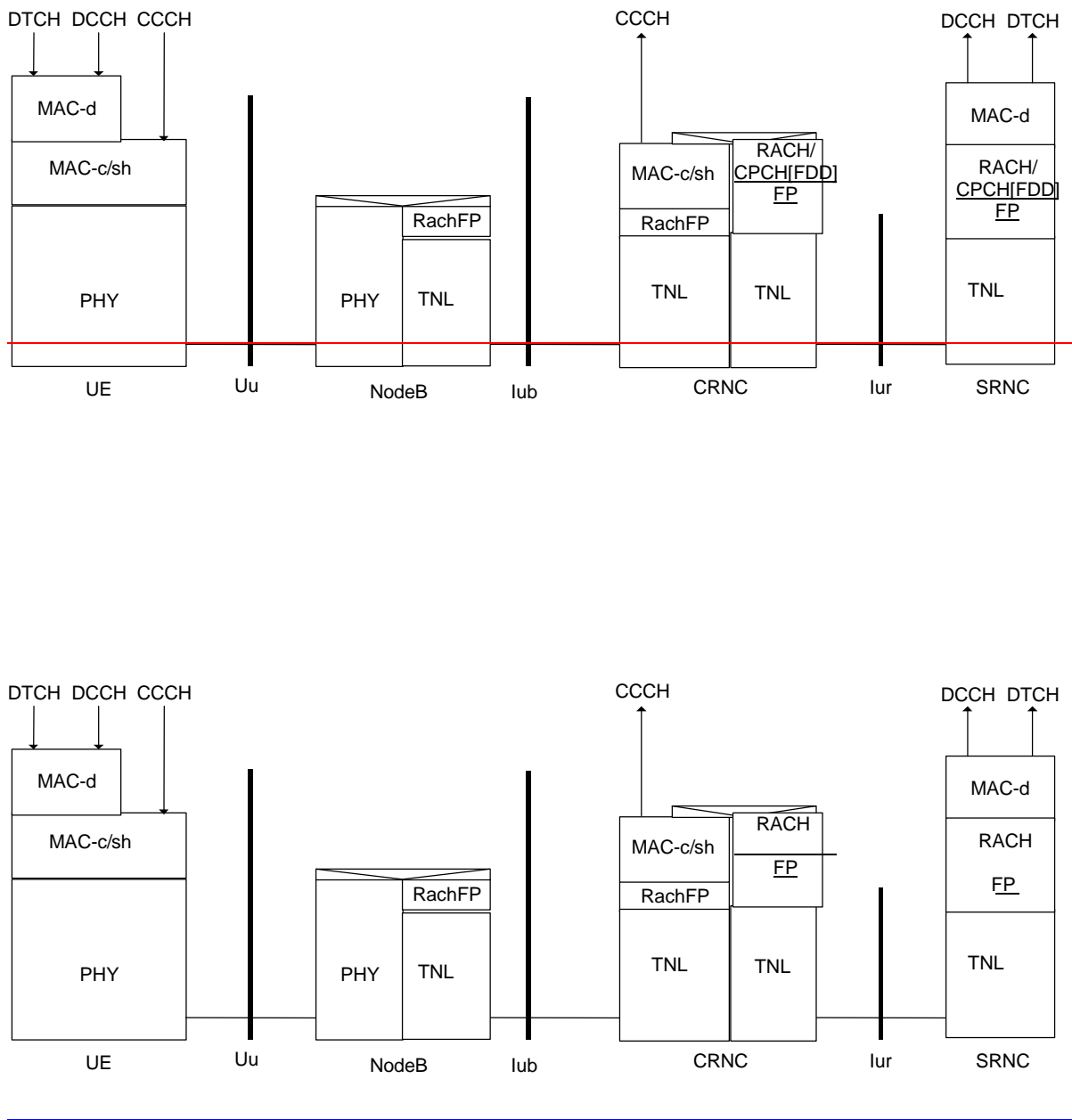
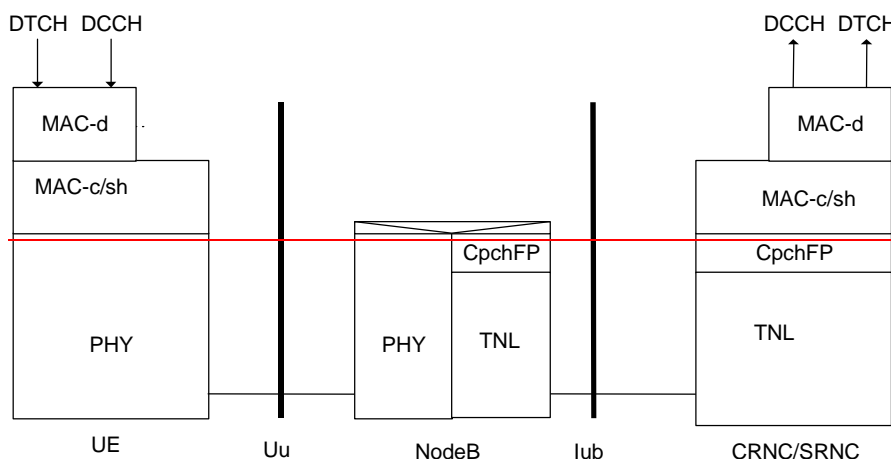


Figure 12: RACH: Separate Controlling and Serving RNC

### 11.2.2 CPCH [FDD] Transport Channel Void

Figure 13 shows the protocol model for the CPCH [FDD] transport channel when the Controlling and Serving RNC are co-incident.

For the CPCH [FDD] transport channel, Dedicated MAC (MAC-d) uses the services of Common MAC (MAC-c/sh).



**Figure 13: CPCH [FDD]: Coincident Controlling and Serving RNC**

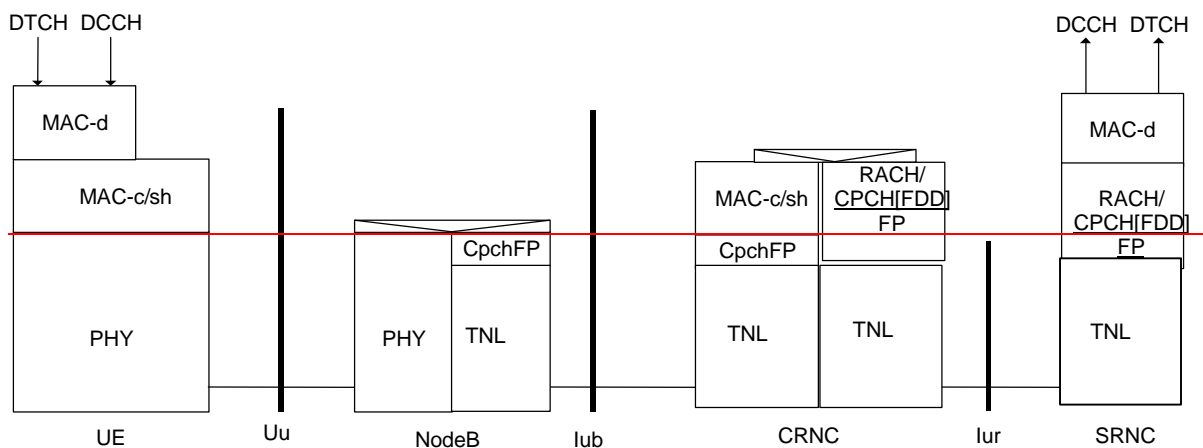
The Common MAC (MAC-c/sh) entity in the UE transfers MAC-e PDU to the peer MAC-e entity in the RNC using the services of the Physical Layer.

An Interworking Function (IWF) in the Node B interworks the CPCH [FDD] frame received by the PHY entity into the CPCH [FDD] Frame Protocol (CPCH FP) entity.

The CPCH [FDD] Frame Protocol entity adds header information to form a CPCH [FDD] FP PDU which is transported to the RNC over a transport bearer.

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**Figure 14: CPCH [FDD]: Separate Controlling and Serving RNC**

## CHANGE REQUEST

# 25.420 CR 049 # rev - # Current version: 5.2.0 #

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

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	# Feature Cleanup: Removal of CPCH		
<b>Source:</b>	# RAN3		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 19/04/2005
<b>Category:</b>	# <b>C</b>	<b>Release:</b>	# Rel-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>Ph2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6) <b>Rel-7</b> (Release 7)

<b>Reason for change:</b>	# At RAN Plenary #27 it was decided to remove the feature: CPCH from this version of protocol.
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<b>Clauses affected:</b>	# 3.2, 4.4.3, 6.3.4, 6.4, 7.1, 7.2.6,						
<b>Other specs</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> </table> Other core specifications	Y	N	X		#	25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.423, 25.424, 25.425, 25.430, 25.433, 25.434, 25.435
Y	N						
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X	Test specifications						
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**Other comments:** ☹

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## 3.2 Abbreviations

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

AAL2	ATM Adaptation Layer type 2
AAL5	ATM Adaptation Layer type 5
ALCAP	Access Link Control Application Part
ATM	Asynchronous Transfer Mode
BSS	Base Station Subsystem
<del>CPCH</del>	<del>Common Packet Channel</del>
CRNC	Controlling RNC
CTP	Common Transport Protocol
DCH	Dedicated Transport Channel
DL	Downlink
DRNC	Drift Radio Network Controller
DRNS	Drift Radio Network Subsystem
DSCH	Downlink Shared Channel
EDGE	Enhanced Data rates for GSM Evolution
FACH	Forward Access Channel
FFS	For Further Study
GERAN	GSM/EDGE Radio Access Network
GSM	Global System for Mobile communications
GT	Global Title
HS-DSCH	High Speed Downlink Shared Channel
IP	Internet Protocol
MAC	Medium Access Control
MTP3-B	Message Transfer Part level 3 (for Q.2140)
PLMN	Public Land Mobile Network
QoS	Quality of Service
RACH	Random Access Channel
RF	Radio Frequency
RNC	Radio Network Controller
RNS	Radio Network Subsystem
RNSAP	Radio Network Subsystem Application Part
RRC	Radio Resource Control
SCCP	Signalling Connection Control Part
SPC	Signalling Point Code
SRNC	Serving Radio Network Controller
SRNS	Serving Radio Network Subsystem
SS7	Signalling System N° 7
SSCF-NNI	Service Specific Co-ordination Function – Network Node Interface
SSCOP	Service Specific Connection Oriented Protocol
SSN	Sub-System Number
STC	Signalling Transport Converter
UDP	User Datagram Protocol
UE	User Equipment
UL	Up-link
UMTS	Universal Mobile Telecommunication System
URA	UTRAN Registration Area
USCH	Uplink Shared Channel
UTRAN	UMTS Terrestrial Radio Access Network

### 4.4.3 Iur RACH/~~CPCH~~ ~~[FDD]~~ data streams

The Iur interface provides the means for transport of uplink RACH ~~and [FDD-CPCH]~~ transport frames between DRNC and SRNC.

## 6.3.4 Iur RACH/~~CPCH~~ [~~FDD~~] Frame Protocol

For a more detailed description of the Iur RACH framing protocol refer to 'UTRAN Iur Interface User Plane protocols for Common Transport Channel Data Streams' [2].

## 6.4 Mapping of Frame Protocols onto transport bearers

**DCH** One Iur DCH data stream is carried on one transport bearer except in the case of co-ordinated DCHs in which case a set of co-ordinated DCHs are multiplexed onto the same transport bearer.

**DSCH** One Iur DSCH data stream is carried on one transport bearer

**HS-DSCH** One Iur HS-DSCH data stream is carried on one transport bearer

**[TDD - USCH** One Iur USCH data stream is carried on one transport bearer.]

**RACH/~~CPCH[FDD]~~** Multiple RACH/~~CPCH[FDD]~~ data streams may be carried on one transport bearer.

**FACH** Multiple FACH data streams may be carried on one transport bearer.

RACH/~~CPCH[FDD]~~ and FACH data streams for one UE are carried on same transport bearer.

---

## 7 DRNS logical Model over I<sub>ur</sub>

### 7.1 Overview

The model in Figure 3 shows the Drift Radio Network System as seen from the SRNC. It is modelled as a «black box» with a set of Radio Links on the Uu side of the box and another set of User Plane access ports on the Iur side of the box. The Radio Links are connected to the Iur user ports via the internal transport mechanisms of the DRNS. Operations for controlling the connections between ports are sent from the SRNC to the DRNC via an Iur Control Plane port.

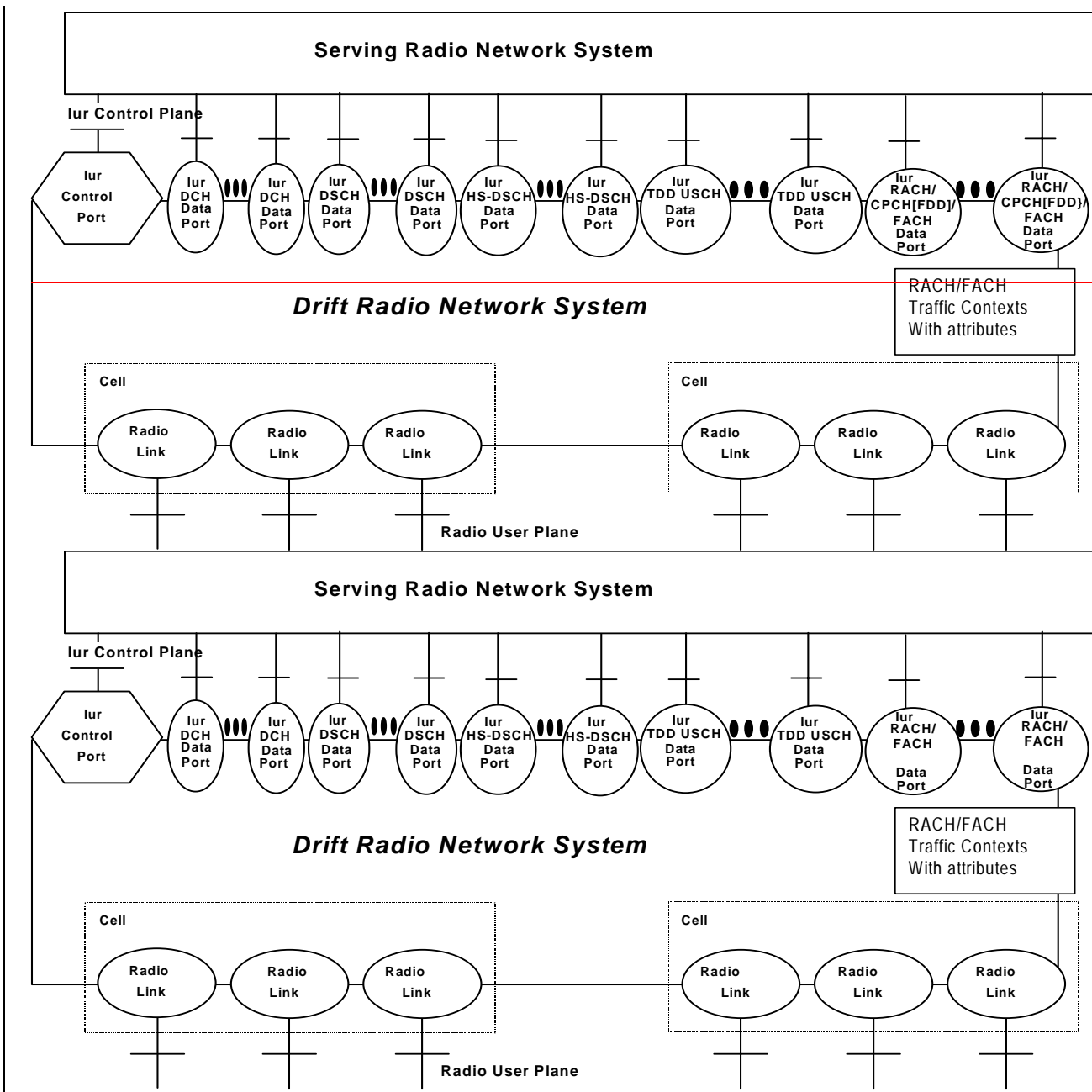


Figure 3: Drift RNS Logical Model

## 7.2.6 Iur RACH/~~CPCH [FDD]~~/FACH Data Port

The Iur RACH/~~CPCH [FDD]~~/FACH data port represents a transport bearer and is identified with a transport bearer identity.

## CHANGE REQUEST

# 25.420 CR 050 # rev - # Current version: 6.3.0 #

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

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	# Feature Cleanup: Removal of CPCH		
<b>Source:</b>	# RAN3		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 19/04/2005
<b>Category:</b>	# <b>C</b>	<b>Release:</b>	# Rel-6
	<p>Use <u>one</u> of the following categories:</p> <p><b>F</b> (correction)</p> <p><b>A</b> (corresponds to a correction in an earlier release)</p> <p><b>B</b> (addition of feature),</p> <p><b>C</b> (functional modification of feature)</p> <p><b>D</b> (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a>.</p>		<p>Use <u>one</u> of the following releases:</p> <p>Ph2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>Rel-4 (Release 4)</p> <p>Rel-5 (Release 5)</p> <p>Rel-6 (Release 6)</p> <p>Rel-7 (Release 7)</p>

<b>Reason for change:</b>	# At RAN Plenary #27 it was decided to remove the feature: CPCH from this version of protocol.
<b>Summary of change:</b>	# CPCH is removed from the specification.
	<p><b>Isolated Impact Analysis</b></p> <p>Feature removed: CPCH</p> <p>Isolated impact statement: Feature is removed, UE implementations are not affected. Would affect UTRAN implementations supporting the removed functionality.</p>
<b>Consequences if not approved:</b>	# The decision taken at RAN Plenary #27 to remove this feature is violated

<b>Clauses affected:</b>	# 3.2, 4.4.3, 6.3.4, 6.4, 7.1, 7.2.6,						
<b>Other specs</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="height: 100px;">X</td> <td></td> </tr> </table>	Y	N	X		Other core specifications	# 25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.423, 25.424, 25.425, 25.430, 25.433, 25.434, 25.435
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<b>affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">X</td> <td style="width: 20px;">X</td> </tr> <tr> <td style="height: 15px;"></td> <td style="height: 15px;"></td> </tr> </table>	X	X			Test specifications	
X	X						
	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">X</td> <td style="width: 20px;"></td> </tr> <tr> <td style="height: 15px;"></td> <td style="height: 15px;"></td> </tr> </table>	X				O&M Specifications	
X							

**Other comments:** ☹

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

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>.

Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ☹ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> 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

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

AAL2	ATM Adaptation Layer type 2
AAL5	ATM Adaptation Layer type 5
ALCAP	Access Link Control Application Part
ATM	Asynchronous Transfer Mode
BSS	Base Station Subsystem
<del>CPCH</del>	<del>Common Packet Channel</del>
CRNC	Controlling RNC
CTP	Common Transport Protocol
DCH	Dedicated Transport Channel
DL	Downlink
DPCH	Dedicated Physical Channel
DRNC	Drift Radio Network Controller
DRNS	Drift Radio Network Subsystem
DSCH	Downlink Shared Channel
E-DCH	Enhanced Dedicated Channel
EDGE	Enhanced Data rates for GSM Evolution
FACH	Forward Access Channel
F-DPCH	Fractional DPCH
FFS	For Further Study
GERAN	GSM/EDGE Radio Access Network
GSM	Global System for Mobile communications
GT	Global Title
HARQ	Hybrid Automatic Repeat Request
HS-DSCH	High Speed Downlink Shared Channel
IP	Internet Protocol
MAC	Medium Access Control
MBMS	Multimedia Broadcast Multicast Service
MTP3-B	Message Transfer Part level 3 (for Q.2140)
PLMN	Public Land Mobile Network
PTM	Point To Multipoint
PTP	Point To Point
QoS	Quality of Service
RACH	Random Access Channel
RF	Radio Frequency
RNC	Radio Network Controller
RNS	Radio Network Subsystem
RNSAP	Radio Network Subsystem Application Part
RRC	Radio Resource Control
SCCP	Signalling Connection Control Part
SPC	Signalling Point Code
SRNC	Serving Radio Network Controller
SRNS	Serving Radio Network Subsystem
SS7	Signalling System N <sup>o</sup> 7
SSCF-NNI	Service Specific Co-ordination Function – Network Node Interface
SSCOP	Service Specific Connection Oriented Protocol
SSN	Sub-System Number
STC	Signalling Transport Converter
UDP	User Datagram Protocol
UE	User Equipment
UL	Up-link
UMTS	Universal Mobile Telecommunication System
URA	UTRAN Registration Area
USCH	Uplink Shared Channel
UTRAN	UMTS Terrestrial Radio Access Network

### 4.4.3 Iur RACH/~~CPCH~~ [~~FDD~~] data streams

The Iur interface provides the means for transport of uplink RACH ~~and~~ [~~FDD~~—~~CPCH~~] transport frames between DRNC and SRNC.

## 6.3.4 Iur RACH/~~CPCH~~ [~~FDD~~] Frame Protocol

For a more detailed description of the Iur RACH framing protocol refer to 'UTRAN Iur Interface User Plane protocols for Common Transport Channel Data Streams' [2].

## 6.4 Mapping of Frame Protocols onto transport bearers

<b>DCH</b>	One Iur DCH data stream is carried on one transport bearer except in the case of co-ordinated DCHs in which case a set of co-ordinated DCHs are multiplexed onto the same transport bearer.
<b>DSCH</b>	One Iur DSCH data stream is carried on one transport bearer
<b>HS-DSCH</b>	One Iur HS-DSCH data stream is carried on one transport bearer
<b>[FDD - E-DCH]</b>	One Iur E-DCH data stream is carried on one transport bearer. For each E-DCH data stream, a transport bearer must be established over the Iur interface.]
<b>[TDD - USCH]</b>	One Iur USCH data stream is carried on one transport bearer.]
<b>RACH/<del>CPCH</del>[<del>FDD</del>]</b>	Multiple RACH/ <del>CPCH</del> [ <del>FDD</del> ] data streams may be carried on one transport bearer.
<b>FACH</b>	Multiple FACH data streams may be carried on one transport bearer.

RACH/~~CPCH~~[~~FDD~~] and FACH data streams for one UE are carried on same transport bearer.

---

## 7 DRNS logical Model over I<sub>ur</sub>

### 7.1 Overview

The model in Figure 3 shows the Drift Radio Network System as seen from the SRNC. It is modelled as a «black box» with a set of Radio Links on the Uu side of the box and another set of User Plane access ports on the Iur side of the box. The Radio Links are connected to the Iur user ports via the internal transport mechanisms of the DRNS. Operations for controlling the connections between ports are sent from the SRNC to the DRNC via an Iur Control Plane port.

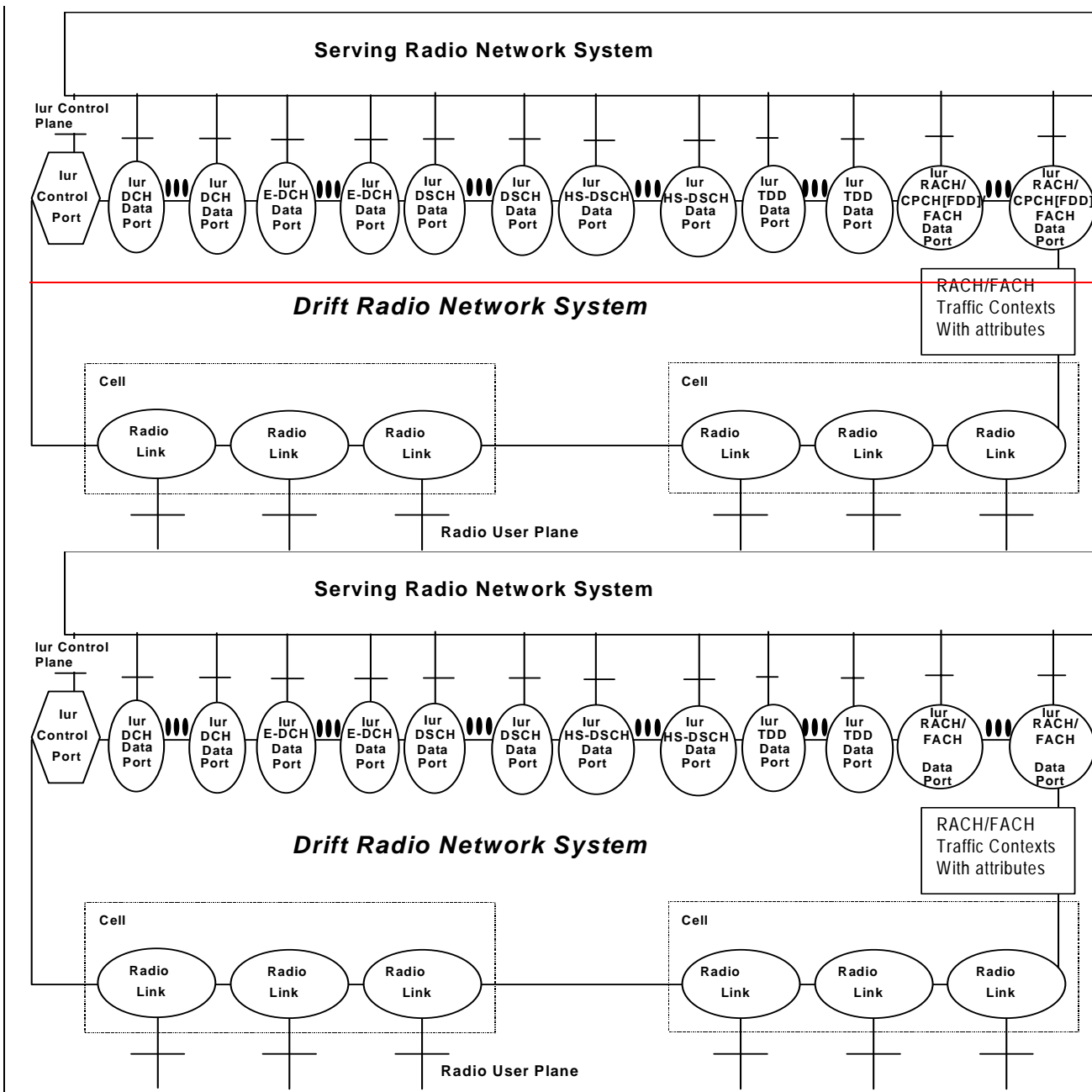


Figure 3: Drift RNS Logical Model

## 7.2.6 Iur RACH/~~CPCH [FDD]~~/FACH Data Port

The Iur RACH/~~CPCH [FDD]~~/FACH data port represents a transport bearer and is identified with a transport bearer identity.

## CHANGE REQUEST

# 25.423 CR 1058 # rev - # Current version: 5.13.0 #

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

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	# Feature Cleanup: Removal of CPCH		
<b>Source:</b>	# RAN3		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 19/04/2005
<b>Category:</b>	# <b>C</b>	<b>Release:</b>	# Rel-5
	<p>Use <u>one</u> of the following categories:</p> <p><b>F</b> (correction)</p> <p><b>A</b> (corresponds to a correction in an earlier release)</p> <p><b>B</b> (addition of feature),</p> <p><b>C</b> (functional modification of feature)</p> <p><b>D</b> (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a>.</p>		<p>Use <u>one</u> of the following releases:</p> <p>Ph2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>Rel-4 (Release 4)</p> <p>Rel-5 (Release 5)</p> <p>Rel-6 (Release 6)</p> <p>Rel-7 (Release 7)</p>

<b>Reason for change:</b>	# At RAN Plenary #27 it was decided to remove the feature: CPCH from this version of protocol.
<b>Summary of change:</b>	# CPCH is removed from the specification.
	<p><b>Isolated Impact Analysis</b></p> <p>Feature removed: CPCH</p> <p>Isolated impact statement: Feature is removed, UE implementations are not affected. Would affect UTRAN implementations supporting the removed functionality.</p>
<b>Consequences if not approved:</b>	# The decision taken at RAN Plenary #27 to remove this feature is violated.

<b>Clauses affected:</b>	# 3.3, 8.2.1, 8.2.2, 8.4.1, 8.4.2, 9.2.1.5,										
<b>Other specs</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td></td> <td style="text-align: center;">X</td> </tr> </table>	Y	N	X			X		X	Other core specifications	# 25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.420, 25.424, 25.425, 25.430, 25.433, 25.434, 25.435
Y	N										
X											
	X										
	X										
<b>affected:</b>		Test specifications									
		O&M Specifications									

**Other comments:** ☹

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.



### 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
<del>CPCH</del>	<del>Common Packet Channel</del>
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
DRNC	Drift RNC
DRNS	Drift RNS
D-RNTI	Drift Radio Network Temporary Identifier
DRX	Discontinuous Reception
DSCH	Downlink Shared Channel
$E_c$	Energy in single Code
EDSCHPC	Enhanced Downlink Shared 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
PCH	Paging Channel
OTD	Observed Time Difference
P(-)CPICH	Primary CPICH
<del>PCPCH</del>	<del>Physical Common Packet Channel</del>
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
QE	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	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
SF	System Frame
SFN	System Frame Number
SHCCH	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 Duplex
TF	Transport Format
TFCI	Transport Format Combination Indicator
TFCS	Transport 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

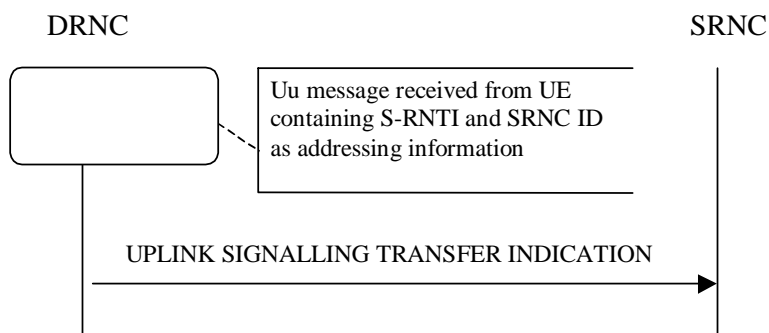
## 8.2.1 Uplink Signalling Transfer

### 8.2.1.1 General

The procedure is used by the DRNC to forward a Uu message received on the CCCH to the SRNC.

This procedure shall use the connectionless mode of the signalling bearer.

### 8.2.1.2 Successful Operation



**Figure 1: Uplink Signalling Transfer procedure, Successful Operation**

When the DRNC receives an Uu message on the CCCH in which the UE addressing information is U-RNTI, i.e. S-RNTI and SRNC-ID, DRNC shall send the UPLINK SIGNALLING TRANSFER INDICATION message to the SRNC identified by the SRNC-ID received from the UE.

If at least one URA Identity is being broadcast in the cell where the Uu message was received (the accessed cell), the DRNC shall include a URA Identity for this cell in the *URA ID IE*, the *Multiple URAs Indicator IE* indicating whether or not multiple URA Identities are being broadcast in the accessed cell, and the RNC Identity of all other RNCs that are having at least one cell within the URA where the Uu message was received in the *URA Information IE* in the UPLINK SIGNALLING TRANSFER INDICATION message.

The DRNC shall include in the message the C-RNTI that it allocates to identify the UE in the radio interface in the accessed cell. If there is no valid C-RNTI for the UE in the accessed cell, the DRNS shall allocate a new C-RNTI for the UE. If the DRNS allocates a new C-RNTI it shall also release any C-RNTI previously allocated for the UE.

If the DRNS has any RACH, ~~FDD-CPCH~~, and/or FACH resources allocated for the UE identified by the U-RNTI in another cell than the accessed cell in which the Mac SDU sizes, flow control settings (including credits) and/or transport bearer are different from those in the old cell, then the DRNS shall not include the *Common Transport Channel Resources Initialisation Not Required IE* in the UPLINK SIGNALLING TRANSFER INDICATION message. In addition the DRNS shall release these RACH, ~~FDD-CPCH~~, and/or FACH resources in old cell.

If the DRNS has any RACH, ~~FDD-CPCH~~, and/or FACH resources allocated for the UE identified by the U-RNTI in another cell than the accessed cell in which the Mac SDU sizes, flow control settings (including credits) and transport bearer are the same as in the old cell, there is no need for Common Transport Channel Resources Initialisation to be initiated. In that case, DRNC may include the *Common Transport Channel Resources Initialisation Not Required IE* in the UPLINK SIGNALLING TRANSFER INDICATION message. In addition, the DRNS shall move these RACH, ~~FDD-CPCH~~, and/or FACH resources to the new cell. If no Common Transfer Channel Resources Initialisation procedure is executed, the currently applicable Mac SDU sizes, flow control settings (including credits) and transport bearer shall continue to be used while the UE is in the new cell.

If no context exists for this UE in the DRNC, the DRNC shall create a UE Context for this UE, allocate a D-RNTI for the UE Context, and include the *D-RNTI IE* and the identifiers for the CN CS Domain and CN PS Domain that the DRNC is connected to in the UPLINK SIGNALLING TRANSFER INDICATION message. These CN Domain Identifiers shall be based on the LAC and RAC respectively of the cell where the message was received from the UE.

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell, represented either by the *Cell GAI IE* or by the *Cell GA Additional Shapes IE*, in which the Uu message was received in the UPLINK SIGNALLING TRANSFER INDICATION message. If the DRNC includes the *Cell GA Additional Shapes IE* in the UPLINK SIGNALLING TRANSFER INDICATION message, it shall also include the *Cell GAI IE*.

[FDD - The DRNC shall include the *DPC Mode Change Support Indicator IE* in the UPLINK SIGNALLING TRANSFER INDICATION message if the accessed cell supports DPC mode change.]

The DRNC shall include [FDD - the *Cell Capability Container FDD IE*] [3.84Mcps TDD - the *Cell Capability Container TDD IE*] [1.28Mcps TDD - the *Cell Capability Container TDD LCR IE*] in the UPLINK SIGNALLING TRANSFER INDICATION message if the accessed cell supports any functionalities listed in [FDD - 9.2.2.D] [3.84Mcps TDD - 9.2.3.1a] [1.28Mcps TDD - 9.2.3.1b].

If available, the DRNC shall include the *SNA Information IE* for the concerned cell.

When receiving the *SNA Information IE*, the SRNC should use it to restrict cell access based on SNA information. See also [40] for a broader description of the SNA access control.

### 8.2.1.3 Abnormal Conditions

-

## 8.2.2 Downlink Signalling Transfer

### 8.2.2.1 General

The procedure is used by the SRNC to request to the DRNC the transfer of a Uu message on the CCCH in a cell. When used, the procedure is in response to a received Uplink Signalling Transfer procedure.

This procedure shall use the connectionless mode of the signalling bearer.

#### 8.2.2.1.1 Downlink Signalling Transfer for lur-g

The procedure is used by the SRNC/SBSS to request to the DBSS the transfer of an Um message on the SRB2 in a cell.

The procedure is used by the SBSS to request to the DRNC the transfer of a Uu message on the CCCH in a cell.

### 8.2.2.2 Successful Operation



**Figure 2: Downlink Signalling Transfer procedure, Successful Operation**

The procedure consists of the DOWNLINK SIGNALLING TRANSFER REQUEST message sent by the SRNC to the DRNC.

The message contains the Cell Identifier (*C-ID*) contained in the received UPLINK SIGNALLING TRANSFER INDICATION message and the *D-RNTI*.

Upon receipt of the message, the DRNC shall send the L3 Information on the CCCH in the cell indicated by the *C-ID* IE to the UE identified by the *D-RNTI* IE.

If the *D-RNTI Release Indication* IE is set to "Release *D-RNTI*" and the DRNS has no dedicated resources (DCH, [TDD - USCH,] and/or DSCH) allocated for the UE, the DRNS shall release the *D-RNTI*, the UE Context and any RACH, ~~FDD-CPCH,~~ and FACH resources and any *C-RNTI* allocated to the UE Context upon receipt of the DOWNLINK SIGNALLING TRANSFER REQUEST message.

If the *D-RNTI Release Indication* IE is set to "Release *D-RNTI*" and the DRNS has dedicated resources allocated for the UE, the DRNS shall only release any RACH, ~~FDD-CPCH,~~ and FACH resources and any *C-RNTI* allocated to the UE Context upon receipt of the DOWNLINK SIGNALLING TRANSFER REQUEST message.

#### 8.2.2.2.1 Successful Operation for lur-g

The procedure consists of the DOWNLINK SIGNALLING TRANSFER REQUEST message sent by the SRNC/SBSS to the DBSS or by the SBSS to the DRNC.

The message contains the Cell Identifier (*C-ID*) contained in the received UPLINK SIGNALLING TRANSFER INDICATION message and the *D-RNTI*.

Upon receipt of the message, the DBSS shall send the L3 Information on the SRB2 in the cell indicated by the *C-ID* IE to the UE/MS identified by the *D-RNTI* IE.

Upon receipt of the message, the DRNC shall send the L3 Information on the CCCH in the cell indicated by the *C-ID* IE to the UE/MS identified by the *D-RNTI* IE.

### 8.2.2.3 Abnormal Conditions

If the user identified by the *D-RNTI* IE has already accessed another cell controlled by the DRNC than the cell identified by the *C-ID* IE in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the message shall be ignored.

#### 8.2.2.3.1 Abnormal Conditions for Iur-g

If the user identified by the *D-RNTI* IE has already accessed another cell controlled by the DRNC/DBSS than the cell identified by the *C-ID* IE in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the message shall be ignored.

If the DRNC receives from the SBSS the DOWNLINK SIGNALLING TRANSFER REQUEST message, in which the *D-RNTI Release Indication* IE is set to "not Release D-RNTI", the DRNC shall ignore this IE and release the D-RNTI.

If the DBSS receives from the SBSS/SRNC the DOWNLINK SIGNALLING TRANSFER REQUEST message, in which the *D-RNTI Release Indication* IE is set to "not Release D-RNTI", the DBSS shall ignore this IE and release the D-RNTI.

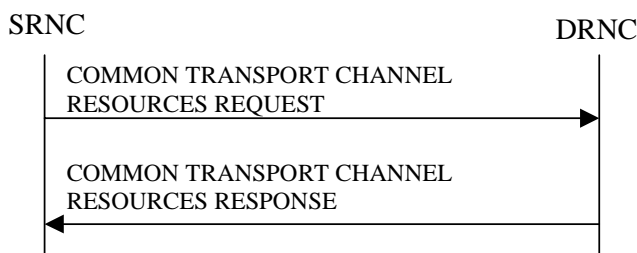
## 8.4.1 Common Transport Channel Resources Initialisation

### 8.4.1.1 General

The Common Transport Channel Resources Initialisation procedure is used by the SRNC for the initialisation of the Common Transport Channel user plane towards the DRNC and/or for the initialisation of the Common Transport Channel resources in the DRNC to be used by a UE.

This procedure shall use the connectionless mode of the signalling bearer.

### 8.4.1.2 Successful Operation



**Figure 27: Common Transport Channel Resources Initialisation procedure, Successful Operation**

The SRNC initiates the procedure by sending the message COMMON TRANSPORT CHANNEL RESOURCES REQUEST message to the DRNC.

If the value of the *Transport Bearer Request Indicator* IE is set to "Bearer Requested", the DRNC shall store the received *Transport Bearer ID* IE. The DRNC may use the *Transport Layer Address* and *Binding ID* IEs included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message received from the SRNC when establishing a transport bearer for the common transport channel. In addition, the DRNC shall include its own *Binding ID* IE and *Transport Layer Address* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the value of the *Transport Bearer Request Indicator* IE is set to "Bearer not Requested", the DRNC shall use the transport bearer indicated by the *Transport Bearer ID* IE.

If the *C-ID* IE is included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall allocate a C-RNTI for the indicated cell and include the *C-RNTI* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the *C-ID* IE is included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall include the *FACH Info for UE Selected S-CCPCH* IE valid for the cell indicated by the *C-ID* IE and the corresponding *C-ID* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message. If the *C-ID* IE is not included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall include the *FACH Info for UE Selected S-CCPCH* IE valid for the cell where the UE is located and the corresponding *C-ID* IE. The DRNC shall include the *FACH Scheduling Priority* IE and *FACH Initial Window Size* IE in the *FACH Flow Control Information* IE of the *FACH Info for UE Selected S-CCPCH* IE for each priority class that the DRNC has determined shall be used. The DRNC may include several *MAC-c/sh SDU Length* IEs for each priority class.

If the DRNS has any RACH, ~~FDD-CPCH~~ and/or FACH resources previously allocated for the UE in another cell than the cell in which resources are currently being allocated, the DRNS shall release the previously allocated RACH, ~~FDD-CPCH~~ and/or FACH resources.

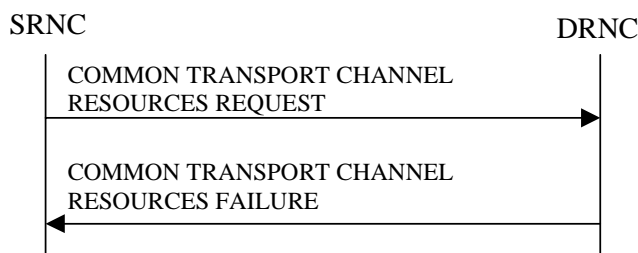
If the DRNS has successfully reserved the required resources, the DRNC shall respond to the SRNC with the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the *Permanent NAS UE Identity* IE is present in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNS shall store the information for the considered UE Context for the lifetime of the UE Context.

If the COMMON TRANSPORT CHANNEL RESOURCES 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 reserve resources on a common transport channel in this cell or not.



### 8.4.1.3 Unsuccessful Operation



**Figure 28: Common Transport Channel Resources Initialisation procedure, Unsuccessful Operation**

If the *Transport Bearer Request Indicator* IE is set to "Bearer Requested" and the DRNC is not able to provide a Transport Bearer, the DRNC shall reject the procedure and respond to the SRNC with the COMMON TRANSPORT CHANNEL RESOURCES FAILURE message, including the reason for the failure in the *Cause* IE.

If the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message contains a *C-ID* IE corresponding to a cell reserved for operator use and the Permanent NAS UE Identity is not available for the considered UE Context, the DRNC shall reject the procedure and send the COMMON TRANSPORT CHANNEL RESOURCES FAILURE message, including the reason for the failure in the *Cause* IE.

Typical cause values are:

**Radio Network Layer Causes:**

- Common Transport Channel Type not Supported;
- Cell reserved for operator use.

**Transport Layer Causes:**

- Transport Resource Unavailable.

### 8.4.1.4 Abnormal Conditions

If the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport channel intended to be established, the DRNC shall reject the procedure using the COMMON TRANSPORT CHANNEL RESOURCES FAILURE message.

## 8.4.2 Common Transport Channel Resources Release

### 8.4.2.1 General

This procedure is used by the SRNC to request release of Common Transport Channel Resources for a given UE in the DRNS. The SRNC uses this procedure either to release the UE Context from the DRNC (and thus both the D-RNTI and the C-RNTI) or to release only the C-RNTI.

This procedure shall use the connectionless mode of the signalling bearer.

### 8.4.2.2 Successful Operation



**Figure 29: Common Transport Channel Resources Release procedure, Successful Operation**

The SRNC initiates the Common Transport Channel Resources Release procedure by sending the COMMON TRANSPORT CHANNEL RESOURCES RELEASE REQUEST message to the DRNC. Upon receipt of the message the DRNC shall release the UE Context identified by the D-RNTI and all its related RACH, ~~FDD-CPCH,~~ and/or FACH resources, unless the UE is using dedicated resources (DCH, [TDD - USCH,] and/or DSCH) in the DRNS in which case the DRNC shall release only the C-RNTI and all its related RACH, ~~FDD-CPCH,~~ and/or FACH resources allocated for the UE.

#### 8.4.2.3 Abnormal Conditions

-

### 9.2.1.5 Cause

The purpose of the cause information element is to indicate the reason for a particular event for the whole protocol.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE <i>Cause Group</i>	M			
> <i>Radio Network Layer</i>				
>>Radio Network Layer Cause	M		ENUMERATED (Unknown C-ID, Cell not Available, Power Level not Supported, UL Scrambling Code Already in Use, DL Radio Resources not Available, UL Radio Resources not Available, Measurement not Supported For The Object, Combining Resources Not Available, Combining not Supported, Reconfiguration not Allowed, Requested Configuration not Supported, Synchronisation Failure, Requested Tx Diversity Mode not Supported, Measurement Temporarily not Available, Unspecified, Invalid CM Settings, Reconfiguration CFN not Elapsed, Number of DL Codes Not Supported, Dedicated Transport Channel Type not Supported, DL Shared Channel Type not Supported, UL Shared Channel Type not Supported, Common Transport Channel Type not Supported, UL Spreading Factor not Supported, DL Spreading Factor not Supported, CM not Supported, Transaction not Supported by Destination Node B, RL Already Activated/Allocated, ..., Number of UL Codes Not Supported, Cell reserved for operator use, DPC Mode Change not Supported, Information temporarily not available, Information Provision not supported for the object, Power Balancing status not compatible, Delayed Activation not Supported, RL Timing Adjustment Not Supported, Unknown RNTI)	
> <i>Transport Layer</i>				
>>Transport Layer Cause	M		ENUMERATED (Transport Resource Unavailable, Unspecified, ...)	
> <i>Protocol</i>				
>>Protocol Cause	M		ENUMERATED (Transfer Syntax Error, Abstract Syntax Error (Reject), Abstract Syntax Error (Ignore and Notify), Message not Compatible with Receiver State, Semantic Error, Unspecified, Abstract Syntax Error (Falsely Constructed Message),...)	
> <i>Misc</i>				
>>Miscellaneous Cause	M		ENUMERATED (Control Processing Overload, Hardware Failure, O&M Intervention, Not enough User Plane Processing	

			Resources, Unspecified,...)	
--	--	--	-----------------------------	--

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

<b>Radio Network Layer cause</b>	<b>Meaning</b>
Cell not Available	The concerned cell is not available
Cell reserved for operator use	The concerned cell is reserved for operator use
Combining not Supported	The DRNS does not support the RL combining for the concerned cells
Combining Resources Not Available	The value of the received <i>Diversity Control Field</i> IE was set to "Must", but the DRNS cannot perform the requested combining
CM not Supported	The concerned cell(s) do not support Compressed Mode
Common Transport Channel Type not Supported	The concerned cell(s) do not support the RACH and/or FACH <del>and/or CPCH</del> Common Transport Channel Type
Dedicated Transport Channel Type not Supported	The concerned cell(s) do not support the Dedicated Transport Channel Type
Delayed Activation not Supported	The concerned cell(s) do not support delayed activation of RLs
DL Radio Resources not Available	The DRNS does not have sufficient DL radio resources available
DL SF not Supported	The concerned cell(s) do not support the requested DL SF
DL Shared Channel Type not Supported	The concerned cell(s) do not support the Downlink Shared Channel Type
DPC Mode Change not Supported	The concerned cells do not support the DPC mode changes
Information Provision not supported for the object	The RNS doesn't support provision of the requested information for the concerned object types
Information temporarily not available	The RNS can temporarily not provide the requested information
Invalid CM Settings	The concerned cell(s) consider the requested Compressed Mode settings invalid
Measurement not Supported For The Object	At least one of the concerned cell(s) does not support the requested measurement on the concerned object type
Measurement Temporarily not Available	The DRNS can temporarily not provide the requested measurement value
Number of DL Codes not Supported	The concerned cell(s) do not support the requested number of DL codes
Number of UL Codes not Supported	The concerned cell(s) do not support the requested number of UL codes
Power Level not Supported	A DL power level was requested which the concerned cell(s) do not support
Power Balancing status not compatible	The power balancing status in the SRNC is not compatible with that of the DRNC.
RL Timing Adjustment not Supported	The concerned cell(s) do not support adjustments of the RL timing
Reconfiguration CFN not Elapsed	The requested action cannot be performed due to that a COMMIT message was received previously, but the concerned CFN has not yet elapsed
Reconfiguration not Allowed	The SRNC does currently not allow the requested reconfiguration
Requested Configuration not Supported	The concerned cell(s) do not support the requested configuration i.e. power levels, Transport Formats, physical channel parameters,.....
Requested Tx Diversity mode not Supported	The concerned cell(s) do not support the requested transmit diversity mode
RL Already Activated/ Allocated	The DRNS has already allocated an RL with the requested RL ID for this UE Context
Synchronisation Failure	Loss of UL Uu synchronisation

Transaction not Supported by Destination Node B	The requested action cannot be performed due to lack of support of the corresponding action in the destination Node B
UL Radio Resources not Available	The DRNS does not have sufficient UL radio resources available
UL Scrambling Code Already in Use	The concerned UL scrambling code is already in use for another UE
UL SF not Supported	The concerned cell(s) do not support the requested minimum UL SF
UL Shared Channel Type not Supported	The concerned cell(s) do not support the Uplink Shared Channel Type
Unknown C-ID	The DRNS is not aware of a cell with the provided C-ID
Unknown RNTI	The SRNC or DRNC is not aware of a UE indicated with the provided RNTI
Unspecified	Sent when none of the above cause values applies but still the cause is Radio Network Layer related

<b>Transport Network Layer cause</b>	<b>Meaning</b>
Transport resource unavailable	The required transport resources are not available
Unspecified	Sent when none of the above cause values applies but still the cause is Transport Network Layer related

<b>Protocol cause</b>	<b>Meaning</b>
Abstract Syntax Error (Reject)	The received message included an abstract syntax error and the concerned criticality indicated "reject" (see subclause 10.3)
Abstract Syntax Error (Ignore and Notify)	The received message included an abstract syntax error and the concerned criticality indicated "ignore and notify" (see subclause 10.3)
Abstract syntax error (falsely constructed message)	The received message contained IEs or IE groups in wrong order or with too many occurrences (see subclause 10.3)
Message not Compatible with Receiver State	The received message was not compatible with the receiver state (see subclause 10.4)
Semantic Error	The received message included a semantic error (see subclause 10.4)
Transfer Syntax Error	The received message included a transfer syntax error (see subclause 10.2)
Unspecified	Sent when none of the above cause values applies but still the cause is Protocol related

<b>Miscellaneous cause</b>	<b>Meaning</b>
Control Processing Overload	DRNS control processing overload
Hardware Failure	DRNS hardware failure
Not enough User Plane Processing Resources	DRNS has insufficient user plane processing resources available
O&M Intervention	Operation and Maintenance intervention related to DRNS equipment
Unspecified	Sent when none of the above cause values applies and the cause is not related to any of the categories Radio Network Layer, Transport Network Layer or Protocol.

## CHANGE REQUEST

# 25.423 CR 1059 # rev - # Current version: 6.5.0 #

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

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	# Feature Cleanup: Removal of CPCH		
<b>Source:</b>	# RAN3		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 19/04/2005
<b>Category:</b>	# <b>C</b>	<b>Release:</b>	# Rel-6
	<p>Use <u>one</u> of the following categories:</p> <p><b>F</b> (correction)</p> <p><b>A</b> (corresponds to a correction in an earlier release)</p> <p><b>B</b> (addition of feature),</p> <p><b>C</b> (functional modification of feature)</p> <p><b>D</b> (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a>.</p>		<p>Use <u>one</u> of the following releases:</p> <p>Ph2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>Rel-4 (Release 4)</p> <p>Rel-5 (Release 5)</p> <p>Rel-6 (Release 6)</p> <p>Rel-7 (Release 7)</p>

<b>Reason for change:</b>	# At RAN Plenary #27 it was decided to remove the feature: CPCH from this version of protocol.
<b>Summary of change:</b>	# CPCH is removed from the specification.
	<p><b>Isolated Impact Analysis</b></p> <p>Feature removed: CPCH</p> <p>Isolated impact statement: Feature is removed, UE implementations are not affected. Would affect UTRAN implementations supporting the removed functionality.</p>
<b>Consequences if not approved:</b>	# The decision taken at RAN Plenary #27 to remove this feature is violated

<b>Clauses affected:</b>	# 3.3, 8.2.1, 8.2.2, 8.4.1, 8.4.2, 9.2.1.5,										
<b>Other specs</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td></td> <td style="text-align: center;">X</td> </tr> </table>	Y	N	X			X		X	Other core specifications	# 25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.420, 25.424, 25.425, 25.430, 25.433, 25.434, 25.435
Y	N										
X											
	X										
	X										
<b>affected:</b>		Test specifications									
		O&M Specifications									

**Other comments:** ☹

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

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>.

Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ☹ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> 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

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
CM	Compressed Mode
CN	Core Network
<del>CPCH</del>	<del>Common Packet Channel</del>
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
DRNC	Drift RNC
DRNS	Drift RNS
D-RNTI	Drift Radio Network Temporary Identifier
DRX	Discontinuous Reception
DSCH	Downlink Shared Channel
$E_c$	Energy in single Code
E-DCH	Enhanced UL DCH
EDSCHPC	Enhanced Downlink Shared Channel Power Control
EP	Elementary Procedure
FACH	Forward Access Channel
FDD	Frequency Division Duplex
F-DPCH	Fractional DPCH
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
MBMS	Multimedia Broadcast Multicast Service
MS	Mobile Station
NACC	Network Assisted 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
<del>PCPCH</del>	<del>Physical Common Packet Channel</del>
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
QE	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	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
SF	System Frame
SFN	System Frame Number
SHCCH	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 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

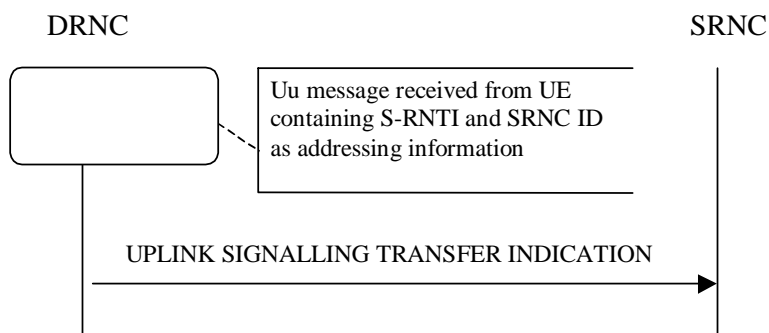
## 8.2.1 Uplink Signalling Transfer

### 8.2.1.1 General

The procedure is used by the DRNC to forward a Uu message received on the CCCH to the SRNC.

This procedure shall use the connectionless mode of the signalling bearer.

### 8.2.1.2 Successful Operation



**Figure 1: Uplink Signalling Transfer procedure, Successful Operation**

When the DRNC receives an Uu message on the CCCH in which the UE addressing information is U-RNTI, i.e. S-RNTI and SRNC-ID, DRNC shall send the UPLINK SIGNALLING TRANSFER INDICATION message to the SRNC identified by the SRNC-ID received from the UE.

If at least one URA Identity is being broadcast in the cell where the Uu message was received (the accessed cell), the DRNC shall include a URA Identity for this cell in the *URA ID IE*, the *Multiple URAs Indicator IE* indicating whether or not multiple URA Identities are being broadcast in the accessed cell, and the RNC Identity of all other RNCs that are having at least one cell within the URA where the Uu message was received in the *URA Information IE* in the UPLINK SIGNALLING TRANSFER INDICATION message.

The DRNC shall include in the message the C-RNTI that it allocates to identify the UE in the radio interface in the accessed cell. If there is no valid C-RNTI for the UE in the accessed cell, the DRNS shall allocate a new C-RNTI for the UE. If the DRNS allocates a new C-RNTI it shall also release any C-RNTI previously allocated for the UE.

If the DRNS has any RACH, ~~FDD-CPCH~~, and/or FACH resources allocated for the UE identified by the U-RNTI in another cell than the accessed cell in which the Mac SDU sizes, flow control settings (including credits) and/or transport bearer are different from those in the old cell, then the DRNS shall not include the *Common Transport Channel Resources Initialisation Not Required IE* in the UPLINK SIGNALLING TRANSFER INDICATION message. In addition the DRNS shall release these RACH, ~~FDD-CPCH~~, and/or FACH resources in old cell.

If the DRNS has any RACH, ~~FDD-CPCH~~, and/or FACH resources allocated for the UE identified by the U-RNTI in another cell than the accessed cell in which the Mac SDU sizes, flow control settings (including credits) and transport bearer are the same as in the old cell, there is no need for Common Transport Channel Resources Initialisation to be initiated. In that case, DRNC may include the *Common Transport Channel Resources Initialisation Not Required IE* in the UPLINK SIGNALLING TRANSFER INDICATION message. In addition, the DRNS shall move these RACH, ~~FDD-CPCH~~, and/or FACH resources to the new cell. If no Common Transfer Channel Resources Initialisation procedure is executed, the currently applicable Mac SDU sizes, flow control settings (including credits) and transport bearer shall continue to be used while the UE is in the new cell.

If no context exists for this UE in the DRNC, the DRNC shall create a UE Context for this UE, allocate a D-RNTI for the UE Context, and include the *D-RNTI IE* and the identifiers for the CN CS Domain and CN PS Domain that the DRNC is connected to in the UPLINK SIGNALLING TRANSFER INDICATION message. These CN Domain Identifiers shall be based on the LAC and RAC respectively of the cell where the message was received from the UE.

Depending on local configuration in the DRNS, it may include the geographical co-ordinates of the cell, represented either by the *Cell GAI IE* or by the *Cell GA Additional Shapes IE*, in which the Uu message was received in the UPLINK SIGNALLING TRANSFER INDICATION message. If the DRNC includes the *Cell GA Additional Shapes IE* in the UPLINK SIGNALLING TRANSFER INDICATION message, it shall also include the *Cell GAI IE*.

[FDD - The DRNC shall include the *DPC Mode Change Support Indicator IE* in the UPLINK SIGNALLING TRANSFER INDICATION message if the accessed cell supports DPC mode change.]

The DRNC shall include [FDD - the *Cell Capability Container FDD IE*] [3.84Mcps TDD - the *Cell Capability Container TDD IE*] [1.28Mcps TDD - the *Cell Capability Container TDD LCR IE*] in the UPLINK SIGNALLING TRANSFER INDICATION message if the accessed cell supports any functionalities listed in [FDD - 9.2.2.D] [3.84Mcps TDD - 9.2.3.1a] [1.28Mcps TDD - 9.2.3.1b].

If available, the DRNC shall include the *SNA Information IE* for the concerned cell.

When receiving the *SNA Information IE*, the SRNC should use it to restrict cell access based on SNA information. See also [40] for a broader description of the SNA access control.

[FDD - The DRNC shall include the *Cell Portion ID IE* in the UPLINK SIGNALLING TRANSFER INDICATION message if available.]

If the *D-RNTI IE* is not to be included in the UPLINK SIGNALLING TRANSFER INDICATION message and the UE Link is currently stored in the UE Context in the DRNC, the DRNC shall assume that the UE changes the cell under which it camps in the DRNS (see ref. [50], section 5.1.6 on intra-DRNC cell change). In this case, if an MBMS session for some MBMS bearer services contained in the UE Link is ongoing in the cell identified by the *UC-ID IE*, the DRNC shall include in the *Active MBMS Bearer Service List IE* the *Transmission Mode IE* for each of these active MBMS bearer services.

### 8.2.1.3 Abnormal Conditions

-

## 8.2.2 Downlink Signalling Transfer

### 8.2.2.1 General

The procedure is used by the SRNC to request to the DRNC the transfer of a Uu message on the CCCH in a cell. When used, the procedure is in response to a received Uplink Signalling Transfer procedure.

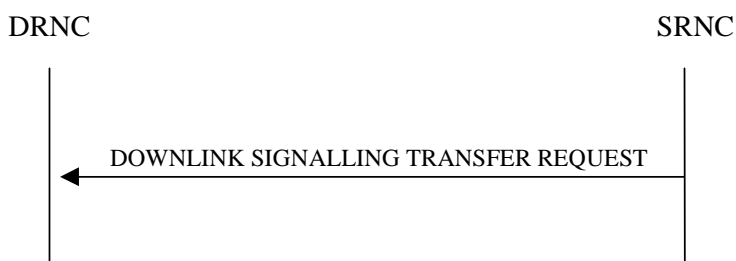
This procedure shall use the connectionless mode of the signalling bearer.

#### 8.2.2.1.1 Downlink Signalling Transfer for lur-g

The procedure is used by the SRNC/SBSS to request to the DBSS the transfer of an Um message on the SRB2 in a cell.

The procedure is used by the SBSS to request to the DRNC the transfer of a Uu message on the CCCH in a cell.

### 8.2.2.2 Successful Operation



**Figure 2: Downlink Signalling Transfer procedure, Successful Operation**

The procedure consists of the DOWNLINK SIGNALLING TRANSFER REQUEST message sent by the SRNC to the DRNC.

The message contains the Cell Identifier (C-ID) contained in the received UPLINK SIGNALLING TRANSFER INDICATION message and the D-RNTI.

Upon receipt of the message, the DRNC shall send the L3 Information on the CCCH in the cell indicated by the *C-ID* IE to the UE identified by the *D-RNTI* IE.

If the *D-RNTI Release Indication* IE is set to "Release D-RNTI" and the DRNS has no dedicated resources (DCH, [TDD - USCH,] and/or DSCH) allocated for the UE, the DRNS shall release the D-RNTI, the UE Context and any RACH, ~~FDD - CPCH,~~ and FACH resources and any C-RNTI allocated to the UE Context upon receipt of the DOWNLINK SIGNALLING TRANSFER REQUEST message. If a UE Link is currently stored in the UE Context, the DRNC shall perform UE De-linking as specified in [50], section 5.1.6.

If the *D-RNTI Release Indication* IE is set to "Release D-RNTI" and the DRNS has dedicated resources allocated for the UE, the DRNS shall only release any RACH, ~~FDD - CPCH,~~ and FACH resources and any C-RNTI allocated to the UE Context upon receipt of the DOWNLINK SIGNALLING TRANSFER REQUEST message.

If the *MBMS Bearer Service List* IE is included and *URA-ID* IE is not included in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the DRNC shall perform the UE Linking as specified in [50], section 5.1.6.

If the *MBMS Bearer Service List* IE is included and the *URA-ID* IE is included in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the DRNC shall perform the URA Linking as specified in [50], section 5.1.10.

If the *MBMS Bearer Service List* IE is included and the *Old URA-ID* IE is included in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the DRNC shall perform URA De-linking for the URA identified by the *Old URA-ID* IE as specified in [50], section 5.1.10.

#### 8.2.2.2.1 Successful Operation for lur-g

The procedure consists of the DOWNLINK SIGNALLING TRANSFER REQUEST message sent by the SRNC/SBSS to the DBSS or by the SBSS to the DRNC.

The message contains the Cell Identifier (*C-ID*) contained in the received UPLINK SIGNALLING TRANSFER INDICATION message and the *D-RNTI*.

Upon receipt of the message, the DBSS shall send the L3 Information on the SRB2 in the cell indicated by the *C-ID* IE to the UE/MS identified by the *D-RNTI* IE.

Upon receipt of the message, the DRNC shall send the L3 Information on the CCCH in the cell indicated by the *C-ID* IE to the UE/MS identified by the *D-RNTI* IE.

### 8.2.2.3 Abnormal Conditions

If the user identified by the *D-RNTI* IE has already accessed another cell controlled by the DRNC than the cell identified by the *C-ID* IE in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the message shall be ignored.

#### 8.2.2.3.1 Abnormal Conditions for Iur-g

If the user identified by the *D-RNTI* IE has already accessed another cell controlled by the DRNC/DBSS than the cell identified by the *C-ID* IE in the DOWNLINK SIGNALLING TRANSFER REQUEST message, the message shall be ignored.

If the DRNC receives from the SBSS the DOWNLINK SIGNALLING TRANSFER REQUEST message, in which the *D-RNTI Release Indication* IE is set to "not Release D-RNTI", the DRNC shall ignore this IE and release the *D-RNTI*.

If the DBSS receives from the SBSS/SRNC the DOWNLINK SIGNALLING TRANSFER REQUEST message, in which the *D-RNTI Release Indication* IE is set to "not Release D-RNTI", the DBSS shall ignore this IE and release the *D-RNTI*.

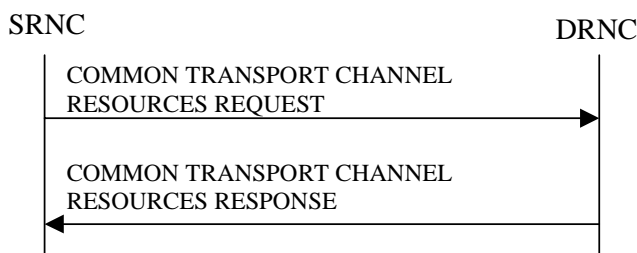
## 8.4.1 Common Transport Channel Resources Initialisation

### 8.4.1.1 General

The Common Transport Channel Resources Initialisation procedure is used by the SRNC for the initialisation of the Common Transport Channel user plane towards the DRNC and/or for the initialisation of the Common Transport Channel resources in the DRNC to be used by a UE.

This procedure shall use the connectionless mode of the signalling bearer.

### 8.4.1.2 Successful Operation



**Figure 27: Common Transport Channel Resources Initialisation procedure, Successful Operation**

The SRNC initiates the procedure by sending the message COMMON TRANSPORT CHANNEL RESOURCES REQUEST message to the DRNC.

If the value of the *Transport Bearer Request Indicator* IE is set to "Bearer Requested", the DRNC shall store the received *Transport Bearer ID* IE. The DRNC may use the *Transport Layer Address* and *Binding ID* IEs included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message received from the SRNC when establishing a transport bearer for the common transport channel. In addition, the DRNC shall include its own *Binding ID* IE and *Transport Layer Address* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the value of the *Transport Bearer Request Indicator* IE is set to "Bearer not Requested", the DRNC shall use the transport bearer indicated by the *Transport Bearer ID* IE.

If the *C-ID* IE is included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall allocate a C-RNTI for the indicated cell and include the *C-RNTI* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

If the *C-ID* IE is included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall include the *FACH Info for UE Selected S-CCPCH* IE valid for the cell indicated by the *C-ID* IE and the corresponding *C-ID* IE in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message. If the *C-ID* IE is not included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall include the *FACH Info for UE Selected S-CCPCH* IE valid for the cell where the UE is located and the corresponding *C-ID* IE. The DRNC shall include the *FACH Scheduling Priority* IE and *FACH Initial Window Size* IE in the *FACH Flow Control Information* IE of the *FACH Info for UE Selected S-CCPCH* IE for each priority class that the DRNC has determined shall be used. The DRNC may include several *MAC-c/sh SDU Length* IEs for each priority class.

If the DRNS has any RACH, ~~FDD-CPCH~~ and/or FACH resources previously allocated for the UE in another cell than the cell in which resources are currently being allocated, the DRNS shall release the previously allocated RACH, ~~FDD-CPCH~~ and/or FACH resources.

If the DRNS has successfully reserved the required resources, the DRNC shall respond to the SRNC with the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

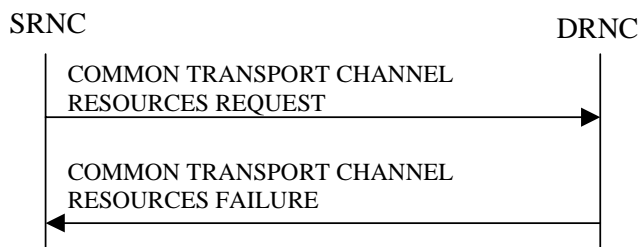
If the *Permanent NAS UE Identity* IE is present in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNS shall store the information for the considered UE Context for the lifetime of the UE Context.

If the COMMON TRANSPORT CHANNEL RESOURCES 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 reserve resources on a common transport channel in this cell or not.



If the *MBMS Bearer Service List* IE is included in the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message, the DRNC shall perform the UE Linking as specified in [50], section 5.1.6. If an MBMS session for some MBMS bearer services contained in the UE Link is ongoing in the cell identified by the *C-ID* IE, the DRNC shall include in the *Active MBMS Bearer Service List* IE the *Transmission Mode* IE for each of these active MBMS bearer services in the COMMON TRANSPORT CHANNEL RESOURCES RESPONSE message.

### 8.4.1.3 Unsuccessful Operation



**Figure 28: Common Transport Channel Resources Initialisation procedure, Unsuccessful Operation**

If the *Transport Bearer Request Indicator* IE is set to "Bearer Requested" and the DRNC is not able to provide a Transport Bearer, the DRNC shall reject the procedure and respond to the SRNC with the COMMON TRANSPORT CHANNEL RESOURCES FAILURE message, including the reason for the failure in the *Cause* IE.

If the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message contains a *C-ID* IE corresponding to a cell reserved for operator use and the Permanent NAS UE Identity is not available for the considered UE Context, the DRNC shall reject the procedure and send the COMMON TRANSPORT CHANNEL RESOURCES FAILURE message, including the reason for the failure in the *Cause* IE.

Typical cause values are:

#### Radio Network Layer Causes:

- Common Transport Channel Type not Supported;
- Cell reserved for operator use.

#### Transport Layer Causes:

- Transport Resource Unavailable.

### 8.4.1.4 Abnormal Conditions

If the COMMON TRANSPORT CHANNEL RESOURCES REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport channel intended to be established, the DRNC shall reject the procedure using the COMMON TRANSPORT CHANNEL RESOURCES FAILURE message.

## 8.4.2 Common Transport Channel Resources Release

### 8.4.2.1 General

This procedure is used by the SRNC to request release of Common Transport Channel Resources for a given UE in the DRNS. The SRNC uses this procedure either to release the UE Context from the DRNC (and thus both the D-RNTI and the C-RNTI) or to release only the C-RNTI.

This procedure shall use the connectionless mode of the signalling bearer.

### 8.4.2.2 Successful Operation



**Figure 29: Common Transport Channel Resources Release procedure, Successful Operation**

The SRNC initiates the Common Transport Channel Resources Release procedure by sending the COMMON TRANSPORT CHANNEL RESOURCES RELEASE REQUEST message to the DRNC. Upon receipt of the message the DRNC shall release the UE Context identified by the D-RNTI and all its related RACH, ~~FDD-CPCH,~~ and/or FACH resources, unless the UE is using dedicated resources (DCH, [TDD - USCH,] and/or DSCH) in the DRNS in which case the DRNC shall release only the C-RNTI and all its related RACH, ~~FDD-CPCH,~~ and/or FACH resources allocated for the UE.

### 8.4.2.3 Abnormal Conditions

-

### 9.2.1.5 Cause

The purpose of the cause information element is to indicate the reason for a particular event for the whole protocol.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE <i>Cause Group</i>	M			
> <i>Radio Network Layer</i>				
>>Radio Network Layer Cause	M		ENUMERATED (Unknown C-ID, Cell not Available, Power Level not Supported, UL Scrambling Code Already in Use, DL Radio Resources not Available, UL Radio Resources not Available, Measurement not Supported For The Object, Combining Resources Not Available, Combining not Supported, Reconfiguration not Allowed, Requested Configuration not Supported, Synchronisation Failure, Requested Tx Diversity Mode not Supported, Measurement Temporarily not Available, Unspecified, Invalid CM Settings, Reconfiguration CFN not Elapsed, Number of DL Codes Not Supported, Dedicated Transport Channel Type not Supported, DL Shared Channel Type not Supported, UL Shared Channel Type not Supported, Common Transport Channel Type not Supported, UL Spreading Factor not Supported, DL Spreading Factor not Supported, CM not Supported, Transaction not Supported by Destination Node B, RL Already Activated/Allocated, ..., Number of UL Codes Not Supported, Cell reserved for operator use, DPC Mode Change not Supported, Information temporarily not available, Information Provision not supported for the object, Power Balancing status not compatible, Delayed Activation not Supported, RL Timing Adjustment Not Supported, Unknown RNTI, Measurement Repetition Rate not Compatible with Current Measurements, UE not Capable to Implement Measurement, HARQ Preamble Mode not supported, E-DCH not supported, F-DPCH not supported)	
> <i>Transport Layer</i>				
>>Transport Layer Cause	M		ENUMERATED (Transport Resource Unavailable, Unspecified, ...)	
> <i>Protocol</i>				
>>Protocol Cause	M		ENUMERATED (Transfer Syntax Error, Abstract Syntax Error (Reject), Abstract Syntax Error (Ignore and Notify), Message not Compatible with Receiver State, Semantic Error, Unspecified,	

			Abstract Syntax Error (Falsely Constructed Message),...	
>Misc				
>>Miscellaneous Cause	M		ENUMERATED (Control Processing Overload, Hardware Failure, O&M Intervention, Not enough User Plane Processing Resources, Unspecified,...)	

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

Radio Network Layer cause	Meaning
Cell not Available	The concerned cell is not available
Cell reserved for operator use	The concerned cell is reserved for operator use
Combining not Supported	The DRNS does not support the RL combining for the concerned cells
Combining Resources Not Available	The value of the received <i>Diversity Control Field</i> IE was set to "Must", but the DRNS cannot perform the requested combining
CM not Supported	The concerned cell(s) do not support Compressed Mode
Common Transport Channel Type not Supported	The concerned cell(s) do not support the RACH and/or FACH <del>and/or CPCH</del> Common Transport Channel Type
Dedicated Transport Channel Type not Supported	The concerned cell(s) do not support the Dedicated Transport Channel Type
Delayed Activation not Supported	The concerned cell(s) do not support delayed activation of RLs
DL Radio Resources not Available	The DRNS does not have sufficient DL radio resources available
DL SF not Supported	The concerned cell(s) do not support the requested DL SF
DL Shared Channel Type not Supported	The concerned cell(s) do not support the Downlink Shared Channel Type
DPC Mode Change not Supported	The concerned cells do not support the DPC mode changes
E-DCH not supported	The concerned cell(s) do not support E-DCH
F-DPCH not supported	The concerned cell(s) do not support the Fractional DPCH
HARQ Preamble Mode not supported	The concerned cell does not support the HARQ Preamble Mode
Information Provision not supported for the object	The RNS doesn't support provision of the requested information for the concerned object types
Information temporarily not available	The RNS can temporarily not provide the requested information
Invalid CM Settings	The concerned cell(s) consider the requested Compressed Mode settings invalid
Measurement not Supported For The Object	At least one of the concerned cell(s) does not support the requested measurement on the concerned object type
Measurement Repetition Rate not Compatible with Current Measurements	The requested parameters for a forwarded UE measurement are not compatible with the current measurement schedule in the SRNC.
Measurement Temporarily not Available	The DRNS can temporarily not provide the requested measurement value
Number of DL Codes not Supported	The concerned cell(s) do not support the requested number of DL codes
Number of UL Codes not Supported	The concerned cell(s) do not support the requested number of UL codes
Power Level not Supported	A DL power level was requested which the concerned cell(s) do not support
Power Balancing status not compatible	The power balancing status in the SRNC is not compatible with that of the DRNC.
RL Timing Adjustment not Supported	The concerned cell(s) do not support adjustments of the RL timing
Reconfiguration CFN not Elapsed	The requested action cannot be performed due to that a COMMIT message was received previously, but the concerned CFN has not yet elapsed

Reconfiguration not Allowed	The SRNC does currently not allow the requested reconfiguration
Requested Configuration not Supported	The concerned cell(s) do not support the requested configuration i.e. power levels, Transport Formats, physical channel parameters,.....
Requested Tx Diversity mode not Supported	The concerned cell(s) do not support the requested transmit diversity mode
RL Already Activated/ Allocated	The DRNS has already allocated an RL with the requested RL ID for this UE Context
Synchronisation Failure	Loss of UL Uu synchronisation
Transaction not Supported by Destination Node B	The requested action cannot be performed due to lack of support of the corresponding action in the destination Node B
UE not Capable to Implement Measurement	The UE is not capable to initiate/report a requested measurement due to its current state or capabilities.
UL Radio Resources not Available	The DRNS does not have sufficient UL radio resources available
UL Scrambling Code Already in Use	The concerned UL scrambling code is already in use for another UE
UL SF not Supported	The concerned cell(s) do not support the requested minimum UL SF
UL Shared Channel Type not Supported	The concerned cell(s) do not support the Uplink Shared Channel Type
Unknown C-ID	The DRNS is not aware of a cell with the provided C-ID
Unknown RNTI	The SRNC or DRNC is not aware of a UE indicated with the provided RNTI
Unspecified	Sent when none of the above cause values applies but still the cause is Radio Network Layer related

<b>Transport Network Layer cause</b>	<b>Meaning</b>
Transport resource unavailable	The required transport resources are not available
Unspecified	Sent when none of the above cause values applies but still the cause is Transport Network Layer related

<b>Protocol cause</b>	<b>Meaning</b>
Abstract Syntax Error (Reject)	The received message included an abstract syntax error and the concerned criticality indicated "reject" (see subclause 10.3)
Abstract Syntax Error (Ignore and Notify)	The received message included an abstract syntax error and the concerned criticality indicated "ignore and notify" (see subclause 10.3)
Abstract syntax error (falsely constructed message)	The received message contained IEs or IE groups in wrong order or with too many occurrences (see subclause 10.3)
Message not Compatible with Receiver State	The received message was not compatible with the receiver state (see subclause 10.4)
Semantic Error	The received message included a semantic error (see subclause 10.4)
Transfer Syntax Error	The received message included a transfer syntax error (see subclause 10.2)
Unspecified	Sent when none of the above cause values applies but still the cause is Protocol related

<b>Miscellaneous cause</b>	<b>Meaning</b>
Control Processing Overload	DRNS control processing overload
Hardware Failure	DRNS hardware failure
Not enough User Plane Processing Resources	DRNS has insufficient user plane processing resources available
O&M Intervention	Operation and Maintenance intervention related to DRNS equipment
Unspecified	Sent when none of the above cause values applies and the cause is not related to any of the categories Radio Network Layer, Transport Network Layer or Protocol.

## CHANGE REQUEST

# 25.424 CR 030 # rev - # Current version: 5.4.0 #

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

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	# Feature Cleanup: Removal of CPCH		
<b>Source:</b>	# RAN3		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 19/04/2005
<b>Category:</b>	# <b>C</b>	<b>Release:</b>	# Rel-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>Ph2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6) <b>Rel-7</b> (Release 7)

<b>Reason for change:</b>	# At RAN Plenary #27 it was decided to remove the feature: CPCH from this version of protocol.
<b>Summary of change:</b>	# CPCH is removed from the specification.
	<b>Isolated Impact Analysis</b> Feature removed: CPCH  Isolated impact statement: Feature is removed, UE implementations are not affected. Would affect UTRAN implementations supporting the removed functionality.
<b>Consequences if not approved:</b>	# The decision taken at RAN Plenary #27 to remove this feature is violated

<b>Clauses affected:</b>	# 3, 5,						
<b>Other specs</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> </table> Other core specifications	Y	N	X		#	25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.420, 25.423, 25.425, 25.430, 25.433, 25.434, 25.435
Y	N						
X							
<b>affected:</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">X</td> <td>Test specifications</td> </tr> <tr> <td style="width: 20px; text-align: center;">X</td> <td>O&amp;M Specifications</td> </tr> </table>	X	Test specifications	X	O&M Specifications		
X	Test specifications						
X	O&M Specifications						

**Other comments:** ☹

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

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>.

Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ☹ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> 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 Definitions and abbreviations

### 3.1 Definitions

Common Transport Channels are defined as transport channels that are shared by several users i.e. RACH, ~~CPCH~~ ~~FDD~~, FACH, DSCH and HS-DSCH.

### 3.2 Abbreviations

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

AAL2	ATM Adaptation Layer type 2
AAL5	ATM Adaptation Layer type 5
AESA	ATM End System Address
ALCAP	Access Link Control Application Part
ATM	Asynchronous Transfer Mode
<del>CPCH</del>	<del>Common Packet Channel</del>
CPS	Common Part Sublayer
DiffServ	Differentiated Services
DSCH	Downlink Shared Channel
FACH	Forward Access Channel
HDLC	High level Data Link Control
HS-DSCH	High Speed Downlink Shared Channel
IP	Internet Protocol
IPv4	Internet Protocol, version 4
IPv6	Internet Protocol, version 6
IWF	Interworking Function
IWU	Interworking Unit
LC	Link Characteristics
ML/MC PPP	Multilink-Multiclass PPP
MPLS	Multiprotocol Label Switching
MTP	Message Transfer Part
NNI	Network-Node Interface
NSAP	Network Service Access Point
PPP	Point-to-Point Protocol
PPPMux	PPP Multiplexing
PT	Path Type
QoS	Quality of Service
RACH	Random Access Channel
SAAL	Signalling ATM Adaptation Layer
SDU	Service Data Unit
SSCOP	Service Specific Connection Oriented Protocol
SSCF	Service Specific Co-ordination Function
SSCS	Service Specific Convergence Sublayer
SSSAR	Service Specific Segmentation and Re-assembly sublayer
STC	Signalling Transport Converter
TNL	Transport Network Layer
UDP	User Datagram Protocol
UNI	User-Network Interface
USCH	Uplink Shared Channel

## 5 I<sub>ur</sub> Data Transport for Common Transport Channel Data Streams

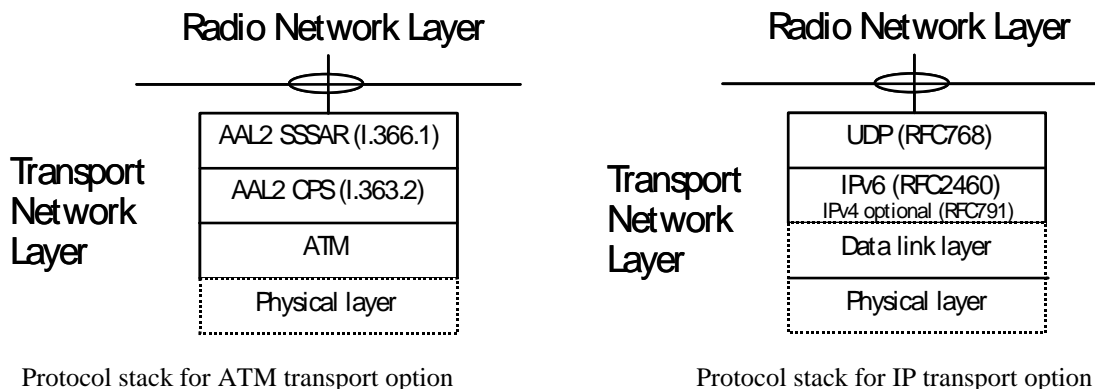
### 5.1 Introduction

This clause specifies the transport layers that support Common Channels (FACH, RACH, ~~CPCH [FDD]~~, DSCH, HS-DSCH, USCH [TDD]) I<sub>ur</sub> data streams.

There are two options for the transport layer of the Common Channels data streams in I<sub>ur</sub> and I<sub>ub</sub>:

- 1) ATM based Transport (ATM transport option)
- 2) IP based Transport (IP transport option)

The following figure shows the protocol stacks of the two options.



**Figure 1: Transport network layer for DCH data streams over I<sub>ur</sub> and I<sub>ub</sub> interfaces**

### 5.2 ATM Transport Option

ATM [1], AAL type 2 (ITU-T Recommendations I.363.2 [2] and I.366.1 [3]) is used as the standard transport layer for RACH, ~~CPCH [FDD]~~, FACH, USCH [TDD], DSCH and HS-DSCH I<sub>ur</sub> data streams.

These AAL2 connections are established via the transport signalling protocol described in clause 5.

Figure 1 shows the protocol stack for the transport of RACH, ~~CPCH [FDD]~~, FACH, USCH [TDD], DSCH and HS-DSCH I<sub>ur</sub> data streams using the ATM Transport Option. Service Specific Segmentation and Re-assembly (SSSAR) is used for the segmentation and re-assembly of AAL2 SDUs (i.e. SSSAR is only considered from ITU-T Recommendation I.366.1 [3]).

### 5.3 IP Option

UDP [18] over IP shall be used as the transport for DCH data streams on I<sub>ub</sub> and I<sub>ur</sub> interfaces. The data link layer is as specified in subclause 4.2.

An IP UTRAN Node shall support IPv6 [16]. The support of IPv4 [17] is optional.

Note: This does not preclude single implementation of IPv4.

IP dual stack support is recommended for the potential transition period from IPv4 to IPv6 in the transport network.

The transport bearer is identified by the UDP port number and the IP address (source UDP port number, destination UDP port number, source IP address, destination IP address).

IP Differentiated Services code point marking [18] shall be supported. The mapping between traffic categories and Diffserv code points shall be configurable by O&M. Traffic categories are implementation-specific and may be determined from the application parameters.

## CHANGE REQUEST

# 25.424 CR 031 # rev - # Current version: 6.1.0 #

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

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	# Feature Cleanup: Removal of CPCH		
<b>Source:</b>	# RAN3		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 19/04/2005
<b>Category:</b>	# <b>C</b>	<b>Release:</b>	# Rel-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>Ph2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6) <b>Rel-7</b> (Release 7)

<b>Reason for change:</b>	# At RAN Plenary #27 it was decided to remove the feature: CPCH from this version of protocol.
<b>Summary of change:</b>	# CPCH is removed from the specification.
	<b>Isolated Impact Analysis</b> Feature removed: CPCH  Isolated impact statement: Feature is removed, UE implementations are not affected. Would affect UTRAN implementations supporting the removed functionality.
<b>Consequences if not approved:</b>	# The decision taken at RAN Plenary #27 to remove this feature is violated

<b>Clauses affected:</b>	# 3, 5,						
<b>Other specs</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> </table> Other core specifications	Y	N	X		#	25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.420, 25.423, 25.425, 25.430, 25.433, 25.434, 25.435
Y	N						
X							
<b>affected:</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">X</td> <td>Test specifications</td> </tr> <tr> <td style="width: 20px; text-align: center;">X</td> <td>O&amp;M Specifications</td> </tr> </table>	X	Test specifications	X	O&M Specifications		
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**Other comments:** ☹

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## 3 Definitions and abbreviations

### 3.1 Definitions

Common Transport Channels are defined as transport channels that are shared by several users i.e. RACH, ~~CPCH~~ ~~FDD~~, FACH, DSCH and HS-DSCH.

### 3.2 Abbreviations

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

AAL2	ATM Adaptation Layer type 2
AAL5	ATM Adaptation Layer type 5
AESA	ATM End System Address
ALCAP	Access Link Control Application Part
ATM	Asynchronous Transfer Mode
<del>CPCH</del>	<del>Common Packet Channel</del>
CPS	Common Part Sublayer
DiffServ	Differentiated Services
DSCH	Downlink Shared Channel
FACH	Forward Access Channel
HDLC	High level Data Link Control
HS-DSCH	High Speed Downlink Shared Channel
IP	Internet Protocol
IPv4	Internet Protocol, version 4
IPv6	Internet Protocol, version 6
IWF	Interworking Function
IWU	Interworking Unit
LC	Link Characteristics
ML/MC PPP	Multilink-Multiclass PPP
MPLS	Multiprotocol Label Switching
MTP	Message Transfer Part
NNI	Network-Node Interface
NSAP	Network Service Access Point
PPP	Point-to-Point Protocol
PPPMux	PPP Multiplexing
PT	Path Type
QoS	Quality of Service
RACH	Random Access Channel
SAAL	Signalling ATM Adaptation Layer
SDU	Service Data Unit
SSCOP	Service Specific Connection Oriented Protocol
SSCF	Service Specific Co-ordination Function
SSCS	Service Specific Convergence Sublayer
SSSAR	Service Specific Segmentation and Re-assembly sublayer
STC	Signalling Transport Converter
TNL	Transport Network Layer
UDP	User Datagram Protocol
UNI	User-Network Interface
USCH	Uplink Shared Channel

# 5 I<sub>ur</sub> Data Transport for Common Transport Channel Data Streams

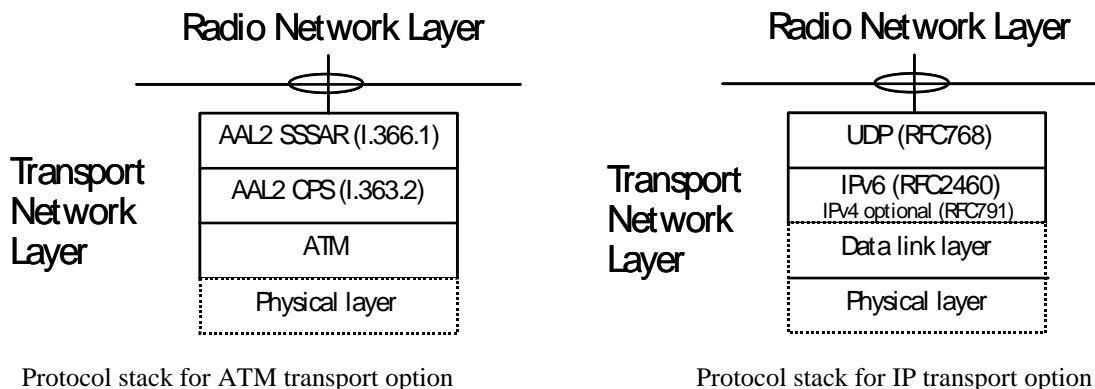
## 5.1 Introduction

This clause specifies the transport layers that support Common Channels (FACH, RACH, ~~CPCH [FDD]~~, DSCH, HS-DSCH, USCH [TDD]) I<sub>ur</sub> data streams.

There are two options for the transport layer of the Common Channels data streams in I<sub>ur</sub> and I<sub>ub</sub>:

- 1) ATM based Transport (ATM transport option)
- 2) IP based Transport (IP transport option)

The following figure shows the protocol stacks of the two options.



**Figure 1: Transport network layer for DCH data streams over I<sub>ur</sub> and I<sub>ub</sub> interfaces**

## 5.2 ATM Transport Option

ATM [1], AAL type 2 (ITU-T Recommendations I.363.2 [2] and I.366.1 [3]) is used as the standard transport layer for RACH, ~~CPCH [FDD]~~, FACH, USCH [TDD], DSCH and HS-DSCH I<sub>ur</sub> data streams.

These AAL2 connections are established via the transport signalling protocol described in clause 5.

Figure 1 shows the protocol stack for the transport of RACH, ~~CPCH [FDD]~~, FACH, USCH [TDD], DSCH and HS-DSCH I<sub>ur</sub> data streams using the ATM Transport Option. Service Specific Segmentation and Re-assembly (SSSAR) is used for the segmentation and re-assembly of AAL2 SDUs (i.e. SSSAR is only considered from ITU-T Recommendation I.366.1 [3]).

## 5.3 IP Option

UDP [18] over IP shall be used as the transport for DCH data streams on I<sub>ub</sub> and I<sub>ur</sub> interfaces. The data link layer is as specified in subclause 4.2.

An IP UTRAN Node shall support IPv6 [16]. The support of IPv4 [17] is optional.

Note: This does not preclude single implementation of IPv4.

IP dual stack support is recommended for the potential transition period from IPv4 to IPv6 in the transport network.

The transport bearer is identified by the UDP port number and the IP address (source UDP port number, destination UDP port number, source IP address, destination IP address).

IP Differentiated Services code point marking [18] shall be supported. The mapping between traffic categories and Diffserv code points shall be configurable by O&M. Traffic categories are implementation-specific and may be determined from the application parameters.



## CHANGE REQUEST

# 25.425 CR 094 # rev - # Current version: 5.7.0 #

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**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	# Feature Cleanup: Removal of CPCH		
<b>Source:</b>	# RAN3		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 19/04/2005
<b>Category:</b>	# <b>C</b>	<b>Release:</b>	# Rel-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>Ph2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6) <b>Rel-7</b> (Release 7)

<b>Reason for change:</b>	# At RAN Plenary #27 it was decided to remove the feature: CPCH from this version of protocol.
<b>Summary of change:</b>	# CPCH is removed from the specification.
	<b>Isolated Impact Analysis</b> Feature removed: CPCH  Isolated impact statement: Feature is removed, UE implementations are not affected. Would affect UTRAN implementations supporting the removed functionality.
<b>Consequences if not approved:</b>	# The decision taken at RAN Plenary #27 to remove this feature is violated

<b>Clauses affected:</b>	# 3.1, 3.3, 4.1.1, 5, 5.1.1, 6.2.1,						
<b>Other specs</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> </table> Other core specifications	Y	N	X		#	25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.420, 25.423, 25.424, 25.430, 25.433, 25.434, 25.435
Y	N						
X							
<b>affected:</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">X</td> <td>Test specifications</td> </tr> <tr> <td style="width: 20px; text-align: center;">X</td> <td>O&amp;M Specifications</td> </tr> </table>	X	Test specifications	X	O&M Specifications		
X	Test specifications						
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**Other comments:** ☹

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## 3 Definitions, symbols and abbreviations

### 3.1 Definitions

For the purposes of the present document, the terms and definitions in [5] and the following apply:

**Common Transport Channel:** it is defined as a transport channel that is shared by several users i.e. DSCH, USCH [TDD], ~~CPCH [FDD]~~, RACH, FACH

**Transport Connection:** service provided by the transport layer and used by Frame Protocol for the delivery of FP PDU

### 3.2 Symbols

No special symbols are defined in the present document.

### 3.3 Abbreviations

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

AAL2	ATM Adaptation Layer type 2
ATM	Asynchronous Transfer Mode
CFN	Connection Frame Number
CmCH	Common Transport Channel
<del>CPCH</del>	<del>Common Packet Channel</del>
C-RNC	Controlling Radio Network Controller
CRC	Cyclic Redundancy Checksum
DCH	Dedicated Transport Channel
DL	Downlink
D-RNTI	Drift RNTI
DSCH	Downlink Shared Channel
FACH	Forward Access Channel
FP	Frame Protocol
FT	Frame Type
HS-DSCH	High Speed Downlink Shared Channel
RACH	Random Access Channel
RNC	Radio Network Controller
RNTI	Radio Network Temporary Identity
SRNC	Serving Radio Network Controller
S-RNTI	Serving RNTI
SSCS	Service Specific Convergence Sublayer
TB	Transport Block
TBS	Transport Block Set
TFI	Transport Format Indicator
ToA	Time of Arrival
TTI	Transmission Time Interval
UE	User Equipment
UL	Uplink
U-RNTI	UTRAN RNTI
USCH	Uplink Shared Channel

## 4.1 Common Transport Channel Data Streams User Plane Protocol Services

This subclause describes the services that the User Plane Protocols provide such as data transfer, flow control.

### 4.1.1 RACH/~~CPCH[FDD]~~ Data Streams User Plane Protocol Services

RACH/~~CPCH[FDD]~~ frame protocol provides the following services:

- Transport of MAC-c/sh SDUs from the DRNC to the SRNC for RACH/~~CPCH[FDD]~~ common transport channels.

## 5 Common Transport Channel Data Streams User Plane Procedures

This clause specifies the user plane procedures for Common Transport Channels data streams. Typical related scenarios at Iur interface should be described.

For the user plane of the radio network layer there are five Common Transport Channel frame handling protocols:

1. Random Access Channel/Common Packet Channel [FDD] Frame Protocol (RACH/CPCH[FDD] FP) for transport of Iur data streams carried on RACH/CPCH[FDD] on the Uu-interface.
2. Forward Access Channel Frame Protocol (FACH FP) for transport of Iur data streams carried on FACH on the Uu-interface.
3. Downlink Shared Channel Frame Protocol (DSCH FP) for transport of Iur data streams carried on DSCH on the Uu-interface.
4. Uplink Shared Channel Frame Protocol ([TDD- USCH] FP) for transport of Iur data streams carried on USCH on the Uu-interface.
5. High Speed Downlink Shared Channel Frame Protocol (HS-DSCH FP) for transport of Iur data streams carried on HS-DSCH on the Uu-interface.

### 5.1 Data Transfer

#### 5.1.1 RACH/CPCH[FDD] Data Transfer

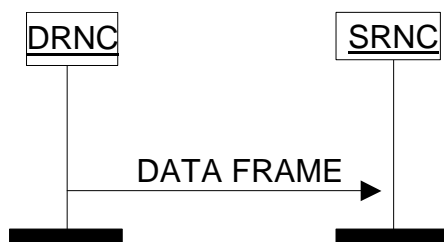


Figure 1: RACH/CPCH[FDD] Data Transfer procedure

Data received on the RACH/CPCH[FDD] transport channel is transmitted from the DRNC to the SRNC using RACH/CPCH[FDD] DATA FRAMES. The data is protected by a mandatory payload CRC. Multiple MAC-c/sh SDUs of same length may be transmitted in the same RACH/CPCH[FDD] DATA FRAME.

## 6.2.1 RACH/CPCH[FDD] Channels

RACH/CPCH[FDD] is a unidirectional transport channel. Its data stream corresponds to the data stream of one specific UE. The used transport bearer for the transport of FACH/RACH or FACH/CPCH[FDD] is bi-directional.

The RACH/CPCH[FDD]/FACH FP does not facilitate multiplexing of data streams from different UEs onto the same data frame, but does allow multiple UEs to share the same transport bearer.

The RACH DATA FRAME structure is defined as common for FDD and TDD with conditional fields, and CPCH[FDD] DATA FRAME structure is defined as common for FDD only.

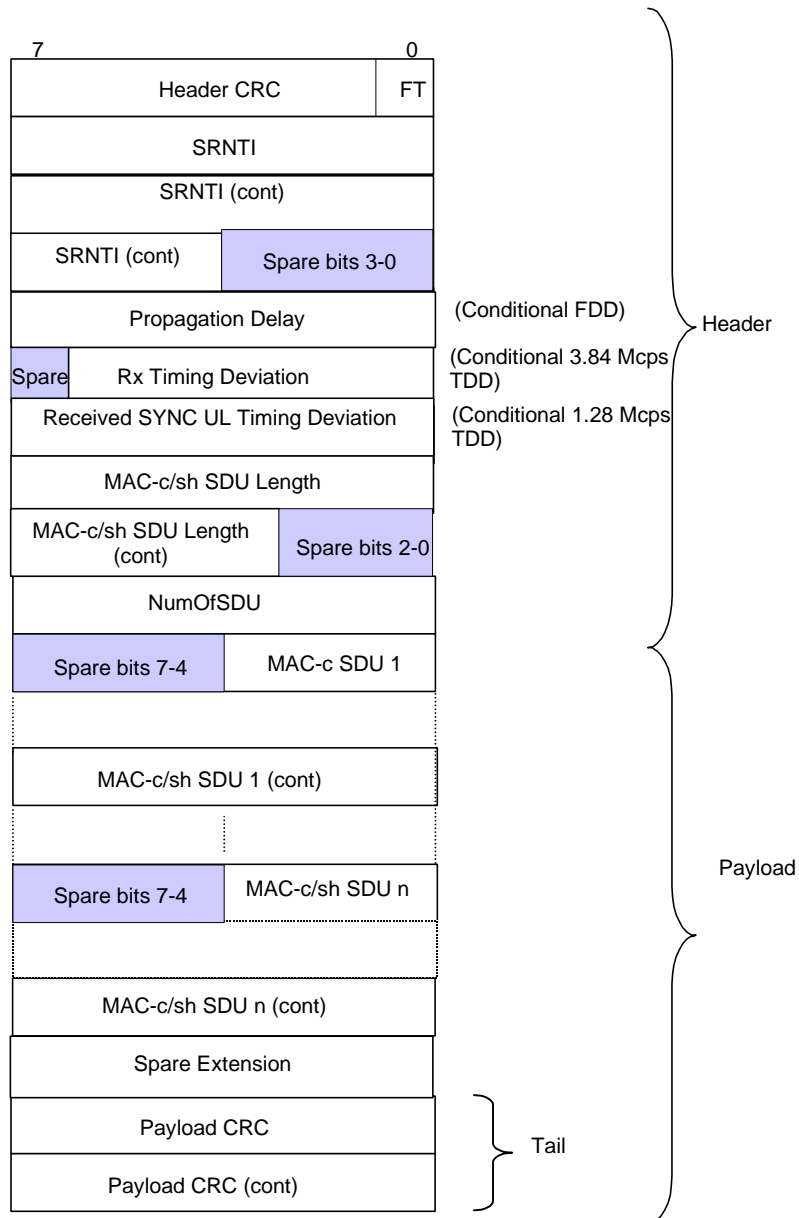


Figure 9: RACH/CPCH[FDD] DATA FRAME structure

Propagation delay is a conditional Information Element which is only present when the Cell supporting the RACH/CPCH[FDD] Transport Channel is a FDD Cell.

Rx Timing Deviation is a conditional Information Element which is only present when the Cell supporting the RACH Transport Channel is a 3.84 Mcps TDD Cell.

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Received SYNC UL Timing Deviation is a conditional Information Element which is only present when the Cell supporting the RACH Transport Channel is a 1.28 Mcps TDD Cell.

## CHANGE REQUEST

# 25.425 CR 095 # rev - # Current version: 6.1.0 #

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**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	# Feature Cleanup: Removal of CPCH		
<b>Source:</b>	# Ericsson		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 19/04/2005
<b>Category:</b>	# <b>C</b>	<b>Release:</b>	# Rel-6
	<p>Use <u>one</u> of the following categories:</p> <p><b>F</b> (correction)</p> <p><b>A</b> (corresponds to a correction in an earlier release)</p> <p><b>B</b> (addition of feature),</p> <p><b>C</b> (functional modification of feature)</p> <p><b>D</b> (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a>.</p>		<p>Use <u>one</u> of the following releases:</p> <p>Ph2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>Rel-4 (Release 4)</p> <p>Rel-5 (Release 5)</p> <p>Rel-6 (Release 6)</p> <p>Rel-7 (Release 7)</p>

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Y	N										
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### 5.1 Data Transfer

#### 5.1.1 RACH/~~CPCH[FDD]~~ Data Transfer

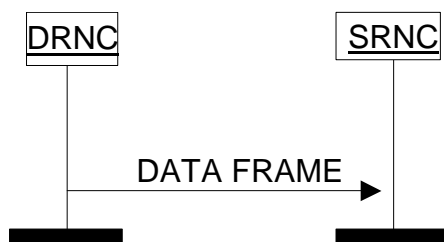


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## 6.2.1 RACH/CPCH[FDD] Channels

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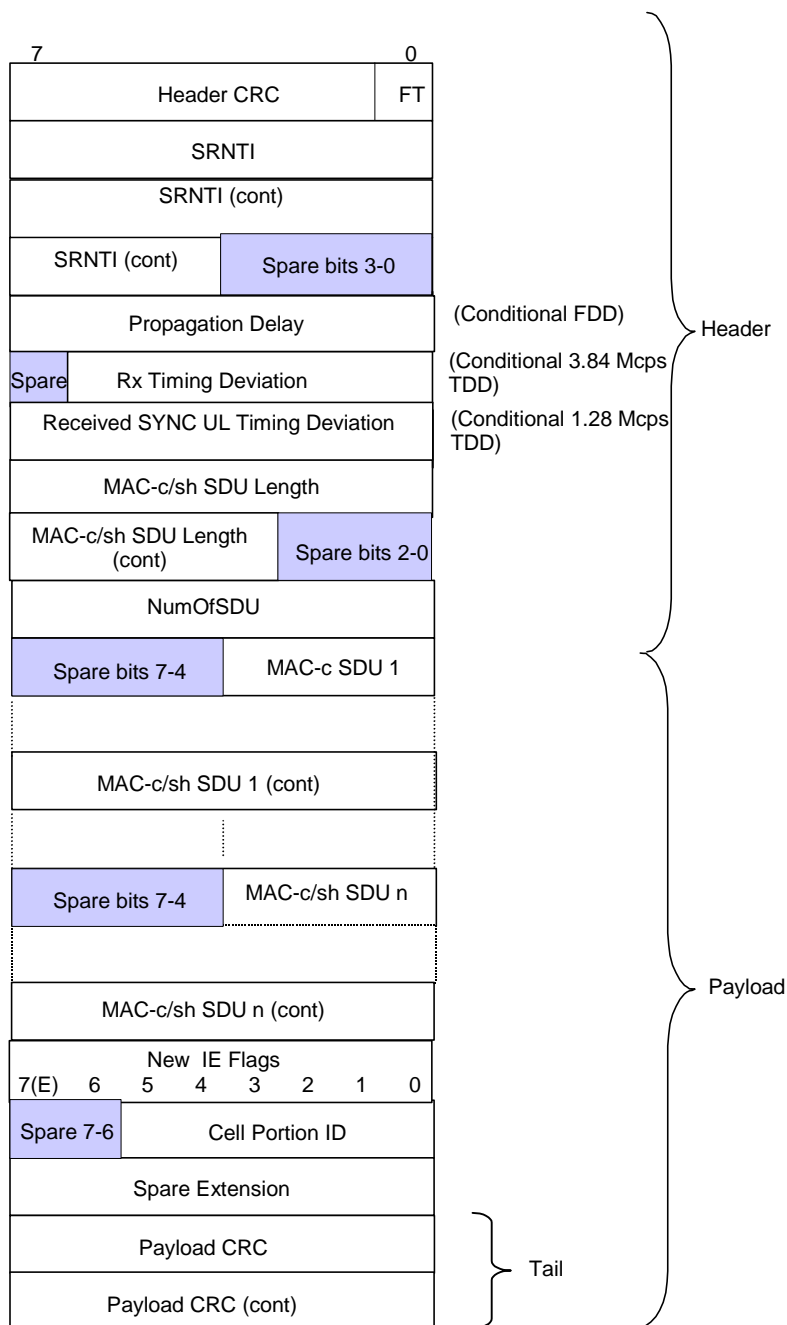


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Received SYNC UL Timing Deviation is a conditional Information Element which is only present when the Cell supporting the RACH Transport Channel is a 1.28 Mcps TDD Cell.

[FDD- Bit 0 of New IE Flags in RACH DATA FRAME indicates if the 1<sup>st</sup> byte (bits 0-5) following the *New IE Flags* IE contains a valid Cell Portion ID (1) or not (0).]

[FDD - Field length of *Spare Extension* IE in RACH DATA FRAME is 0-30 octets.]

CR-Form-v7.1

## CHANGE REQUEST

# 25.430 CR 060 # rev - # Current version: 5.4.0 #

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**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	# Feature Cleanup: Removal of CPCH		
<b>Source:</b>	# RAN3		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 19/04/2005
<b>Category:</b>	# <b>C</b>	<b>Release:</b>	# Rel-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)

<b>Reason for change:</b>	# At RAN Plenary #27 it was decided to remove the feature: CPCH from this version of protocol.
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	<b>Isolated Impact Analysis</b> Feature removed: CPCH  Isolated impact statement: Feature is removed, UE implementations are not affected. Would affect UTRAN implementations supporting the removed functionality.
<b>Consequences if not approved:</b>	# The decision taken at RAN Plenary #27 to remove this feature is violated

<b>Clauses affected:</b>	# 3.2, 4.4.4, 4.5.1, 5.2.5, 6.1, 6.2.2, 6.2.3.6, 6.2.4.1, 7,										
<b>Other specs</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td></td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications	Y	N	X			X		X	#	25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.420, 25.423, 25.424, 25.425, 25.433, 25.434, 25.435
Y	N										
X											
	X										
	X										
<b>affected:</b>											

**Other comments:** ☹

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

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>.

Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ☹ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> 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

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

AAL2	ATM Adaptation Layer type 2
AAL5	ATM Adaptation Layer type 5
AICH	Acquisition Indication Channel
ALCAP	Access Link Control Application Part
<del>AP-AICH</del>	<del>Access Preamble Acquisition Indication Channel</del>
ATM	Asynchronous Transfer Mode
BCH	Broadcast Channel
BCCH	Broadcast Control Channel
CCH	Control Channel
<del>CD/CA-ICH</del>	<del>Collision Detection/Channel Assignment Indication Channel</del>
<del>CPCH</del>	<del>Common Packet Channel</del>
CPCId	Common Physical Channel Identifier
CPICH	Common Pilot Channel
<del>CSICH</del>	<del>Common Packet Channel Status Indication Channel</del>
CTCId	Common Transport Channel Identifier
CRNC	Controlling Radio Network Controller
DCH	Dedicated Transport Channel
DPCCH	Dedicated Physical Control Channel
DPCH	Dedicated Physical Channel
DRNC	Drift Radio Network Controller
DSCH	Down-link Shared Channel
FACH	Forward Access Channel
FAUSCH	Fast Up-link Signalling Channel
FDD	Frequency Division Duplex
FP	Frame Protocol
HS-DSCH	High Speed Downlink Shared Channel
IP	Internet Protocol
NBAP	Node B Application Part
O&M	Operation and Maintenance
PICH	Page Indication Channel
PCCH	Paging Control Channel
PCCPCH	Primary Common Control Physical Channel
<del>PCPCH</del>	<del>Physical Common Packet Channel</del>
PCPICH	Primary Common Pilot Channel
PCH	Paging Channel
PDSCH	Physical Downlink Shared Channel
PRACH	Physical Random Access Channel
PUSCH	Physical Uplink Shared Channel
RACH	Random Access Channel
RNC	Radio Network Controller
RNS	Radio Network Subsystem
SCCP	Signalling Connection Control Part
SCH	Synchronization Channel
SCCPCH	Secondary Common Control Physical Channel
SCPICH	Secondary Common Pilot Channel
SCTP	Stream Control Transmission Protocol
SRNC	Serving Radio Network Controller
SSCF-UNI	Service Specific Co-ordination Function - User Network Interface
SSCOP	Service Specific Connection Oriented Protocol
TDD	Time Division Duplex
UE	User Equipment
UC-ID	UTRAN Cell Identifier
UDP	User Datagram Protocol
UMTS	Universal Mobile Telecommunication System
USCH	Up-link Shared Channel
UTRAN	UMTS Terrestrial Radio Access Network

#### 4.4.4 ~~Iub-CPCH data stream [FDD]~~[Void](#)

~~The Iub interface provides the means for transport of uplink CPCH transport frames between Node B and RNC.~~[Void](#)

## 4.5.1 Mapping of Iub data streams

**DCH** One Iub DCH data stream is carried on one transport bearer. For each DCH data stream a transport bearer must be established over Iub, except in the case of coordinated DCHs in which case a set of coordinated DCHs are multiplexed onto the same transport bearer.

~~**[FDD - CPCH]** One Iub CPCH data stream is carried on one transport bearer. For each CPCH in a cell, an Iub CPCH data stream must be established over the Iub interface.]~~

**RACH** One Iub RACH data stream is carried on one transport bearer. For each RACH in a cell, a transport bearer must be established over the Iub interface.

**FACH** One Iub FACH data stream is carried on one transport bearer. For each FACH in a cell, a transport bearer must be established over the Iub Interface.

**DSCH** One Iub DSCH data stream is carried on one transport bearer. For each DSCH data stream, a transport bearer must be established over the Iub interface.

**HS-DSCH** One Iub HS-DSCH data stream is carried on one transport bearer. For each HS-DSCH data stream, a transport bearer must be established over the Iub interface.

**[FDD - TFCI2]** One Iub TFCI2 data stream is carried on one transport bearer.]

**[TDD - USCH]** One Iub USCH data stream is carried on one transport bearer. For each USCH data stream, a transport bearer must be established over the Iub interface.]

**PCH** One Iub PCH data stream is carried on one transport bearer.

## 5.2.5 Traffic management of Common Channels

The common channels need to be controlled from the RNC. This is typically the control of the RACH, ~~CPCH (FDD)~~ and FACH channels, the information that is broadcast on the Broadcast control channel, and the control and request for sending information on the paging channels.

## 6.1 Overview

The model described in figure 2 shows the Node B as seen from the controlling RNC. The model includes:

- The logical resources provided by Node B to UTRAN (via its Controlling RNC) - depicted as "cells" which include the physical channel resources DPCH, PDSCH, and PUSCH;
- The dedicated channels which have been established on Node B;
- The common transport channels that Node B provides to the RNC.

The procedures for controlling the connections between radio links and Iub DCH data ports are sent from the RNC to the Node B via the Communication Control Ports.

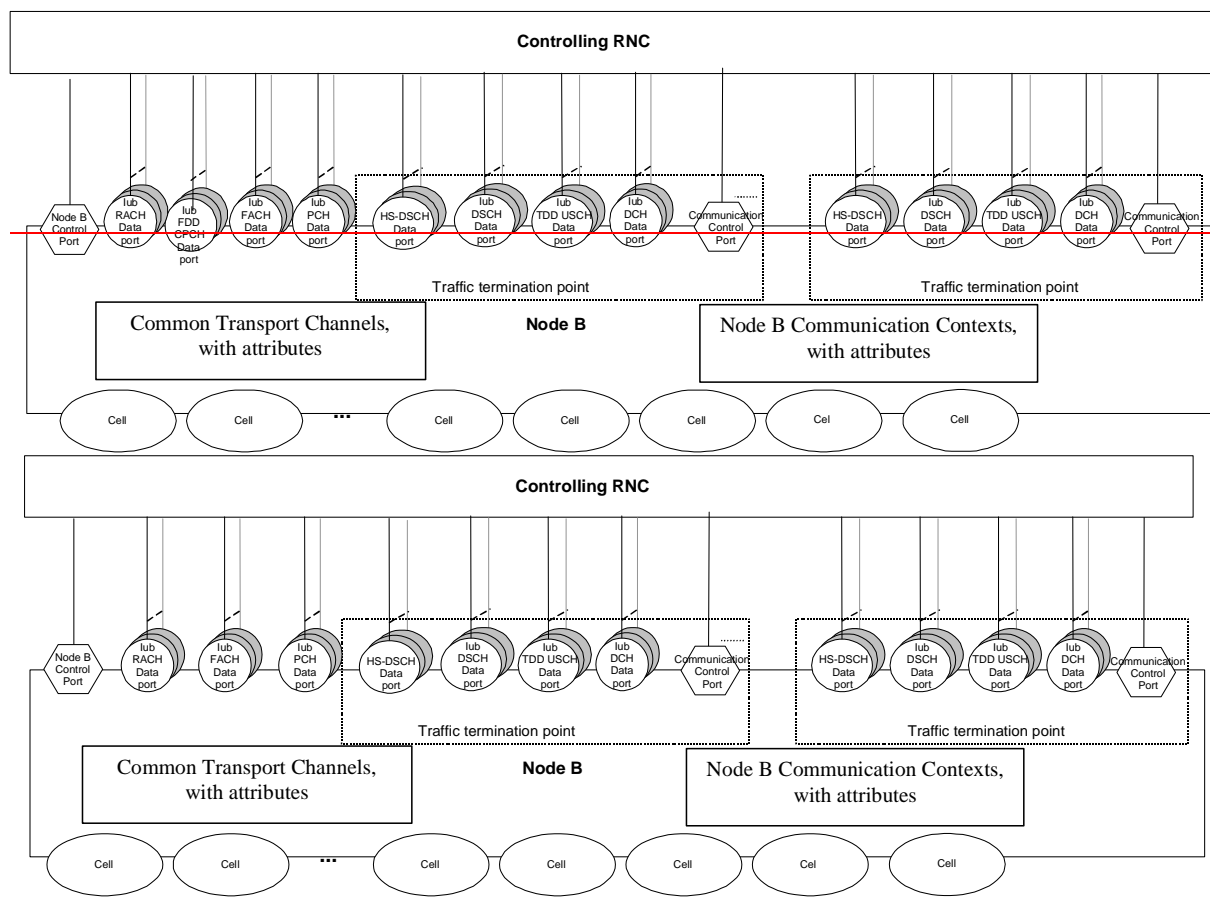


Figure 2: Logical Model of Node B

## 6.2.2 Common Transport Channels

Common Transport Channels are defined in [9]. A Common Transport Channel is configured in the Node B, on request of the CRNC.

The BCH is carried directly on the Node B control port using NBAP procedures. This Common Channel will not be mapped to an individual data port.

The RACH has an associated Iub RACH Data Port and the FACH has an associated Iub FACH Data Port.

~~[FDD - The CPCH has an associated Iub CPCH Data Port.]~~

The Iub DSCH data port is associated to one DSCH and to one Node B Communication Context.

[TDD - the Iub USCH data port is associated to one USCH and to one Node B Communication Context.]

The attributes of a Common transport channel shall include (not exhaustive):

- Type (RACH, ~~CPCH [FDD]~~, FACH, DSCH, USCH [TDD], PCH).
- Associated Iub RACH Data Port for a RACH, ~~Iub CPCH Data Port for a CPCH [FDD]~~, Iub FACH Data Port for a FACH, Iub PCH Data Port for the PCH.
- [FDD - List of associated Iub FDD DSCH Data ports for the DSCH.]
- Physical parameters.

[TDD - The DSCHs used by one UE are multiplexed to one or several CCTrCHs where each CCTrCH is mapped to a set of PDSCH ("PDSCH Set"). These PDSCH Sets are included in the Common Transport Channel data base. The same applies for the USCHs and the corresponding PUSCH Sets.]

### 6.2.3.6 ~~Iub-CPCH Data Port [FDD]~~Void

~~An Iub-CPCH Data Port represents a user plane bearer carrying one Iub-CPCH Data Stream between the Node B and the RNC. There is one CPCH Data Port for each CPCH channel of Node B.~~Void.

### 6.2.4.1 Common Resources

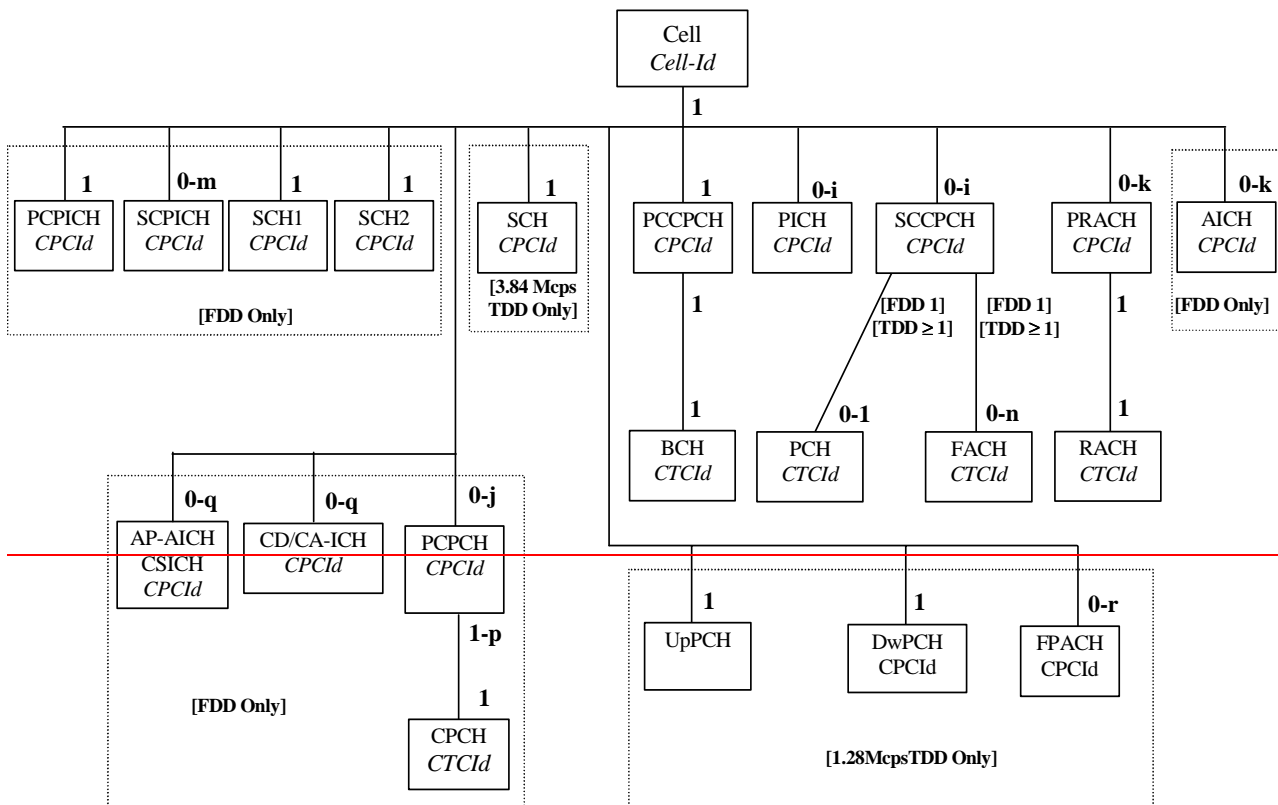
The CRNC manages logical radio network resources in Node B and needs to use both common and dedicated resources in a Node B to run a radio network. Therefore, it is the CRNC that orders the Node B to configure, reconfigure and delete these resources. However, if the equipment in Node B cannot fully support the configuration that the CRNC requests, or the equipment breaks down, then Node B can indicate the availability of the common resources (i.e. both downgrade and upgrade).

The common resources are the Cell, the common physical channels and the common transport channels.

In Node B these common resources have an operational state, that indicates whether they are operational or not, i.e. whether they can carry traffic or not.

Figure 3 shows the common resources that a CRNC is managing in a Node B to be able to run a radio network.





The number or range above each box indicates how many of the channels named in that box can exist as "children" under one instant of a "parent" box to which the "child" box is connected.

The number or range beneath each box indicates how many of the channels named in that box can exist as "parent" boxes for one instant of a "child" channel to which the "parent" box is connected.

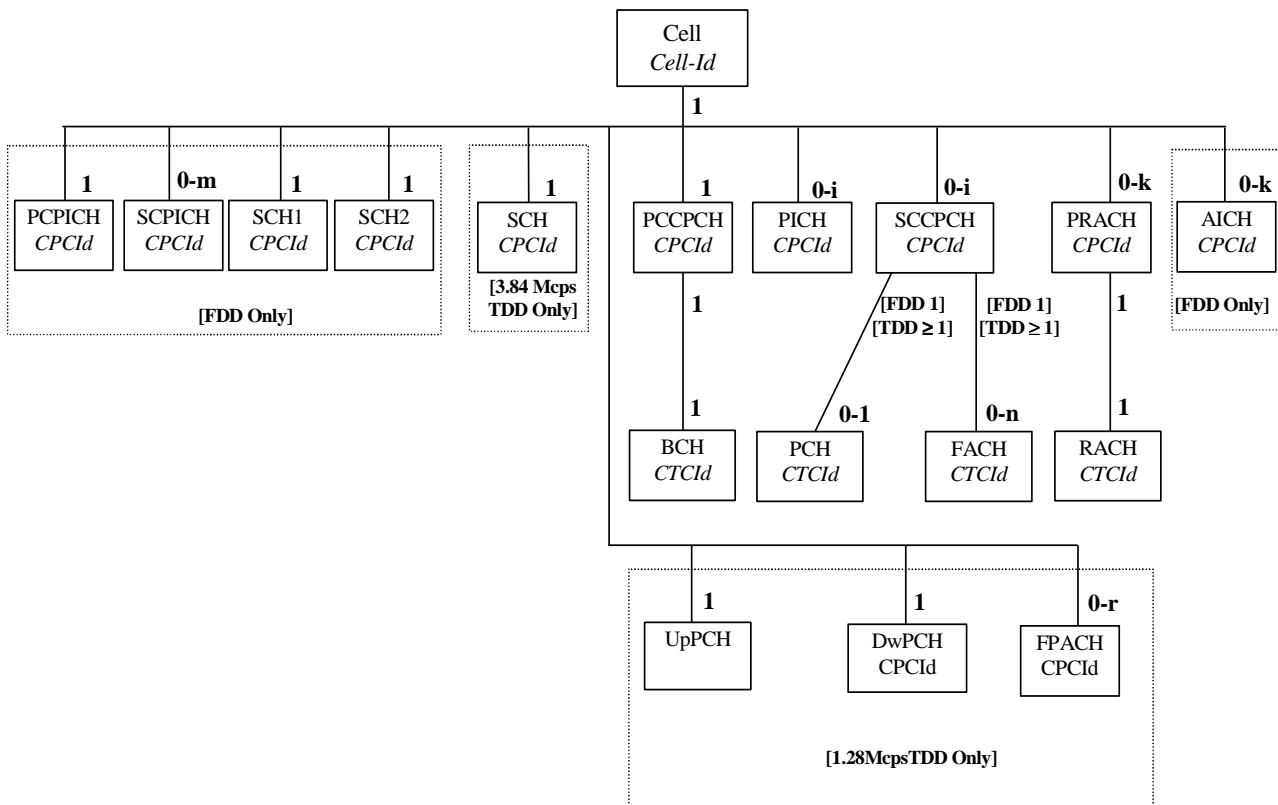
*CPCId* = Common Physical Channel Identifier

*CTCId* = Common Transport Channel Identifier

[TDD - The number of PICH = the number of PCH]

[FDD - The number of AICH = the number of PRACH]

[TDD - PCH and FACHs can be mapped on one or more SCCPCH]



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*CPCId* = Common Physical Channel Identifier

*CTCId* = Common Transport Channel Identifier

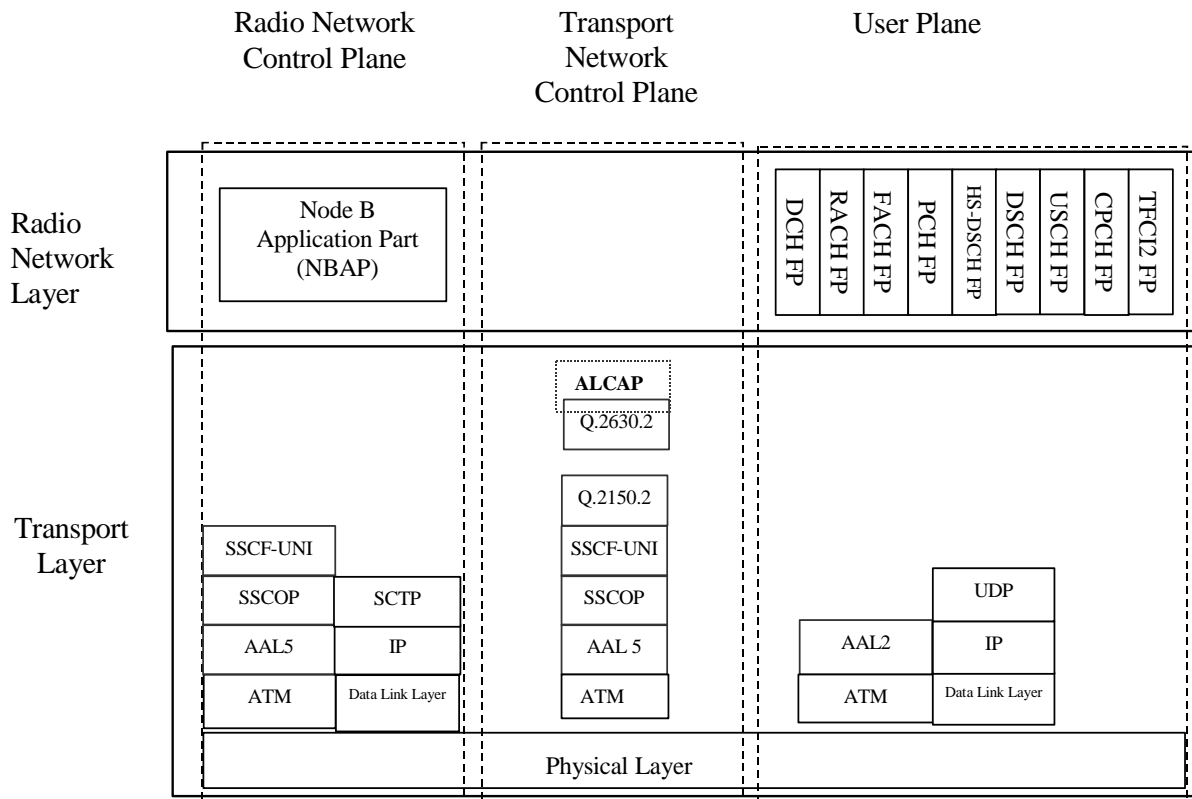
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[TDD - PCH and FACHs can be mapped on one or more SCCPCH]

**Figure 3: Common resources in a Node B that are managed by the CRNC**

# 7 Iub Interface Protocol Structure



**Figure 7: Iub Interface Protocol Structure.**

The Iub interface protocol architecture consists of two functional layers:

1. Radio Network Layer, defines procedures related to the operation of Node B. The radio network layer consists of a radio network control plane and a radio network user plane.
2. Transport Layer, defines procedures for establishing physical connections between Node B and the RNC.

There shall be one dedicated AAL2 or UDP/IP transport bearer for each RACH, and one for each FACH transport channel, ~~and one for each CPCH [FDD].~~

## CHANGE REQUEST

# 25.430 CR 061 # rev - # Current version: 6.4.0 #

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

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	# Feature Cleanup: Removal of CPCH		
<b>Source:</b>	# RAN3		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 19/04/2005
<b>Category:</b>	# <b>C</b>	<b>Release:</b>	# Rel-6
	<p>Use <u>one</u> of the following categories:</p> <p><b>F</b> (correction)</p> <p><b>A</b> (corresponds to a correction in an earlier release)</p> <p><b>B</b> (addition of feature),</p> <p><b>C</b> (functional modification of feature)</p> <p><b>D</b> (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a>.</p>		<p>Use <u>one</u> of the following releases:</p> <p>Ph2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>Rel-4 (Release 4)</p> <p>Rel-5 (Release 5)</p> <p>Rel-6 (Release 6)</p> <p>Rel-7 (Release 7)</p>

<b>Reason for change:</b>	# At RAN Plenary #27 it was decided to remove the feature: CPCH from this version of protocol.
<b>Summary of change:</b>	# CPCH is removed from the specification.
	<p><b>Isolated Impact Analysis</b></p> <p>Feature removed: CPCH</p> <p>Isolated impact statement: Feature is removed, UE implementations are not affected. Would affect UTRAN implementations supporting the removed functionality.</p>
<b>Consequences if not approved:</b>	# The decision taken at RAN Plenary #27 to remove this feature is violated

<b>Clauses affected:</b>	# 3.2, 4.4.4, 4.5.1, 5.2.5, 6.1, 6.2.2, 6.2.3.6, 6.2.4.1, 7,										
<b>Other specs</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td></td> <td style="text-align: center;">X</td> </tr> </table>	Y	N	X			X		X	Other core specifications	# 25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.420, 25.423, 25.424, 25.425, 25.433, 25.434, 25.435
Y	N										
X											
	X										
	X										
<b>affected:</b>		Test specifications									
		O&M Specifications									

**Other comments:** ☹

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

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

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<del>AP-AICH</del>	<del>Access Preamble Acquisition Indication Channel</del>
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BCH	Broadcast Channel
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<del>CPCH</del>	<del>Common Packet Channel</del>
CPCId	Common Physical Channel Identifier
CPICH	Common Pilot Channel
<del>CSICH</del>	<del>Common Packet Channel Status Indication Channel</del>
CTCId	Common Transport Channel Identifier
CRNC	Controlling Radio Network Controller
DCH	Dedicated Transport Channel
DPCCH	Dedicated Physical Control Channel
DPCH	Dedicated Physical Channel
DRNC	Drift Radio Network Controller
DSCH	Down-link Shared Channel
E-DCH	Enhanced Dedicated Channel
FACH	Forward Access Channel
FAUSCH	Fast Up-link Signalling Channel
FDD	Frequency Division Duplex
F-DPCH	Fractional DPCH
FP	Frame Protocol
HARQ	Hybrid Automatic Repeat Request
HS-DSCH	High Speed Downlink Shared Channel
IP	Internet Protocol
MICH	MBMS notification Indicator Channel
NBAP	Node B Application Part
O&M	Operation and Maintenance
PICH	Page Indication Channel
PCCH	Paging Control Channel
PCCPCH	Primary Common Control Physical Channel
<del>PCPCH</del>	<del>Physical Common Packet Channel</del>
PCPICH	Primary Common Pilot Channel
PCH	Paging Channel
PDSCH	Physical Downlink Shared Channel
PRACH	Physical Random Access Channel
PUSCH	Physical Uplink Shared Channel
RACH	Random Access Channel
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RNS	Radio Network Subsystem
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SCH	Synchronization Channel
SCCPCH	Secondary Common Control Physical Channel
SCPICH	Secondary Common Pilot Channel
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SRNC	Serving Radio Network Controller
SSCF-UNI	Service Specific Co-ordination Function - User Network Interface
SSCOP	Service Specific Connection Oriented Protocol
TDD	Time Division Duplex
UE	User Equipment
UC-ID	UTRAN Cell Identifier
UDP	User Datagram Protocol

UMTS	Universal Mobile Telecommunication System
USCH	Up-link Shared Channel
UTRAN	UMTS Terrestrial Radio Access Network

#### 4.4.4 ~~Iub-CPCH data stream [FDD]~~Void

~~The Iub interface provides the means for transport of uplink CPCH transport frames between Node B and RNC~~Void.



## 4.5.1 Mapping of Iub data streams

**DCH** One Iub DCH data stream is carried on one transport bearer. For each DCH data stream a transport bearer must be established over Iub, except in the case of coordinated DCHs in which case a set of coordinated DCHs are multiplexed onto the same transport bearer.

~~**[FDD - CPCH]** One Iub CPCH data stream is carried on one transport bearer. For each CPCH in a cell, an Iub CPCH data stream must be established over the Iub interface.]~~

**RACH** One Iub RACH data stream is carried on one transport bearer. For each RACH in a cell, a transport bearer must be established over the Iub interface.

**FACH** One Iub FACH data stream is carried on one transport bearer. For each FACH in a cell, a transport bearer must be established over the Iub Interface.

**DSCH** One Iub DSCH data stream is carried on one transport bearer. For each DSCH data stream, a transport bearer must be established over the Iub interface.

**HS-DSCH** One Iub HS-DSCH data stream is carried on one transport bearer. For each HS-DSCH data stream, a transport bearer must be established over the Iub interface.

**[FDD - TFCI2]** One Iub TFCI2 data stream is carried on one transport bearer.]

**[FDD - E-DCH]** One Iub E-DCH data stream is carried on one transport bearer. For each E-DCH data stream, a transport bearer must be established over the Iub interface.]

**[TDD - USCH]** One Iub USCH data stream is carried on one transport bearer. For each USCH data stream, a transport bearer must be established over the Iub interface.]

**PCH** One Iub PCH data stream is carried on one transport bearer.

## 5.2.5 Traffic management of Common Channels

The common channels need to be controlled from the RNC. This is typically the control of the RACH, ~~CPCH (FDD)~~ and FACH channels, the information that is broadcast on the Broadcast control channel, and the control and request for sending information on the paging channels.

## 6.1 Overview

The model described in figure 2 shows the Node B as seen from the controlling RNC. The model includes:

- The logical resources provided by Node B to UTRAN (via its Controlling RNC) - depicted as "cells" which include the physical channel resources DPCH, [FDD – F-DPCH,] PDSCH, and PUSCH;
- The dedicated channels which have been established on Node B;
- The common transport channels that Node B provides to the RNC.

The procedures for controlling the connections between radio links and Iub DCH data ports are sent from the RNC to the Node B via the Communication Control Ports.

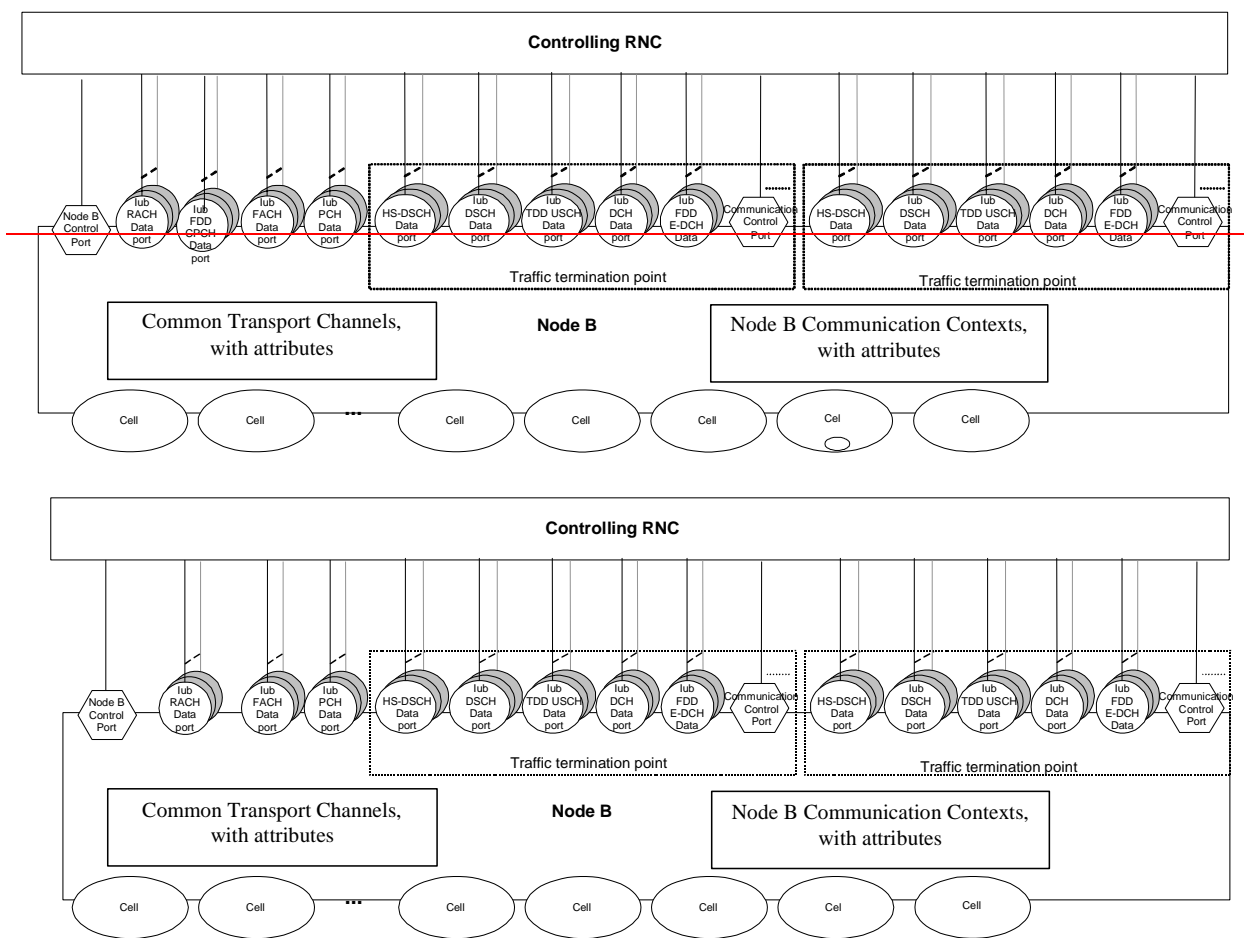


Figure 2: Logical Model of Node B

## 6.2.2 Common Transport Channels

Common Transport Channels are defined in [9]. A Common Transport Channel is configured in the Node B, on request of the CRNC.

The BCH is carried directly on the Node B control port using NBAP procedures. This Common Channel will not be mapped to an individual data port.

The RACH has an associated Iub RACH Data Port and the FACH has an associated Iub FACH Data Port.

~~[FDD - The CPCH has an associated Iub CPCH Data Port.]~~

The Iub DSCH data port is associated to one DSCH and to one Node B Communication Context.

[TDD - the Iub USCH data port is associated to one USCH and to one Node B Communication Context.]

The attributes of a Common transport channel shall include (not exhaustive):

- Type (RACH, ~~CPCH [FDD]~~, FACH, DSCH, USCH [TDD], PCH).
- Associated Iub RACH Data Port for a RACH, ~~Iub CPCH Data Port for a CPCH [FDD]~~, Iub FACH Data Port for a FACH, Iub PCH Data Port for the PCH.
- [FDD - List of associated Iub FDD DSCH Data ports for the DSCH.]
- Physical parameters.

[TDD - The DSCHs used by one UE are multiplexed to one or several CCTrCHs where each CCTrCH is mapped to a set of PDSCH ("PDSCH Set"). These PDSCH Sets are included in the Common Transport Channel data base. The same applies for the USCHs and the corresponding PUSCH Sets.]

### 6.2.3.6 ~~Iub-CPCH Data Port [FDD]~~Void

~~An Iub-CPCH Data Port represents a user plane bearer carrying one Iub-CPCH Data Stream between the Node B and the RNC. There is one CPCH Data Port for each CPCH channel of Node B.~~Void.

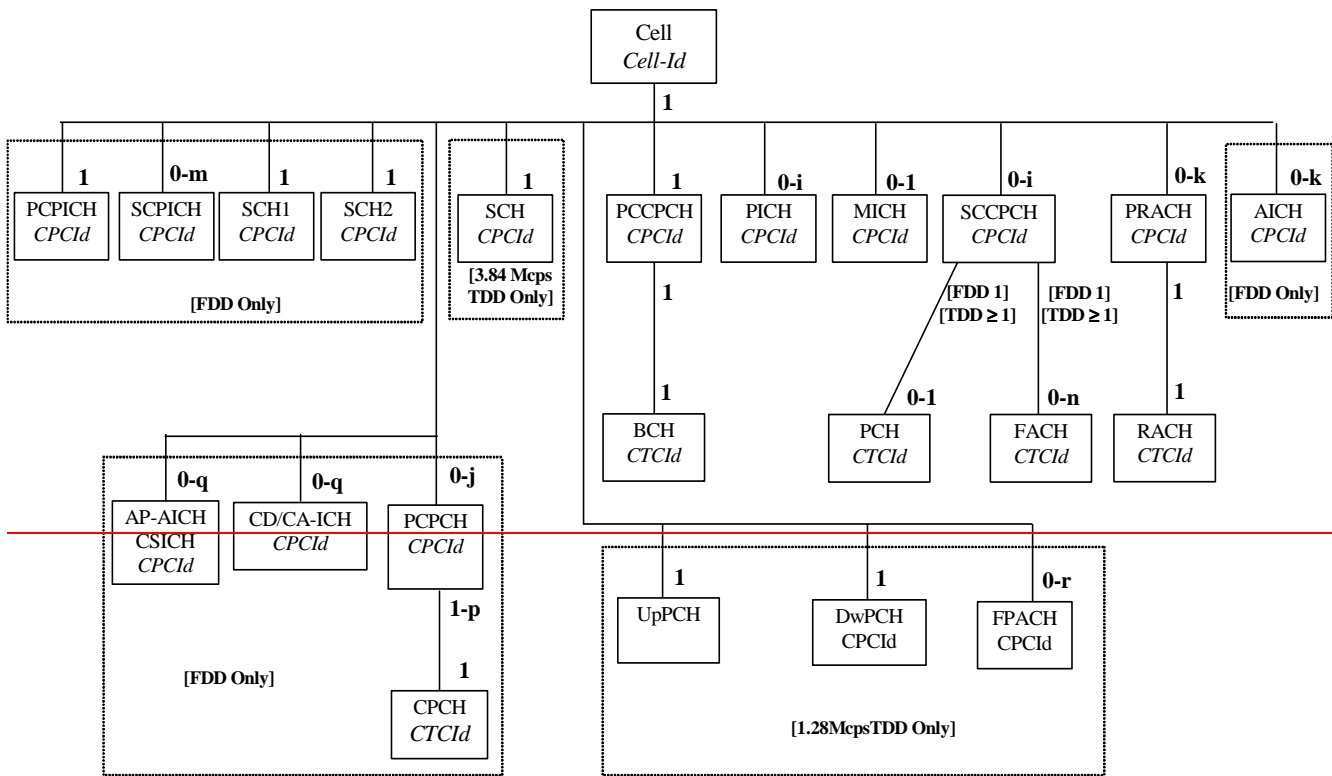
### 6.2.4.1 Common Resources

The CRNC manages logical radio network resources in Node B and needs to use both common and dedicated resources in a Node B to run a radio network. Therefore, it is the CRNC that orders the Node B to configure, reconfigure and delete these resources. However, if the equipment in Node B cannot fully support the configuration that the CRNC requests, or the equipment breaks down, then Node B can indicate the availability of the common resources (i.e. both downgrade and upgrade).

The common resources are the Cell, the common physical channels and the common transport channels.

In Node B these common resources have an operational state, that indicates whether they are operational or not, i.e. whether they can carry traffic or not.

Figure 3 shows the common resources that a CRNC is managing in a Node B to be able to run a radio network.



The number or range above each box indicates how many of the channels named in that box can exist as "children" under one instant of a "parent" box to which the "child" box is connected.

The number or range beneath each box indicates how many of the channels named in that box can exist as "parent" boxes for one instant of a "child" channel to which the "parent" box is connected.

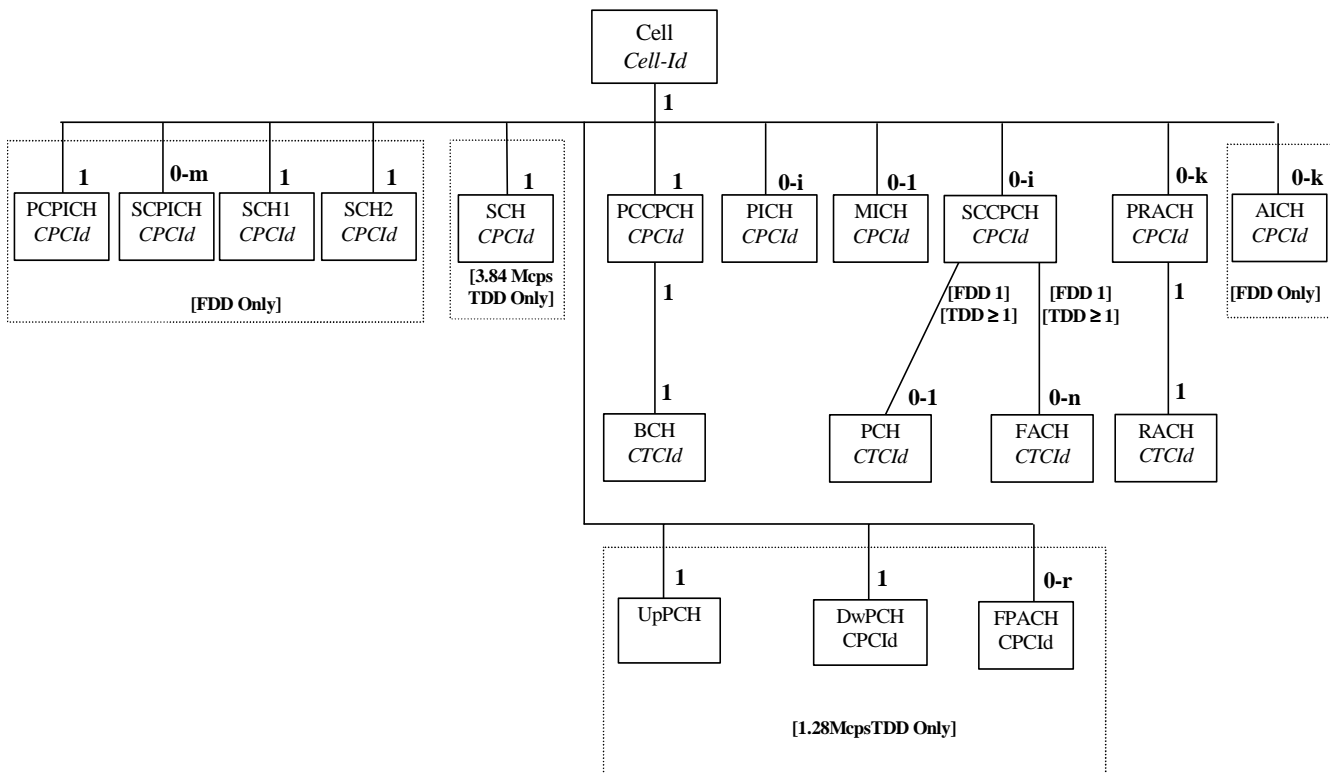
*CPCId* = Common Physical Channel Identifier

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[TDD - The number of PICH = the number of PCH]

[FDD - The number of AICH = the number of PRACH]

[TDD - PCH and FACHs can be mapped on one or more SCCPCH]



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*CTCId* = Common Transport Channel Identifier

[TDD - The number of PICH = the number of PCH]

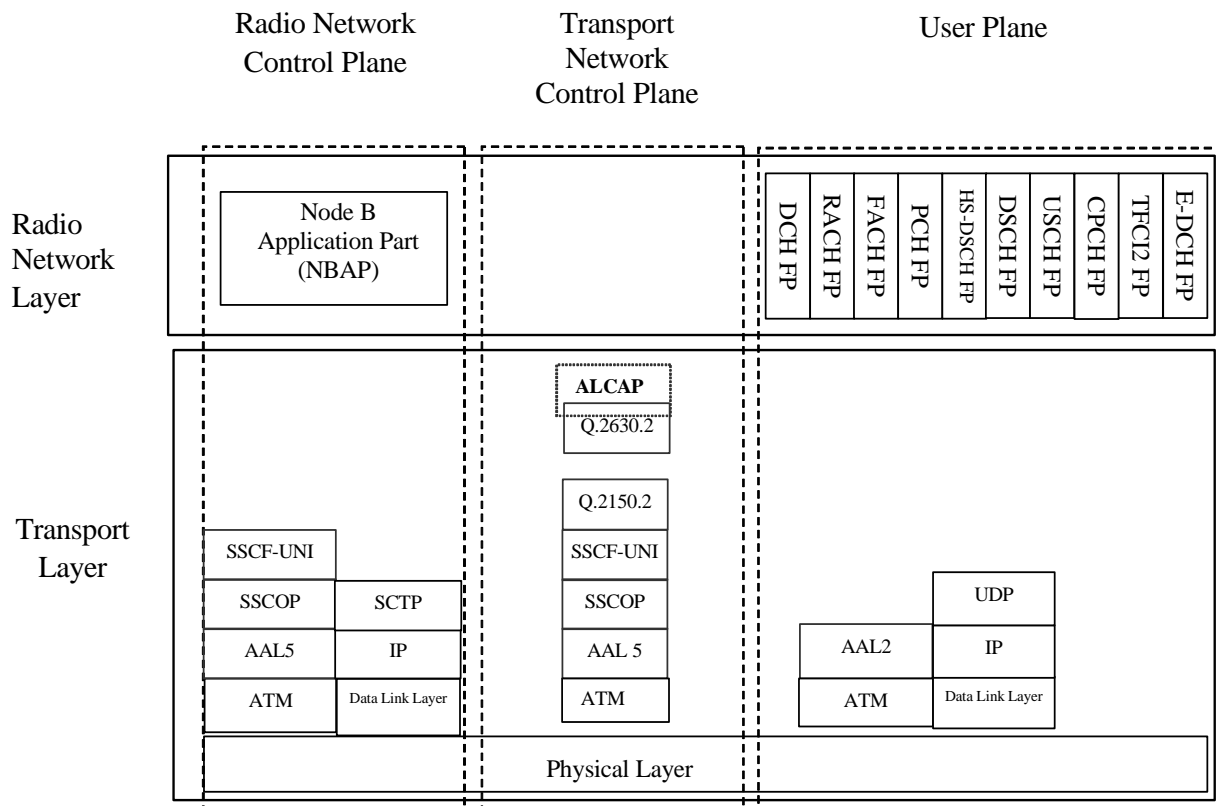
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**Figure 3: Common resources in a Node B that are managed by the CRNC**



# 7 Iub Interface Protocol Structure



**Figure 7: Iub Interface Protocol Structure.**

The Iub interface protocol architecture consists of two functional layers:

1. Radio Network Layer, defines procedures related to the operation of Node B. The radio network layer consists of a radio network control plane and a radio network user plane.
2. Transport Layer, defines procedures for establishing physical connections between Node B and the RNC.

There shall be one dedicated AAL2 or UDP/IP transport bearer for each RACH, and one for each FACH transport channel, ~~and one for each CPCH [FDD].~~

## CHANGE REQUEST

# 25.433 CR 1098 # rev 2 # Current version: 5.12.0 #

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

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	# Feature Cleanup: Removal of CPCH		
<b>Source:</b>	# RAN3		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 12/05/2005
<b>Category:</b>	# C	<b>Release:</b>	# Rel-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>Ph2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6) <b>Rel-7</b> (Release 7)

<b>Reason for change:</b>	# At RAN Plenary #27 it was decided to remove the feature: CPCH from this version of protocol.
<b>Summary of change:</b>	# Rev 2: - Removed criticality EACH for removed elements in RESOURCE STATUS INDICATION + AUDIT RESPONSE. - Changed comment: ignore -> reject for COMMON TRANSPORT CH RECONFIG - Renamed Enum "item" to "value". - Removed "ignore if received" in COMMON MEASUREMENT INIT RESPONSE / REPORT  # Rev 1: Updated to reflect agreements on style: - Tabular format to reflect ASN.1: Choices/NULL kept in Tabular, Sequenceltems/NULL kept in Tabular - Naming of removed IEs (NotUsed-1 etc) harmonized with other specs, and between ASN.1 and tabular (so cross-ref tabular/ASN.1 is easy).  # Rev 0: Removal of CPCH
<b>Consequences if not approved:</b>	# The decision taken at RAN Plenary #27 to remove this feature is violated

**Clauses affected:** # 3.3, 8.2.1.1, 8.2.1.2, 8.2.1.4, 8.2.2.2, 8.2.3.2, 8.2.8.2

			9.1.3.1, 9.1.4, 9.1.6.1, 9.1.17, 9.1.18, 9.1.19, 9.1.21, 9.1.32 9.2.1.6, 9.2.1.9A, 9.2.1.11, 9.2.1.12, 9.2.1.21, 9.2.1.43, 9.2.1.44, 9.2.1.58 9.2.2.1A, 9.2.2.1B, 9.2.2.1C, 9.2.2.1D, 9.2.2.4A, 9.2.2.4B, 9.2.2.4C 9.2.2.20A, 9.2.2.23A, 9.2.2.23B, 9.2.2.23C, 9.2.2.24A										
<b>Other specs</b>	⌘	<table border="1"> <thead> <tr> <th>Y</th> <th>N</th> </tr> </thead> <tbody> <tr> <td>X</td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td></td> <td>X</td> </tr> </tbody> </table>	Y	N	X				X			X	Other core specifications ⌘ 25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.420, 25.423, 25.424, 25.425, 25.430, 25.434, 25.435
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	X												
<b>affected:</b>			Test specifications 34.108, 34.123 O&M Specifications										
<b>Other comments:</b>	⌘												

### How to create CRs using this form:

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

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> 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

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

A-GPS	Assisted GPS
AICH	Acquisition Indicator Channel
ALCAP	Access Link Control Application Part
<del>AP-AICH</del>	<del>Access Preamble Acquisition Indicator Channel</del>
ASN.1	Abstract Syntax Notation One
BCCH	Broadcast Control Channel
CCPCH	Common Control Physical Channel
CFN	Connection Frame Number
CM	Compressed Mode
<del>CPCH</del>	<del>Common Packet Channel</del>
CPICH	Common Pilot Channel
CRNC	Controlling Radio Network Controller
<del>CSICH</del>	<del>CPCH Status Indicator Channel</del>
DCH	Dedicated Channel
DGPS	Differential GPS
DL	Downlink
DPCCH	Dedicated Physical Control Channel
DPCH	Dedicated Physical Channel
DPDCH	Dedicated Physical Data Channel
DSCH	Downlink Shared Channel
FACH	Forward Access Channel
FDD	Frequency Division Duplex
FP	Frame Protocol
GPS	Global Positioning System
HSDPA	High Speed Downlink Packet Access
HS-DSCH	High Speed Downlink Shared Channel
HS-PDSCH	High Speed Physical Downlink Shared Channel
HS-SCCH	High Speed Shared Control Channel
HS-SICH	High Speed Shared Information Channel
IP	Internet Protocol
IPDL	Idle Periods in the DownLink
ISCP	Interference Signal Code Power
L1	Layer 1
L2	Layer 2
MIB	Master Information Block
NBAP	Node B Application Part
O&M	Operation and Maintenance
PCCPCH	Primary Common Control Physical Channel
PCH	Paging Channel
<del>PCPCH</del>	<del>Physical Common Packet Channel</del>
PDSCH	Physical Downlink Shared Channel
PICH	Paging Indication Channel
PUSCH	Physical Uplink Shared Channel
RACH	Random Access Channel
RL	Radio Link
RLS	Radio Link Set
RNC	Radio Network Controller
RRC	Radio Resource Control
SB	Scheduling Block
SCCPCH	Secondary Common Control Physical Channel
SCH	Synchronisation Channel
SCTD	Space Code Transmit Diversity
SIB	System Information Block
SRNC	Serving Radio Network Controller
SSDT	Site Selection Diversity Transmission
STTD	Space Time Transmit Diversity

TDD	Time Division Duplex
TFC	Transport Format Combination
TFCI	Transport Format Combination Indicator
TFCS	Transport Format Combination Set
TFS	Transport Format Set
TPC	Transmit Power Control
TSTD	Time Switched Transmit Diversity
UARFCN	UTRA Absolute Radio Frequency Channel Number
UDP	User Datagram Protocol
UE	User Equipment
UL	Uplink
UMTS	Universal Mobile Telecommunications System
USCH	Uplink Shared Channel
UTRA	Universal Terrestrial Radio Access
UTRAN	Universal Terrestrial Radio Access Network

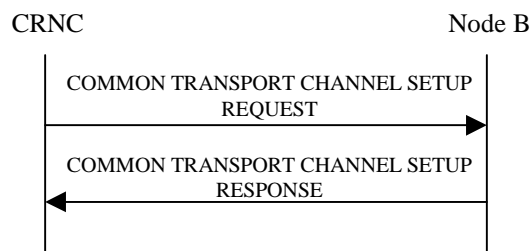
## 8.2 NBAP Common Procedures

### 8.2.1 Common Transport Channel Setup

#### 8.2.1.1 General

This procedure is used for establishing the necessary resources in Node B, regarding Secondary CCPCH, PICH, PRACH, ~~PCPCH [FDD]~~, AICH [FDD], ~~AP\_AICH [FDD], CD/CA-ICH [FDD]~~, FACH, PCH, RACH, ~~and~~ FPACH [1.28Mcps TDD] ~~and CPCH [FDD]~~.

#### 8.2.1.2 Successful Operation



**Figure 1: Common Transport Channel Setup procedure, Successful Operation**

The procedure is initiated with a COMMON TRANSPORT CHANNEL SETUP REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

One message can configure only one of the following combinations:

- [FDD - one Secondary CCPCH, and FACHs, PCH and PICH related to that Secondary CCPCH], or
- [TDD - one CCTrCH consisting of Secondary CCPCHs and FACHs, PCH with the corresponding PICH related to that group of Secondary CCPCHs], or
- one [1.28Mcps TDD - or more] PRACH, one RACH and one AICH [FDD] and one FPACH[1.28Mcps TDD] related to that PRACH.

~~— [FDD - PCPCHs, one CPCH, one AP\_AICH and one CD/CA-ICH related to that group of PCPCHs.]~~

#### Secondary CCPCH:

[FDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Secondary CCPCH* IE, the Node B shall configure and activate the indicated Secondary CCPCH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.]

[TDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Secondary CCPCH* IE, the Node B shall configure and activate the indicated Secondary CCPCH(s) according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.]

[TDD - FACHs and PCH may be mapped onto a CCTrCH which may consist of several Secondary CCPCHs]

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *FACH Parameters* IE, the Node B shall configure and activate the indicated FACH(s) according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *PCH Parameters* IE, the Node B shall configure and activate the concerned PCH and the associated PICH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

[1.28Mcps TDD - If the *PCH Power* IE is included in the *PCH Parameters* IE of the COMMON TRANSPORT CHANNEL SETUP REQUEST, the Node B shall use this value as the power at which the PCH shall be transmitted.]

[1.28Mcps TDD - If the *TSTD Indicator* IE for the S-CCPCH is included and is set to "active" in the COMMON TRANSPORT CHANNEL SETUP REQUEST, the Node B shall activate TSTD diversity for all S-CCPCHs defined in the message that are not beacon channels [19,21]. If the *TSTD Indicator* IE is set to "not active" or *TSTD Indicator* IE is not included for the S-CCPCH in the COMMON TRANSPORT CHANNEL SETUP REQUEST, the Node B shall not activate TSTD diversity for the S-CCPCHs defined in the message.]

[1.28Mcps TDD - If the *TSTD Indicator* IE for the PICH is included and is set to "active" in the COMMON TRANSPORT CHANNEL SETUP REQUEST message, the Node B shall activate TSTD diversity for the PICH if it is not a beacon channel [19,21]. If the *TSTD Indicator* IE is set to "not active" or the *TSTD Indicator* IE is not included for the PICH in the COMMON TRANSPORT CHANNEL SETUP REQUEST message, the Node B shall not activate TSTD diversity for the PICH.]

#### **PRACH:**

When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *PRACH* IE, the Node B shall configure and activate the indicated PRACH and the associated RACH [FDD - and the associated AICH] according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

#### **[1.28Mcps TDD - FPACH]:**

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *FPACH* IE, the Node B shall configure and activate the indicated FPACH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

Where more than one FPACH is defined, the FPACH that Node B should use is defined by the UpPCH signature (SYNC\_UL) code that the UE used. The FPACH number =  $N \bmod M$  where N denotes the signature number (0..7) and M denotes the number of FPACHs that are defined in a cell. The FPACH number is in ascending order by *Common Physical Channel ID* IE contained in the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

#### ~~**[FDD - PCPCHs]:**~~

~~When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *CPCH Parameters* IE, the Node B shall configure and activate the indicated CPCH and the associated PCPCH(s), AP AICH and CD/CA ICH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.~~

~~If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes *CD Signatures* IE, the Node B may use only the given CD signatures on CD/CA ICH. Otherwise, the Node B may use all the CD signatures on CD/CA ICH.~~

~~If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes *CD Sub Channel Numbers* IE, the Node B may use only the given CD Sub Channels on CD/CA ICH. Otherwise, the Node B may use all the CD Sub Channels on CD/CA ICH.~~

~~If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes *Channel Request Parameters* IE, the Node B shall use the parameters to distinguish the PCPCHs.~~

~~If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes *AP Sub Channel Number* IE in *Channel Request Parameters* IE, the Node B shall use only these AP sub channel number to distinguish the configured PCPCH. Otherwise all AP subchannel numbers are used to distinguish the configured PCPCH.~~

~~If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes *AP Sub Channel Number* IE in *SF Request Parameters* IE, the Node B shall use only these AP sub channel number to distinguish the requested Spreading Factors. Otherwise all AP subchannel numbers are used to distinguish the configured Spreading Factor.~~

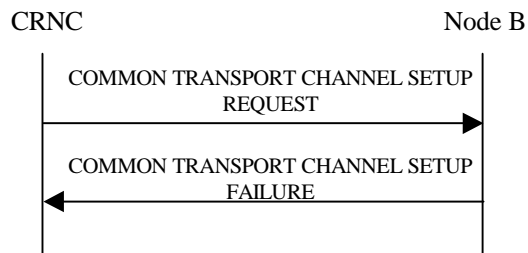
#### **General:**

After successfully configuring the requested common transport channels and the common physical channels, the Node B shall store the value of *Configuration Generation ID* IE and it shall respond with the COMMON TRANSPORT CHANNEL SETUP RESPONSE message with the *Common Transport Channel ID* IE, the *Binding ID* IE and the *Transport Layer Address* IE for the configured common transport channels.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes the *Transport Layer Address* and *Binding ID* IEs, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the indicated common transport channels.

After a successful procedure and once the transport bearers are established, the configured common transport channels and the common physical channels shall adopt the state Enabled [6] in the Node B and the common physical channels exist on the Uu interface.

### 8.2.1.3 Unsuccessful Operation



**Figure 2: Common Transport Channel Setup procedure, Unsuccessful Operation**

If the Node B is not able to support all or part of the configuration, it shall reject the configuration of all the channels in the COMMON TRANSPORT CHANNEL SETUP REQUEST message. The channels in the COMMON TRANSPORT CHANNEL SETUP REQUEST message shall remain in the same state as prior to the procedure. The *Cause* IE shall be set to an appropriate value. The value of *Configuration Generation ID* IE from the COMMON TRANSPORT CHANNEL SETUP REQUEST message shall not be stored.

If the configuration was unsuccessful, the Node B shall respond with a COMMON TRANSPORT CHANNEL SETUP FAILURE message.

Typical cause values are as follows:

#### Radio Network Layer Cause:

- Cell not available
- Power level not supported
- Node B Resources unavailable
- Requested Tx Diversity Mode not supported
- UL SF not supported
- DL SF not supported
- Common Transport Channel Type not supported

#### Transport Layer Cause:

- Transport Resources Unavailable

#### Miscellaneous Cause:

- O&M Intervention
- Control processing overload
- HW failure

### 8.2.1.4 Abnormal Conditions

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Secondary CCPCH* IE, and that IE contains [FDD - neither the *FACH Parameters* IE nor the *PCH Parameters* IE] [TDD – neither the *FACH* IE nor the



*PCH* IE], the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

~~[FDD - If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *CD Sub-Channel Numbers* IE, but the *CD Signatures* IE is not present, then the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.]~~

[TDD - If the *FACH CTrCH Id* IE or the *PCH CTrCH Id* IE does not equal the *SCCPCH CTrCH Id* IE, the Node B shall regard the Common Transport Channel Setup procedure as having failed and the Node B shall send the COMMON TRANSPORT CHANNEL SETUP FAILURE message to the CRNC.]

[TDD - If the *TDD Physical Channel Offset* IE, the *Repetition Period* IE, and the *Repetition Length* IE are not equal for each SCCPCH configured within the CTrCH, the Node B shall regard the Common Transport Channel Setup procedure as having failed and the Node B shall send the COMMON TRANSPORT CHANNEL SETUP FAILURE message to the CRNC.]

[1.28Mcps TDD - If the *Common Transport Channel ID* IE, and the *Transport Format Set* IE are not equal for each RACH configured in PRACH, the Node B shall regard the Common Transport Channel Setup procedure as having failed and the Node B shall send the COMMON TRANSPORT CHANNEL SETUP FAILURE message to the CRNC.]

If the state is already Enabled or Disabled [6] for at least one channel in the COMMON TRANSPORT CHANNEL SETUP REQUEST message which is received, the Node B shall reject the configuration of all channels with the *Cause* IE set to "Message not compatible with receiver state".

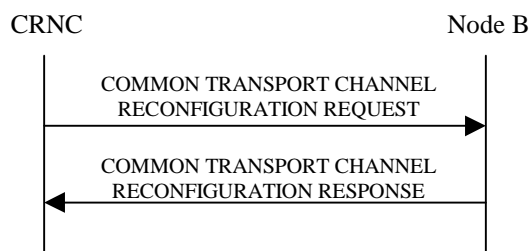
If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport channel intended to be established, the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

## 8.2.2 Common Transport Channel Reconfiguration

### 8.2.2.1 General

This procedure is used for reconfiguring common transport channels and/or common physical channels, while they still might be in operation.

### 8.2.2.2 Successful Operation



**Figure 3: Common Transport Channel Reconfiguration, Successful Operation**

The procedure is initiated with a COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

One message can configure only one of the following combinations:

- [FDD - FACHs, one PCH and/or one PICH related to one Secondary CCPCH], or
- [TDD - one CTrCH consisting of Secondary CCPCHs and FACHs, PCH with the corresponding PICH related to that group of Secondary CCPCHs], or
- one RACH and/or one AICH[FDD] )] and/or one FPACH[1.28Mcps TDD] related to one PRACH, ~~or,~~
- ~~— [FDD - one CPCH and/or one AP-AICH and/or one CD/CA-ICH related to one CPCH].~~

**SCCPCH:**

[TDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *SCCPCH Power* IE, the Node B shall reconfigure the maximum power that the indicated S-CCPCH shall use.]

**FACH:**

If the *FACH Parameters* IE is present, the Node B shall reconfigure the indicated FACH(s).

[FDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max FACH Power* IE, the Node B shall reconfigure the maximum power that the indicated FACH may use.]

[1.28Mcps TDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max FACH Power* IE, the Node B shall reconfigure the maximum power that the indicated FACH may use.]

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWS* IE, the Node B shall reconfigure the time of arrival window startpoint that the indicated FACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWE* IE, the Node B shall reconfigure the time of arrival window endpoint that the indicated FACH shall use.

**PCH:**

If the *PCH Parameters* IE is present, the Node B shall reconfigure the indicated PCH.

[FDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PCH Power* IE, the Node B shall reconfigure the power that the PCH shall use.]

[1.28Mcps TDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PCH Power* IE, the Node B shall reconfigure the power that the PCH shall use.]

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWS* IE, the Node B shall reconfigure the time of arrival window startpoint that the PCH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWE* IE, the Node B shall reconfigure the time of arrival window endpoint that the PCH shall use.

**PICH:**

If the *PICH Parameters* IE is present, the Node B shall reconfigure the indicated PICH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PICH Power* IE, the Node B shall reconfigure the power that the PICH shall use.

**[FDD - PRACH]:**

If the *PRACH Parameters* IE is present, the Node B shall reconfigure the indicated PRACH(s).

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Preamble Signatures* IE, the Node B shall reconfigure the preamble signatures that the indicated PRACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Allowed Slot Format Information* IE, the Node B shall reconfigure the slot formats that the indicated PRACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *RACH Sub Channel Numbers* IE, the Node B shall reconfigure the sub channel numbers that the indicated PRACH shall use.

**[FDD - AICH]:**

If the *AICH Parameters* IE is present, the Node B shall reconfigure the indicated AICH(s).

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *AICH Power* IE, the Node B shall reconfigure the power that the indicated AICH shall use.

**~~[FDD - CPCH]:~~**

~~If the *CPCH Parameters* IE is present, the Node B shall reconfigure the indicated CPCH.~~

If the **COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST** message includes the *UL SIR IE*, the Node B shall reconfigure the UL SIR for the UL power control for the indicated CPCH.

If the **COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST** message includes the *Initial DL Transmission Power IE*, the Node B shall reconfigure the Initial DL Transmission Power for the indicated CPCH.

If the **COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST** message includes the *Maximum DL Power IE*, the Node B shall apply this value to the new configuration of the indicated CPCH and never transmit with a higher power on any DL PCPCHs once the new configuration is being used.

If the **COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST** message includes the *Minimum DL Power IE*, the Node B shall apply this value to the new configuration of the indicated CPCH and never transmit with a lower power on any DL PCPCHs once the new configuration is being used.

#### **[FDD – AP-AICH]:**

If the *AP AICH Parameters IE* is present, the Node B shall reconfigure the indicated AP AICH.

If the **COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST** message includes the *AP AICH Power IE*, the Node B shall reconfigure the power that the AP AICH shall use.

If the **COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST** message includes the *CSICH Power IE*, the Node B shall reconfigure the power that the CSICH shall use.

#### **[FDD – CD/CA-ICH]:**

If the *CD/CA ICH Parameters IE* is present, the Node B shall reconfigure the indicated CD/CA ICH.

If the **COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST** message includes the *CD/CA AICH Power IE*, the Node B shall reconfigure the power that the CD/CA AICH shall use.

#### **[1.28Mcps TDD - FPACH]:**

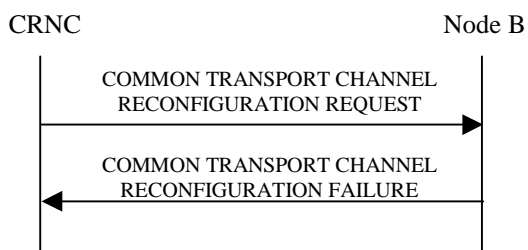
If the *FPACH Parameters IE* is included, the Node B shall reconfigure the indicated FPACH.

If the **COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST** message includes the *Max FPACH Power IE*, the Node B shall reconfigure the power that the FPACH shall use.

#### **General:**

After a successful procedure, the channels will have adopted the new configuration in the Node B. The channels in the **COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST** message shall remain in the same state as prior to the procedure. The Node B shall store the value of *Configuration Generation ID IE* and the Node B shall respond with the **COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE** message.

### 8.2.2.3 Unsuccessful Operation



**Figure 4: Common Transport Channel Reconfiguration procedure, Unsuccessful Operation**

If the Node B is not able to support all or part of the configuration, it shall reject the configuration of all the channels in the **COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST** message. The channels in the **COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST** message shall remain in the same state as prior to the procedure. The *Cause IE* shall be set to an appropriate value. The value of *Configuration Generation ID IE* from the **COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST** message shall not be stored.

If the configuration was unsuccessful, the Node B shall respond with the COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE message.

Typical cause values are as follows:

**Radio Network Layer Cause:**

- Cell not available
- Power level not supported
- Node B Resources unavailable

**Transport Layer Cause:**

- Transport Resources Unavailable

**Miscellaneous Cause:**

- O&M Intervention
- Control processing overload
- HW failure

#### 8.2.2.4 Abnormal Conditions

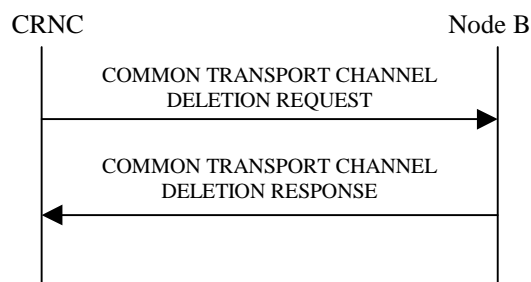
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### 8.2.3 Common Transport Channel Deletion

#### 8.2.3.1 General

This procedure is used for deleting common physical channels and common transport channels.

#### 8.2.3.2 Successful Operation



**Figure 5: Common Transport Channel Deletion procedure, Successful Operation**

The procedure is initiated with a COMMON TRANSPORT CHANNEL DELETION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

**Secondary CCPCH:**

If the *Common Physical Channel ID* IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a Secondary CCPCH, the Node B shall delete the indicated channel and the FACHs and PCH supported by that Secondary CCPCH. If there is a PCH that is deleted, the PICH associated with that PCH shall also be deleted.

**PRACH:**

If the *Common Physical Channel ID* IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a PRACH, the Node B shall delete the indicated channel and the RACH supported by the PRACH. [FDD - The AICH associated with the RACH shall also be deleted.]

#### ~~FDD - PCPCHs:~~

~~If the *Common Physical Channel ID* IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates one of the PCPCHs for a CPCH, the Node B shall delete all PCPCHs associated with the indicated channel and the CPCH supported by these PCPCHs. The AP AICH and CD/CA ICH associated with the CPCH shall also be deleted.~~

#### General:

[TDD - If the requested common physical channel is a part of a CCTrCH, all common transport channels and all common physical channels associated with this CCTrCH shall be deleted.]

After a successful procedure, the channels are deleted in the Node B. The channels in the COMMON TRANSPORT CHANNEL DELETION REQUEST message shall be set to state Not Existing ref. [6]. The Node B shall store the received value of the *Configuration Generation ID* IE and respond with the COMMON TRANSPORT CHANNEL DELETION RESPONSE message.

### 8.2.3.3 Unsuccessful Operation

-

### 8.2.3.4 Abnormal Conditions

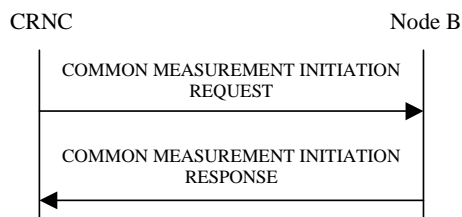
If the C-ID in the COMMON TRANSPORT CHANNEL DELETION REQUEST message is not existing in the Node B or the Common Physical Channel ID does not exist in the Cell, the Node B shall respond with the COMMON TRANSPORT CHANNEL DELETION RESPONSE message.

## 8.2.8 Common Measurement Initiation

### 8.2.8.1 General

This procedure is used by a CRNC to request the initiation of measurements on common resources in a Node B.

### 8.2.8.2 Successful Operation



**Figure 11: Common Measurement Initiation procedure, Successful Operation**

The procedure is initiated with a COMMON MEASUREMENT INITIATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

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

[TDD - If the [3.84Mcps TDD - *Time Slot IE*] [1.28Mcps TDD - *Time Slot LCR IE*] is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the requested time slot individually.]

~~[FDD - If the *Spreading Factor IE* is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the PCPCHs whose minimum allowed spreading factor (Min UL Channelisation Code Length) is equal to the value of the *Spreading Factor IE*.]~~

If the *Common Measurement Type IE* is not set to "SFN-SFN Observed Time Difference" and the *SFN Reporting Indicator IE* is set to "FN Reporting Required", the *SFN IE* shall be included in the COMMON MEASUREMENT REPORT message or in the COMMON MEASUREMENT RESPONSE message, the latter only in the case the *Report Characteristics IE* is set to "On Demand". The reported SFN shall be the SFN at the time when the measurement value was reported by the layer 3 filter, referred to as point C in the measurement model [25]. If the *Common Measurement Type IE* is set to "SFN-SFN Observed Time Difference", the *SFN Reporting Indicator IE* shall be ignored.

#### Common measurement type:

If the *Common Measurement Type IE* is set to "SFN-SFN Observed Time Difference", then the Node B shall initiate the SFN-SFN Observed Time Difference measurements between the reference cell identified by *C-ID IE* and the neighbouring cells identified by the *UTRAN Cell Identifier(UC-Id) IE* in the *Neighbouring Cell Measurement Information IE*.

#### Report characteristics:

The *Report Characteristics IE* indicates how the reporting of the measurement shall be performed. See also Annex B.

If the *Report Characteristics IE* is set to "On Demand" and if the *SFN IE* is not provided, the Node B shall return the result of the requested measurement immediately. If the *SFN IE* is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25].

If the *Report Characteristics IE* is set to "Periodic", the Node B shall periodically initiate a Common Measurement Reporting procedure for this measurement, with the requested report frequency. If the *Common Measurement Type IE* is set to "SFN-SFN Observed Time Difference", all the available measurement results shall be reported in the *Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information IE* in the *SFN-SFN Measurement*

*Value Information* IE and the Node B shall indicate in the *Unsuccessful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE all the remaining neighbouring cells with no measurement result available in the Common Measurement Reporting procedure. If the *SFN* IE is provided, it indicates the frame for which the first measurement value of a periodic reporting shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25].

If the *Report Characteristics* IE is set to "Event A", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero for the hysteresis time. If the *Common Measurement Type* IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class.

If the *Report Characteristics* IE is set to "Event B", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero for the hysteresis time. If the *Common Measurement Type* IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class.

If the *Report Characteristics* IE is set to "Event C", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next C event reporting for the same measurement cannot be initiated before the rising time specified by the *Measurement Change Time* IE has elapsed since the previous event reporting.

If the *Report Characteristics* IE is set to "Event D", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next D event reporting for the same measurement cannot be initiated before the falling time specified by the *Measurement Change Time* IE has elapsed since the previous event reporting.

If the *Report Characteristics* IE is set to "Event E", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided, the Node B shall initiate the Common Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Common Measurement Reporting procedure (Report B) as well as terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the Node B shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B. If the *Common Measurement Type* IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class.

If the *Report Characteristics* IE is set to "Event F", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided the Node B shall also initiate the Common Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Common Measurement Reporting procedure (Report B) as well as terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the Node B shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B. If the *Common Measurement Type* IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class.

If the *Report Characteristics* IE is set to "On Modification" and if the *SFN* IE is not provided, the Node B shall report the result of the requested measurement immediately. If the *SFN* IE is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25]. Then, the Node B shall initiate the Common Measurement Reporting procedure in accordance to the following conditions:

1. If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning":
  - If the *T<sub>UTRAN-GPS</sub> Change Limit* IE is included in the *T<sub>UTRAN-GPS</sub> Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], calculate the change of *T<sub>UTRAN-GPS</sub>* value ( $F_n$ ). The Node B shall initiate the Common Measurement Reporting procedure

and set  $n$  equal to zero when the absolute value of  $F_n$  rises above the threshold indicated by the  $T_{UTRAN-GPS}$  *Change Limit* IE. The change of  $T_{UTRAN-GPS}$  value ( $F_n$ ) is calculated according to the following:

$$F_n=0 \text{ for } n=0$$

$$F_n = (M_n - M_{n-1}) \text{ mod } 37158912000000 - ((SFN_n - SFN_{n-1}) \text{ mod } 4096) * 10 * 3.84 * 10^3 * 16 + F_{n-1} \\ \text{ for } n > 0$$

$F_n$  is the change of the  $T_{UTRAN-GPS}$  value expressed in unit [1/16 chip] when  $n$  measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

$M_n$  is the latest measurement result received after point C in the measurement model [25], measured at  $SFN_n$ .

$M_{n-1}$  is the previous measurement result received after point C in the measurement model [25], measured at  $SFN_{n-1}$ .

$M_1$  is the first measurement result received after point C in the measurement model [25], after the first Common Measurement Reporting at initiation or after the last event was triggered.

$M_0$  is equal to the value reported in the first Common Measurement Reporting at initiation or in the Common Measurement Reporting when the event was triggered.

- If the *Predicted  $T_{UTRAN-GPS}$  Deviation Limit* IE is included in the  *$T_{UTRAN-GPS}$  Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], update the  $P_n$  and  $F_n$ . The Node B shall initiate the Common Measurement Reporting procedure and set  $n$  equal to zero when  $F_n$  rises above the threshold indicated by the *Predicted  $T_{UTRAN-GPS}$  Deviation Limit* IE. The  $P_n$  and  $F_n$  are calculated according to the following:

$$P_n=b \text{ for } n=0$$

$$P_n = ((a/16) * ((SFN_n - SFN_{n-1}) \text{ mod } 4096)/100 + ((SFN_n - SFN_{n-1}) \text{ mod } 4096) * 10 * 3.84 * 10^3 * 16 + P_{n-1}) \\ \text{ mod } 37158912000000 \quad \text{ for } n > 0$$

$$F_n = \min((M_n - P_n) \text{ mod } 37158912000000, (P_n - M_n) \text{ mod } 37158912000000) \quad \text{ for } n > 0$$

$P_n$  is the predicted  $T_{UTRAN-GPS}$  value when  $n$  measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

$a$  is the last reported  $T_{UTRAN-GPS}$  Drift Rate value.

$b$  is the last reported  $T_{UTRAN-GPS}$  value.

$F_n$  is the deviation of the last measurement result from the predicted  $T_{UTRAN-GPS}$  value ( $P_n$ ) when  $n$  measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

$M_n$  is the latest measurement result received after point C in the measurement model [25], measured at  $SFN_n$ .

$M_1$  is the first measurement result received after point C in the measurement model [25], after the first Common Measurement Reporting at initiation or after the last event was triggered.

The  $T_{UTRAN-GPS}$  Drift Rate is determined by the Node B in an implementation-dependent way after point B in the measurement model [26].

## 2. If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference":

- If the *SFN-SFN Change Limit* IE is included in the *SFN-SFN Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], calculate the change of SFN-SFN value ( $F_n$ ). The Node B shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set  $n$  equal to zero when  $F_n$  rises above the threshold indicated by the *SFN-SFN Change Limit* IE. The change of the SFN-SFN value is calculated according to the following:

$$F_n=0 \quad \text{ for } n=0$$

$$[FDD - F_n = (M_n - a) \text{ mod } 614400 \quad \text{ for } n > 0]$$



$$[\text{TDD} - F_n = (M_n - a) \bmod 40960 \quad \text{for } n > 0]$$

$F_n$  is the change of the SFN-SFN value expressed in unit [1/16 chip] when  $n$  measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

$a$  is the last reported SFN-SFN.

$M_n$  is the latest measurement result received after point C in the measurement model [25], measured at SFN <sub>$n$</sub> .

$M_j$  is the first measurement result received after point C in the measurement model [25] after the first Common Measurement Reporting at initiation or after the last event was triggered.

- If the *Predicted SFN-SFN Deviation Limit* IE is included in the *SFN-SFN Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], update the  $P_n$  and  $F_n$ . The Node B shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set  $n$  equal to zero when the  $F_n$  rises above the threshold indicated by the *Predicted SFN-SFN Deviation Limit* IE. The  $P_n$  and  $F_n$  are calculated according to the following:

$$P_n = b \text{ for } n = 0$$

$$[\text{FDD} - P_n = ((a/16) * ((SFN_n - SFN_{n-1}) \bmod 4096) / 100 + P_{n-1}) \bmod 614400 \quad \text{for } n > 0]$$

$$[\text{FDD} - F_n = \min((M_n - P_n) \bmod 614400, (P_n - M_n) \bmod 614400) \quad \text{for } n > 0]$$

$$[\text{TDD} - P_n = ((a/16) * (15 * (SFN_n - SFN_{n-1}) \bmod 4096 + (TS_n - TS_{n-1}) / 1500 + P_{n-1}) \bmod 40960 \quad \text{for } n > 0]$$

$$[\text{TDD} - F_n = \min((M_n - P_n) \bmod 40960, (P_n - M_n) \bmod 40960) \quad \text{for } n > 0]$$

$P_n$  is the predicted SFN-SFN value when  $n$  measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

$a$  is the last reported SFN-SFN Drift Rate value.

$b$  is the last reported SFN-SFN value.

$abs$  denotes the absolute value.

$F_n$  is the deviation of the last measurement result from the predicted SFN-SFN value ( $P_n$ ) when  $n$  measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

$M_n$  is the latest measurement result received after point C in the measurement model [25], measured at [TDD - the Time Slot TS <sub>$n$</sub>  of] the Frame SFN <sub>$n$</sub> .

$M_j$  is the first measurement result received after point C in the measurement model [25] after the first Common Measurement Reporting at initiation or after the last event was triggered.

The SFN-SFN Drift Rate is determined by the Node B in an implementation-dependent way after point B in the measurement model [26].

If the *Report Characteristics* IE is not set to "On Demand", the Node B is required to perform reporting for a common measurement object, in accordance with the conditions provided in the COMMON MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no common measurement object(s) for which a measurement is defined exists anymore, the Node B shall terminate the measurement locally, i.e. without reporting this to the CRNC.

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

#### Higher layer filtering:

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

The averaging shall be performed according to the following formula.

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

The variables in the formula are defined as follows:

$F_n$  is the updated filtered measurement result

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

$M_n$  is the latest received measurement result from physical layer measurements, the unit used for  $M_n$  is the same unit as the reported unit in the COMMON MEASUREMENT INITIATION RESPONSE, COMMON MEASUREMENT REPORT messages or the unit used in the event evaluation (i.e. same unit as for  $F_n$ )

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

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

#### **Common measurement accuracy:**

If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning", then the Node B shall use the *UTRAN GPS Timing Measurement Accuracy Class* IE included in the *Common Measurement Accuracy* IE according to the following:

- If the *UTRAN GPS Timing Measurement Accuracy Class* IE indicates "Class A", then the Node B shall perform the measurement with highest supported accuracy within the accuracy classes A, B and C.
- If the *UTRAN GPS Timing Measurement Accuracy Class* IE indicates "Class B", then the Node B shall perform the measurement with highest supported accuracy within the accuracy classes B and C.
- If the *UTRAN GPS Timing Measurement Accuracy Class* IE indicates "Class C", then the Node B shall perform the measurements with the accuracy according to class C.

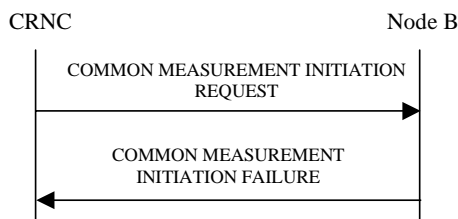
#### **Response message:**

If the Node B was able to initiate the measurement requested by the CRNC, it shall respond with the COMMON MEASUREMENT INITIATION RESPONSE message sent over the Node B Control Port. The message shall include the same Measurement ID that was used in the measurement request. Only in the case where the *Report Characteristics* IE is set to "On Demand" or "On Modification", the COMMON MEASUREMENT INITIATION RESPONSE message shall include the *Common Measurement Object Type* IE containing the measurement result and also the *Common Measurement Achieved Accuracy* IE if the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning".

If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference" and the *Report Characteristics* IE is set to "On Demand" or "On Modification", all the available measurement results shall be reported in the *Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE in the *SFN-SFN Measurement Value Information* IE and the Node B shall indicate in the *Unsuccessful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE all the remaining neighbouring cells with no measurement result available in the COMMON MEASUREMENT INITIATION RESPONSE message. For all available measurement results, the Node B shall include in the *Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE the *SFN-SFN Quality* IE and the *SFN-SFN Drift Rate Quality* IE, if available.

If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning" and the *Report Characteristics* IE is set to "On Demand" or "On Modification", the Node B shall include in the *T<sub>UTRAN-GPS</sub> Measurement Value Information* IE the *T<sub>UTRAN-GPS</sub> Quality* IE and the *T<sub>UTRAN-GPS</sub> Drift Rate Quality* IE, if available.

### 8.2.8.3 Unsuccessful Operation



**Figure 12: Common Measurement Initiation procedure, Unsuccessful Operation**

If the requested measurement cannot be initiated, the Node B shall send a COMMON MEASUREMENT INITIATION FAILURE message over the Node B Control Port. The message shall include the same Measurement ID that was used in the COMMON MEASUREMENT INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

#### Radio Network Layer Cause:

- Measurement not supported for the object.
- Measurement Temporarily not Available

### 8.2.8.4 Abnormal Conditions

If the Common Measurement Type received in the *Common Measurement Type* IE, except for the “HS-DSCH Required Power” and the “HS-DSCH Provided Bit Rate”, is not defined in ref. [4] or [5] to be measured on the Common Measurement Object Type received in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

[TDD - If the Common Measurement Type requires the Time Slot Information but the [3.84Mcps TDD - *Time Slot* IE] [1.28Mcps TDD - *Time Slot LCR* IE] is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.]

If the COMMON MEASUREMENT INITIATION REQUEST message contains the *SFN-SFN Measurement Threshold Information* IE (in the *Measurement Threshold* IE contained in the *Report Characteristics* IE) and it does not contain at least one IE, the Node B shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the COMMON MEASUREMENT INITIATION REQUEST message contains the  $T_{UTRAN-GPS}$  *Measurement Threshold Information* IE (in the *Measurement Threshold* IE contained in the *Report Characteristics* IE) and it does not contain at least one IE, the Node B shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", but the *Neighbouring Cell Measurement Information* IE is not received in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning", but the  $T_{UTRAN-GPS}$  *Measurement Accuracy Class* IE in the *Common Measurement Accuracy* IE is not included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

If the *Common Measurement Type* IE is not set to "UTRAN GPS Timing of Cell Frames for UE Positioning" and the *Common Measurement Accuracy* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

The allowed combinations of the Common Measurement Type and Report Characteristics Type are shown in the table below marked with "X". For not allowed combinations, the Node B shall regard the Common Measurement Initiation procedure as failed.

Table 4: Allowed Common Measurement Type and Report Characteristics Type combinations

Common Measurement Type	Report Characteristics Type								
	On Demand	Periodic	Event A	Event B	Event C	Event D	Event E	Event F	On Modification
Received Total Wide Band Power	X	X	X	X	X	X	X	X	
Transmitted Carrier Power	X	X	X	X	X	X	X	X	
Acknowledged PRACH Preambles	X	X	X	X	X	X	X	X	
UL Timeslot ISCP	X	X	X	X	X	X	X	X	
<del>Acknowledged-PCPCH Access-Preambles</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	
<del>Detected PCPCH Access Preambles</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	
UTRAN GPS Timing of Cell Frames for UE Positioning	X	X							X
SFN-SFN Observed Time Difference	X	X							X
Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission	X	X	X	X	X	X	X	X	
HS-DSCH Required Power	X	X	X	X			X	X	
HS-DSCH Provided Bit Rate	X	X							

If the *SFN* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message and the *Report Characteristics* IE is other than "Periodic", "On Demand" or "On Modification", the Node B shall regard the Common Measurement Initiation procedure as failed.



## 9.1.3 COMMON TRANSPORT CHANNEL SETUP REQUEST

### 9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
CHOICE <i>Common Physical Channel To Be Configured</i>	M				YES	ignore
>Secondary CCPCH					–	
>>Secondary CCPCH		1			–	
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>FDD SCCPCH Offset	M		9.2.2.15	Corresponds to [7]: S-CCPCH,k	–	
>>>DL Scrambling Code	C-PCH		9.2.2.13		–	
>>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>>TFCS	M		9.2.1.58	For the DL.	–	
>>>Secondary CCPCH Slot Format	M		9.2.2.43		–	
>>>TFCI Presence	C-SlotFormat		9.2.1.57	Refer to TS [7]	–	
>>>Multiplexing Position	M		9.2.2.23		–	
>>>Power Offset Information		1			–	
>>>>PO1	M		Power Offset 9.2.2.29	Power offset for the TFCI bits	–	
>>>>PO3	M		Power Offset 9.2.2.29	Power offset for the pilot bits	–	
>>>STTD Indicator	M		9.2.2.48		–	
>>>FACH Parameters		0..<maxno ofFACHs>			GLOBAL	reject
>>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>>>ToAWS	M		9.2.1.61		–	
>>>>ToAWE	M		9.2.1.60		–	
>>>>Max FACH Power	M		DL Power 9.2.1.21	Maximum allowed power on the FACH.	–	
>>>>Binding ID	O		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>Transport Layer Address	O		9.2.1.63	Shall be ignored if	YES	ignore

				bearer establishment with ALCAP.		
<b>&gt;&gt;&gt;PCH Parameters</b>		0..1			YES	reject
>>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>>>ToAWS	M		9.2.1.61		–	
>>>>ToAWE	M		9.2.1.60		–	
>>>>PCH Power	M		DL Power 9.2.1.21		–	
<b>&gt;&gt;&gt;&gt;PICH Parameters</b>		1			–	
>>>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>>>>PICH Power	M		9.2.1.49A		–	
>>>>>PICH Mode	M		9.2.2.26	Number of PI per frame	–	
>>>>>STTD Indicator	M		9.2.2.48		–	
>>>>Binding ID	O		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>Transport Layer Address	O		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>PRACH					–	
<b>&gt;&gt;PRACH</b>		1			–	
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>Scrambling Code Number	M		9.2.2.42		–	
>>>TFCS	M		9.2.1.58	For the UL.	–	
>>>Preamble Signatures	M		9.2.2.31		–	
<b>&gt;&gt;&gt;Allowed Slot Format Information</b>		1..<maxno ofSlotFormatsPRACH >			–	
>>>>RACH Slot Format	M		9.2.2.37		–	
>>>>RACH Sub Channel Numbers	M		9.2.2.38		–	
>>>Puncture Limit	M		9.2.1.50	For the UL	–	
>>>Preamble Threshold	M		9.2.2.32		–	
<b>&gt;&gt;&gt;RACH Parameters</b>		1			YES	reject
>>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>>Transport Format Set	M		9.2.1.59	For the UL.	–	

>>>>Binding ID	O		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>Transport Layer Address	O		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
<b>&gt;&gt;&gt;AICH Parameters</b>		1			-	
>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>AICH Transmission Timing	M		9.2.2.1		-	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		-	
>>>>AICH Power	M		9.2.2.D		-	
>>>>STTD Indicator	M		9.2.2.48		-	
> <u>Not Used</u> <del>PCPCHs</del>			<u>NULL</u>	<u>This choice shall not be used. Reject procedure if received.</u>	-	
<b>&gt;&gt;&gt;CPCH Parameters</b>		4			-	
>>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>>Transport Format Set	M		9.2.1.59	For the UL.	-	
>>>>AP Preamble Scrambling Code	M		CPCH Scrambling Code Number 9.2.2.4B		-	
>>>>CD Preamble Scrambling Code	M		CPCH Scrambling Code Number 9.2.2.4B		-	
>>>>TECS	M		9.2.1.58	For the UL	-	
>>>>CD Signatures	O		Preamble Signatures 9.2.2.34	Note: When not present, all CD signatures are to be used.	-	
>>>>CD Sub Channel Numbers	O		9.2.2.1G		-	
>>>>Puncture Limit	M		9.2.1.50	For the UL	-	
>>>>CPCH UL DPCCH Slot Format	M		9.2.2.4G	For UL CPCH message control part	-	
>>>>UL SIR	M		9.2.1.67A		-	
>>>>Initial DL Transmission Power	M		DL Power 9.2.1.24		-	
>>>>Maximum DL Power	M		DL Power 9.2.1.24		-	
>>>>Minimum DL Power	M		DL Power 9.2.1.24		-	



>>>PO2	M		Power-Offset 9.2.2.29	Power offset for the TPC bits relative to the pilot bits.	-	
>>>FDD-TPC-DL-Step-Size	M		9.2.2.16		-	
>>>N_Start_Message	M		9.2.2.23C		-	
>>>N_FOT	M		9.2.2.23A		-	
>>>Channel-Assignment-Indication	M		9.2.2.1D		-	
>>>CPCH-Allowed-Total-Rate	M		9.2.2.4A		-	
>>>PCPCH-Channel-Information		1..<maxno ofPCPCHs>			-	
>>>>Common-Physical-Channel-ID	M		9.2.1.13		-	
>>>>CPCH-Scrambling-Code-Number	M		9.2.2.4B	For UL-PCPCH	-	
>>>>DL-Scrambling-Code	M		9.2.2.13	For DL-CPCH message part	-	
>>>>FDD-DL-Channelisation-Code-Number	M		9.2.2.14	For DL-CPCH message part	-	
>>>>PCP-Length	M		9.2.2.24A		-	
>>>>UCSM-Information	G-NGA	4			-	
>>>>>Min-UL-Channelisation-Code-Length	M		9.2.2.22		-	
>>>>>NF_max	M		9.2.2.23B		-	
>>>>>Channel-Request-Parameters		0..<maxA PSigNum>			-	
>>>>>>AP-Preamble-Signature	M		9.2.2.1A		-	
>>>>>>AP-Sub-Channel-Number	Q		9.2.2.1B		-	
>>>VCAM-Mapping-Information	G-CA	1..<maxno ofLen>		Refer to TS [18]	-	
>>>>Min-UL-Channelisation-Code-Length	M		9.2.2.22		-	
>>>>NF_max	M		9.2.2.23B		-	
>>>>Max-Number-of-PCPCHs	M		9.2.2.20A		-	
>>>>>SF-Request-Parameters		1..<maxA PSigNum>			-	
>>>>>>AP-Preamble-Signature	M		9.2.2.1A		-	
>>>>>>AP-Sub-Channel-Number	Q		9.2.2.1B		-	
>>>>>>AP-AICH-Parameters		4			-	
>>>>>>>Common-Physical-Channel-ID	M		9.2.1.13		-	

>>>>FDD-DL-Channelisation Code-Number	M		9.2.2.14		-	
>>>>AP-AICH-Power	M		AICH-Power 9.2.2.D		-	
>>>>CSICH-Power	M		AICH-Power 9.2.2.D	For CSICH bits- at end of AP- AICH slot	-	
>>>>STTD-Indicator	M		9.2.2.48		-	
>>>CD/CA-ICH-Parameters		4			-	
>>>>Common-Physical-Channel-ID	M		9.2.1.13		-	
>>>>FDD-DL-Channelisation Code-Number	M		9.2.2.14		-	
>>>>CD/CA-ICH-Power	M		AICH-Power 9.2.2.D		-	
>>>>STTD-Indicator	M		9.2.2.48		-	
>>>Binding-ID	O		9.2.1.4	Shall be- ignored if- bearer- establishment- with ALCAP.	YES	ignore
>>>Transport Layer-Address	O		9.2.1.63	Shall be- ignored if- bearer- establishment- with ALCAP.	YES	ignore

Condition	Explanation
SlotFormat	The IE shall be present if the <i>Secondary CCPCH Slot Format</i> IE is set to any of the values from 8 to 17.
CA	<del>The IE shall be present if the <i>Channel Assignment Indication</i> IE is set to "CA Active".</del>
NCA	<del>The IE shall be present if the <i>Channel Assignment Indication</i> IE is set to "CA Inactive".</del>
PCH	The IE shall be present if the <i>PCH Parameters</i> IE is not present.

Range Bound	Explanation
<i>maxnoofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH
<del><i>maxnoofPCPCHs</i></del>	<del>Maximum number of PCPCHs for a CPCH</del>
<i>maxnoofLen</i>	Maximum number of Min UL Channelisation Code Length
<i>maxnoofSlotFormatsPRACH</i>	Maximum number of SF for a PRACH
<del><i>maxAPSigNum</i></del>	<del>Maximum number of AP Signatures</del>

## 9.1.4 COMMON TRANSPORT CHANNEL SETUP RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
<b>FACH Parameters Info</b>		<i>0..&lt;maxno ofFACHs&gt;</i>		The FACH Parameters may be combined with PCH Parameters	GLOBAL	ignore
>FACH Parameters	M		Common Transport Channel Information Response 9.2.1.14A		–	
PCH Parameters	O		Common Transport Channel Information Response 9.2.1.14A	The PCH Parameters may be combined with FACH Parameters	YES	ignore
RACH Parameters	O		Common Transport Channel Information Response 9.2.1.14A	The RACH Parameters shall not be combined with FACH Parameters or PCH Parameters	YES	ignore
<del>CPCH Parameters</del>	<del>O</del>		<del>Common Transport Channel Information Response 9.2.1.14A</del>	<del>The CPCH Parameters shall not be combined with FACH Parameters or PCH Parameters or RACH Parameters</del>	<del>YES</del>	<del>ignore</del>
Criticality Diagnostics	O		9.2.1.17		YES	ignore

Range Bound	Explanation
<i>maxno ofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH[FDD] / a group of Secondary CCPCHs [TDD]

## 9.1.6 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST

### 9.1.6.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
CHOICE <i>Common Physical Channel To Be Configured</i>	M				YES	reject
> <i>Secondary CCPCH</i>					–	
>> <b>FACH Parameters</b>		<i>0..&lt;maxFA CHCell&gt;</i>			GLOBAL	reject
>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>Max FACH Power	O		DL Power 9.2.1.21	Maximum allowed power on the FACH.	–	
>>>ToAWS	O		9.2.1.61		–	
>>>ToAWE	O		9.2.1.60		–	
>> <b>PCH Parameters</b>		<i>0..1</i>			YES	reject
>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>PCH Power	O		DL Power 9.2.1.21	Power to be used on the PCH.	–	
>>>ToAWS	O		9.2.1.61		–	
>>>ToAWE	O		9.2.1.60		–	
>> <b>PICH Parameters</b>		<i>0..1</i>			YES	reject
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>PICH Power	O		9.2.1.49A		–	
> <i>PRACH</i>					–	
>> <b>PRACH Parameters</b>		<i>0..&lt;maxP RACHCell &gt;</i>			GLOBAL	reject
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>Preamble Signatures	O		9.2.2.31		–	
>>> <b>Allowed Slot Format Information</b>		<i>0..&lt;maxno ofSlotForm atsPRACH &gt;</i>			–	
>>>>RACH Slot Format	M		9.2.2.37		–	
>>>>RACH Sub Channel Numbers	O		9.2.2.38		–	
>> <b>AICH Parameters</b>		<i>0..&lt;maxP RACHCell &gt;</i>			GLOBAL	reject
>>>Common Physical	M		9.2.1.13		–	

Channel ID						
>>>AICH Power	O		9.2.2.D		-	
> <del>Not Used</del> CPCH			NULL	This choice shall not be used. Reject procedure if received.	-	
>>CPCH Parameters		0..<maxno ofCPCHs>			GLOBAL	reject
>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>UL SIR	O		9.2.1.67A		-	
>>>Initial DL Transmission Power	O		DL Power 9.2.1.24		-	
>>>Maximum DL Power	O		DL Power 9.2.1.24		-	
>>>Minimum DL Power	O		DL Power 9.2.1.24		-	
>>AP-AICH Parameters		0..<maxno ofCPCHs>			GLOBAL	reject
>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>AP-AICH Power	O		AICH Power 9.2.2.D		-	
>>>CSICH Power	O		AICH Power 9.2.2.D	For CSICH bits at end of AP-AICH slot	-	
>>CD/CA-ICH Parameters		0..<maxno ofCPCHs>			GLOBAL	reject
>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>CD/CA-ICH Power	O		AICH Power 9.2.2.D		-	

Range Bound	Explanation
maxFACHCell	Maximum number of FACHs that can be defined in a Cell
<del>maxnoofCPCHs</del>	<del>Maximum number of CPCHs that can be defined in a Cell</del>
maxPRACHCell	Maximum number of PRACHs and AICHs that can be defined in a Cell
maxnoofSlotFormatsPRACH	Maximum number of SF for a PRACH

## 9.1.17 AUDIT RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
End Of Audit Sequence Indicator	M		9.2.1.29A		YES	ignore
<b>Cell Information</b>		<i>0..&lt;maxCellsInNodeB&gt;</i>			EACH	ignore
>C-ID	M		9.2.1.9		–	
>Configuration Generation ID	M		9.2.1.16		–	
>Resource Operational State	M		9.2.1.52		–	
>Availability Status	M		9.2.1.2		–	
>Local Cell ID	M		9.2.1.38	The local cell that the cell is configured on	–	
>Primary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to FDD only	YES	ignore
>Secondary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to FDD only	YES	ignore
>Primary CPICH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to FDD only	YES	ignore
<b>&gt;Secondary CPICH Information</b>		<i>0..&lt;maxSecondaryCPICHCells&gt;</i>		Applicable to FDD only	EACH	ignore
>>Secondary CPICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
>Primary CCPCH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>BCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore

<b>&gt;Secondary CCPCH Information</b>		$0..<maxS$ $CCPCHCell$ $\gg$			EACH	ignore
>>Secondary CCPCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
>PCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>PICH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
<b>&gt;FACH Information</b>		$0..<maxFA$ $CHCell$ $\gg$			EACH	ignore
>>FACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		–	
<b>&gt;PRACH Information</b>		$0..<maxP$ $RACHCell$ $\gg$			EACH	ignore
>>PRACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
<b>&gt;RACH Information</b>		$0..<maxR$ $ACHCell$ $\gg$			EACH	ignore
>>RACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		–	
<b>&gt;AICH Information</b>		$0..<maxP$ $RACHCell$ $\gg$		Applicable to FDD only	EACH	ignore
>>AICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
<b>&gt;Not Used 1PCPCH Information</b>		$0..<maxP$ $CPCHCell$ $\gg$	<u>NULL</u>	<u>This item shall not be used. Ignore if received.</u> <u>Applicable to</u>	<u>–EACH</u>	<u>ignore</u>

				FDD-only		
>>PCPCH Individual Information	M		Common-Physical-Channel-Status-Information-9.2.1.13A		-	
>Not Used 2 CPCH Information		0..<maxC PCHCell>	NULL	This item shall not be used. Ignore if received. Applicable to FDD-only	-EACH	ignore
>>CPCH Individual Information-	M		Common-Transport-Channel-Status-Information-9.2.1.14B		-	
>Not Used 3 AP-AICH Information		0..<maxC PCHCell>	NULL	This item shall not be used. Ignore if received. Applicable to FDD-only	-EACH	ignore
>>AP-AICH Individual Information-	M		Common-Physical-Channel-Status-Information-9.2.1.13A		-	
>Not Used 4 CD/CA-ICH Information		0..<maxC PCHCell>	NULL	This item shall not be used. Ignore if received. Applicable to FDD-only	-EACH	ignore
>>CD/CA-ICH Individual Information	M		Common-Physical-Channel-Status-Information-9.2.1.13A		-	
>SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	TDD Sync Channel Applicable to 3.84Mcps TDD only	YES	ignore
>FPACH Information		0..<maxFP ACHCell>		Applicable to 1.28Mcps TDD only	EACH	ignore
>>FPACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	



>DwPCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to 1.28Mcps TDD only	YES	ignore
<b>&gt;HS-DSCH Resources Information</b>		0..1			YES	ignore
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>Communication Control Port Information</b>		0..<maxC CPinNode B>			EACH	ignore
>Communication Control Port ID	M		9.2.1.15		–	
>Resource Operational State	M		9.2.1.52		–	
>Availability Status	M		9.2.1.2		–	
<b>Local Cell Information</b>		0..<maxLocalCellinNodeB>			EACH	ignore
>Local Cell ID	M		9.2.1.38		–	
>DL Or Global Capacity Credit	M		9.2.1.20B		–	
>UL Capacity Credit	O		9.2.1.65A		–	
>Common Channels Capacity Consumption Law	M		9.2.1.9A		–	
>Dedicated Channels Capacity Consumption Law	M		9.2.1.20A		–	
>Maximum DL Power Capability	O		9.2.1.39		–	
>Minimum Spreading Factor	O		9.2.1.47		–	
>Minimum DL Power Capability	O		9.2.1.46A		–	
>Local Cell Group ID	O		9.2.1.37A		–	
>Reference Clock Availability	O		9.2.3.14A	TDD only	YES	ignore
>Power Local Cell Group ID	O		9.2.1.49B		YES	ignore
>HSDPA Capability	O		9.2.1.31Ga		YES	ignore
<b>Local Cell Group Information</b>		0..<maxLocalCellinNodeB>			EACH	ignore
>Local Cell Group ID	M		9.2.1.37A		–	
>DL Or Global Capacity Credit	M		9.2.1.20B		–	
>UL Capacity Credit	O		9.2.1.65A		–	
>Common Channels Capacity Consumption Law	M		9.2.1.9A		–	
>Dedicated Channels Capacity Consumption Law	M		9.2.1.20A		–	
Criticality Diagnostics	O		9.2.1.17		YES	ignore
<b>Power Local Cell Group Information</b>		0..<maxLocalCellinNodeB>			EACH	ignore
>Power Local Cell Group ID	M		9.2.1.49B		–	
>Maximum DL Power Capability	M		9.2.1.39		–	

<b>Range Bound</b>	<b>Explanation</b>
<i>maxCellinNodeB</i>	Maximum number of Cells that can be configured in Node B
<i>maxCCPinNodeB</i>	Maximum number of Communication Control Ports that can exist in the Node B
<del><i>maxCPCHCell</i></del>	<del>Maximum number of CPCHs that can be defined in a Cell</del>
<i>maxLocalCellinNodeB</i>	Maximum number of Local Cells that can exist in the Node B
<del><i>maxPCPCHCell</i></del>	<del>Maximum number of PCPCHs that can be defined in a Cell</del>
<i>maxSCPICHCell</i>	Maximum number of Secondary CPICHs that can be defined in a Cell.
<i>maxSCCPCHCell</i>	Maximum number of Secondary CCPCHs that can be defined in a Cell.
<i>maxFACHCell</i>	Maximum number of FACHs that can be defined in a Cell
<i>maxPRACHCell</i>	Maximum number of PRACHs that can be defined in a Cell
<i>maxRACHCell</i>	Maximum number of RACHs that can be defined in a Cell
<i>maxFPACHCell</i>	Maximum number of FPACHs that can be defined in a Cell

## 9.1.18 COMMON MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Measurement ID	M		9.2.1.42		YES	reject
CHOICE <i>Common Measurement Object Type</i>	M				YES	reject
>Cell					–	
>>C-ID	M		9.2.1.9		–	
>>Time Slot	O		9.2.3.23	Applicable to 3.84Mcps TDD only	–	
>>Time Slot LCR	O		9.2.3.24A	Applicable to 1.28Mcps TDD only	YES	reject
>>Neighbouring Cell Measurement Information		0..<maxno MeasNCells>			GLOBAL	ignore
>>>CHOICE Neighbouring Cell Measurement Information					–	
>>>>Neighbouring FDD Cell Measurement Information				FDD only	–	
>>>>Neighbouring FDD Cell Measurement Information	M		9.2.1.47C		–	
>>>>Neighbouring TDD Cell Measurement Information				Applicable to 3.84Mcps TDD only	–	
>>>>Neighbouring TDD Cell Measurement Information	M		9.2.1.47D		–	
>>>>Additional Neighbouring Cell Measurement Information					–	
>>>>Neighbouring TDD Cell Measurement Information LCR				Applicable to 1.28Mcps TDD only	–	
>>>>>Neighbouring TDD Cell Measurement Information LCR	M		9.2.1.47E		YES	reject
>RACH				FDD only	–	
>>C-ID	M		9.2.1.9		–	
>>Common Transport Channel ID	M		9.2.1.14		–	
> <del>Not Used</del> GPGCH			<del>NULL</del>	<del>This choice shall not be used. Reject procedure if received. FDD only</del>	–	
>>C-ID	M		9.2.1.9		–	
>>Common Transport	M		9.2.1.14		–	

<del>Channel ID</del>						
<del>&gt;&gt;Spreading Factor</del>	<del>0</del>		<del>Minimum- UL Channelisat ion-Code- Length 9.2.2.22</del>		<del>-</del>	
Common Measurement Type	M		9.2.1.11		YES	reject
Measurement Filter Coefficient	O		9.2.1.41		YES	reject
Report Characteristics	M		9.2.1.51		YES	reject
SFN Reporting Indicator	M		FN Reporting Indicator 9.2.1.29B		YES	reject
SFN	O		9.2.1.53A		YES	reject
Common Measurement Accuracy	O		9.2.1.9B		YES	reject

Range Bound	Explanation
<i>maxnoMeasNCells</i>	Maximum number of neighbouring cells that can be measured on.

### 9.1.19 COMMON MEASUREMENT INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		-	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		-	
Measurement ID	M		9.2.1.42		YES	ignore
CHOICE <i>Common Measurement Object Type</i>	O			Common Measurement Object Type that the measurement was initiated with.	YES	ignore
<i>&gt;Cell</i>					-	
<i>&gt;&gt;Common Measurement Value</i>	M		9.2.1.12		-	
<i>&gt;RACH</i>				FDD only	-	
<i>&gt;&gt;Common Measurement Value</i>	M		9.2.1.12		-	
<i>&gt;Not UsedGPCH</i>			NULL	<u>This choice shall not be used. FDD-only</u>	-	
<del>&gt;&gt;Common Measurement Value</del>	<del>M</del>		<del>9.2.1.12</del>		<del>-</del>	
SFN	O		9.2.1.53A	Common Measurement Time Reference	YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore
Common Measurement Achieved Accuracy	O		Common Measureme nt Accuracy 9.2.1.9B		YES	ignore

## 9.1.21 COMMON MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		–	
Measurement ID	M		9.2.1.42		YES	ignore
CHOICE <i>Common Measurement Object Type</i>	M			Common Measurement Object Type that the measurement was initiated with.	YES	ignore
> <i>Cell</i>					–	
>>Common Measurement Value Information	M		9.2.1.12A		–	
> <i>RACH</i>				FDD only	–	
>>Common Measurement Value Information	M		9.2.1.12A		–	
> <i>Not Used CPCH</i>			<u>NULL</u>	<u>This choice shall not be used. FDD only</u>	–	
>> <del>Common Measurement Value Information</del>	<del>M</del>		<del>9.2.1.12A</del>		<del>–</del>	
SFN	O		9.2.1.53A	Common Measurement Time Reference	YES	ignore

## 9.1.32 RESOURCE STATUS INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		–	
CHOICE <i>Indication Type</i>	M				YES	ignore
> <i>No Failure</i>					–	
>>Local Cell Information		1..<maxLocalCellinNodeB>			EACH	ignore
>>>Local Cell ID	M		9.2.1.38		–	
>>>Add/Delete Indicator	M		9.2.1.1		–	
>>>DL Or Global Capacity Credit	C-add		9.2.1.20B		–	
>>>UL Capacity Credit	O		9.2.1.65A		–	
>>>Common Channels Capacity Consumption Law	C-add		9.2.1.9A		–	
>>>Dedicated Channels Capacity Consumption Law	C-add		9.2.1.20A		–	
>>>Maximum DL Power Capability	C-add		9.2.1.39		–	
>>>Minimum Spreading Factor	C-add		9.2.1.47		–	
>>>Minimum DL Power Capability	C-add		9.2.1.46A		–	
>>>Local Cell Group ID	O		9.2.1.37A		–	
>>>Reference Clock Availability	O		9.2.3.14A	TDD only	YES	ignore
>>>Power Local Cell Group ID	O		9.2.1.49B		YES	ignore
>>>HSDPA Capability	O		9.2.1.31Ga		YES	ignore
>>Local Cell Group Information		0..<maxLocalCellinNodeB>			EACH	ignore
>>>Local Cell Group ID	M		9.2.1.37A		–	
>>>DL Or Global Capacity Credit	M		9.2.1.20B		–	
>>>UL Capacity Credit	O		9.2.1.65A		–	
>>>Common Channels Capacity Consumption Law	M		9.2.1.9A		–	
>>>Dedicated Channels Capacity Consumption Law	M		9.2.1.20A		–	
>>Power Local Cell Group Information		0..<maxLocalCellinNodeB>			EACH	ignore
>>>Power Local Cell Group ID	M		9.2.1.49B		–	
>>>Maximum DL Power Capability	M		9.2.1.39		–	
> <i>Service Impacting</i>					–	
>>Local Cell Information		0..<maxLocalCellinNodeB>			EACH	ignore

		<i>odeB&gt;</i>				
>>>Local Cell ID	M		9.2.1.38		–	
>>>DL Or Global Capacity Credit	O		9.2.1.20B		–	
>>>UL Capacity Credit	O		9.2.1.65A		–	
>>>Common Channels Capacity Consumption Law	O		9.2.1.9A		–	
>>>Dedicated Channels Capacity Consumption Law	O		9.2.1.20A		–	
>>>Maximum DL Power Capability	O		9.2.1.39		–	
>>>Minimum Spreading Factor	O		9.2.1.47		–	
>>>Minimum DL Power Capability	O		9.2.1.46A		–	
>>>Reference Clock Availability	O		9.2.3.14A	TDD only	YES	ignore
>>>HSDPA Capability	O		9.2.1.31Ga		YES	ignore
<b>&gt;&gt;Local Cell Group Information</b>		<i>0..&lt;maxLocalCellinNodeB&gt;</i>			EACH	ignore
>>>Local Cell Group ID	M		9.2.1.37A		–	
>>>DL Or Global Capacity Credit	O		9.2.1.20B		–	
>>>UL Capacity Credit	O		9.2.1.65A		–	
>>>Common Channels Capacity Consumption Law	O		9.2.1.9A		–	
>>>Dedicated Channels Capacity Consumption Law	O		9.2.1.20A		–	
<b>&gt;&gt;Communication Control Port Information</b>		<i>0..&lt;maxCPCinNodeB&gt;</i>			EACH	ignore
>>>Communication Control Port ID	M		9.2.1.15		–	
>>>Resource Operational State	M		9.2.1.52		–	
>>>Availability Status	M		9.2.1.2		–	
<b>&gt;&gt;Cell Information</b>		<i>0..&lt;maxCellinNodeB&gt;</i>			EACH	ignore
>>>C-ID	M		9.2.1.9		–	
>>>Resource Operational State	O		9.2.1.52		–	
>>>Availability Status	O		9.2.1.2		–	
>>>Primary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignore
>>>Secondary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignore
>>>Primary CPICH	O		Common	FDD only	YES	ignore

Information			Physical Channel Status Information 9.2.1.13A			
<b>&gt;&gt;&gt;Secondary CPICH Information</b>		$0..<maxS_{CPICHCell}>$		FDD only	EACH	ignore
>>>>Secondary CPICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
>>>Primary CCPCH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>BCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
<b>&gt;&gt;&gt;Secondary CCPCH Information</b>		$0..<maxS_{CCPCHCell}>$			EACH	ignore
>>>>Secondary CCPCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
>>>PCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>>>PICH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
<b>&gt;&gt;&gt;FACH Information</b>		$0..<maxFA_{CHCell}>$			EACH	ignore
>>>>FACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		–	
<b>&gt;&gt;&gt;PRACH Information</b>		$0..<maxP_{RACHCell}>$			EACH	ignore
>>>>PRACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
<b>&gt;&gt;&gt;RACH Information</b>		$0..<maxP_{RACHCell}>$			EACH	ignore
>>>>RACH Individual	M		Common		–	



Information			Transport Channel Status Information 9.2.1.14B			
>>>AICH Information		$0..<maxP RACHCell>$		FDD only	EACH	ignore
>>>>AICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>> <del>Not Used 1PCPCH Information</del>		<del><math>0..&lt;maxP CPCHCell&gt;</math></del>	<del>NULL</del>	<del>This item shall not be used. Ignore if received. FDD-only</del>	<del>-EACH</del>	<del>ignore</del>
<del>&gt;&gt;&gt;&gt;PCPCH Individual Information</del>	<del>M</del>		<del>Common-Physical-Channel-Status-Information-9.2.1.13A</del>		<del>-</del>	
>>> <del>Not Used 2CPCH Information</del>		<del><math>0..&lt;maxC PCHCell&gt;</math></del>	<del>NULL</del>	<del>This item shall not be used. Ignore if received. FDD-only</del>	<del>-EACH</del>	<del>ignore</del>
<del>&gt;&gt;&gt;&gt;CPCH Individual Information</del>	<del>M</del>		<del>Common-Transport-Channel-Status-Information-9.2.1.14B</del>		<del>-</del>	
>>> <del>Not Used 3AP-AICH Information</del>		<del><math>0..&lt;maxC PCHCell&gt;</math></del>	<del>NULL</del>	<del>This item shall not be used. Ignore if received. FDD-only</del>	<del>-EACH</del>	<del>ignore</del>
<del>&gt;&gt;&gt;&gt;AP-AICH Individual Information</del>	<del>M</del>		<del>Common-Physical-Channel-Status-Information-9.2.1.13A</del>		<del>-</del>	
>>> <del>Not Used 4CD/CA-ICH Information</del>		<del><math>0..&lt;maxC PCHCell&gt;</math></del>	<del>NULL</del>	<del>This item shall not be used. Ignore if received. FDD-only</del>	<del>-EACH</del>	<del>ignore</del>
<del>&gt;&gt;&gt;&gt;CD/CA-ICH Individual Information</del>	<del>M</del>		<del>Common-Physical-Channel-Status-Information-9.2.1.13A</del>		<del>-</del>	
>>>SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to 3.84Mcps TDD only	YES	ignore
>>>FPACH Information		$0..<maxFP ACHCell>$		Applicable to 1.28Mcps TDD only	EACH	ignore
>>>>FPACH	M		Common		-	

Individual Information			Physical Channel Status Information 9.2.1.13A			
>>>DwPCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to 1.28Mcps TDD only	YES	ignore
>>>HS-DSCH Resources Information		0..1			YES	ignore
>>>>Resource Operational State	M		9.2.1.52		–	
>>>>Availability Status	M		9.2.1.2		–	
>>Power Local Cell Group Information		0..<maxLocalCellinNodeB>			EACH	ignore
>>>Power Local Cell Group ID	M		9.2.1.49B		–	
>>>Maximum DL Power Capability	M		9.2.1.39		–	
Cause	O		9.2.1.6		YES	ignore

Condition	Explanation
add	The IE shall be present if the <i>Add/Delete Indicator</i> IE is set to "Add".

Range Bound	Explanation
<i>maxLocalCellinNodeB</i>	Maximum number of Local Cells that can exist in the Node B
<i>maxCellinNodeB</i>	Maximum number of C-IDs that can be configured in the Node B
<del><i>maxCPCHCell</i></del>	<del>Maximum number of CPCHs that can be defined in a Cell</del>
<i>maxSCPICHCell</i>	Maximum number of Secondary CPICHs that can be defined in a Cell.
<i>maxSCCPCHCell</i>	Maximum number of Secondary CCPCHs that can be defined in a Cell.
<i>maxFACHCell</i>	Maximum number of FACHs that can be defined in a Cell
<del><i>maxPCPCHCell</i></del>	<del>Maximum number of PCPCHs that can be defined in a Cell</del>
<i>maxPRACHCell</i>	Maximum number of PRACHs and AICHs that can be defined in a Cell
<i>maxCCPinNodeB</i>	Maximum number of Communication Control Ports that can exist in the Node B
<i>maxFPACHCell</i>	Maximum number of FPACHs that can be defined in a Cell



## 9.2.1.6 Cause

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Cause Group	M			
>Radio Network Layer				
>>Radio Network Layer Cause	M		ENUMERATED ( unknown C-ID, Cell not available, Power level not supported, DL radio resources not available, UL radio resources not available, RL Already Activated/allocated, Node B Resources Unavailable, Measurement not supported for the object, Combining Resources not available, Requested configuration not supported, Synchronization failure, Priority transport channel established, SIB Origination in Node B not Supported, Requested Tx Diversity Mode not supported, Unspecified, BCCH scheduling error, Measurement Temporarily not Available, Invalid CM Setting, Reconfiguration CFN not elapsed, Number of DL codes not supported, S-CPICH not supported, Combining not supported, UL SF not supported, DL SF not supported, Common Transport Channel Type not supported, Dedicated Transport Channel Type not supported, Downlink Shared Channel Type not supported, Uplink Shared Channel Type not supported, CM not supported, Tx diversity no longer supported, Unknown Local Cell ID, ..., Number of UL codes not supported, Information temporarily not available, Information Provision not supported for the object, Cell Synchronisation not supported, Cell Synchronisation Adjustment not supported, DPC Mode Change not Supported,	

			IPDL already activated, IPDL not supported, IPDL parameters not available, Frequency Acquisition not supported, Power Balancing status not compatible, Requested type of Bearer Re-arrangement not supported, Signalling Bearer Re-arrangement not supported, Bearer Re-arrangement needed, Delayed Activation not Supported, RL Timing Adjustment not supported)	
>Transport Layer				
>>Transport Layer Cause	M		ENUMERATED ( Transport resource unavailable, Unspecified, ...)	
>Protocol				
>>Protocol Cause	M		ENUMERATED ( Transfer syntax error, Abstract syntax error (reject), Abstract syntax error (ignore and notify), Message not compatible with receiver state, Semantic error, Unspecified, Abstract syntax error (falsely constructed message), ...)	
>Misc				
>>Miscellaneous Cause	M		ENUMERATED ( Control processing overload Hardware failure, O&M intervention, Not enough user plane processing resources, Unspecified, ...)	

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

<b>Radio Network Layer cause</b>	<b>Meaning</b>
BCCH scheduling error	The Node B has detected an illegal BCCH schedule update (see subclause 8.2.16.3).
Bearer Re-arrangement needed	The Node B cannot perform the requested Radio Link Reconfiguration without bearer re-arrangement.

Cell not Available	The concerned cell or local cell is not available.
Cell Synchronisation not supported	The concerned cell(s) do not support Cell Synchronisation.
Combining not supported	The Node B does not support RL combining for the concerned cells.
Combining Resources Not Available	The value of the received <i>Diversity Control Field</i> IE was set to "Must", but the Node B cannot perform the requested combining.
CM not supported	The concerned cell(s) do not support Compressed Mode.
Common Transport Channel Type not supported	The concerned cell(s) do not support the RACH and/or FACH <del>and/or CPCH</del> -Common Transport Channel Type.
Dedicated Transport Channel Type not supported	The concerned cell(s) do not support the Dedicated Transport Channel Type.
Delayed Activation not Supported	The concerned cell(s) do not support delayed activation of RLs.
DL Radio Resources not Available	The Node B does not have sufficient DL radio resources available.
DL SF not supported	The concerned cell(s) do not support the requested DL SF.
DL Shared Channel Type not supported	The concerned cell(s) do not support the Downlink Shared Channel Type.
DPC Mode Change not Supported	The concerned cells do not support DPC mode changes.
Frequency Acquisition not supported	The concerned cell(s) do not support Frequency Acquisition.
Information Provision not supported for the object	The requested information provision is not supported for the concerned object types.
Information temporarily not available	The requested information can temporarily not be provided.
Invalid CM Settings	The concerned cell(s) consider the requested Compressed Mode settings invalid.
IPDL already activated	The concerned cell(s) have already active IPDL ongoing.
IPDL not supported	The concerned cell(s) do not support the IPDL.
IPDL parameters not available	The concerned cell(s) do not have IPDL parameters defining IPDL to be applied.
Measurement not Supported For The Object	At least one of the concerned cell(s) does not support the requested measurement on the concerned object type.
Measurement Temporarily not Available	The Node B can temporarily not provide the requested measurement value.
Node B resources unavailable	The Node B does not have sufficient resources available.
Number of DL codes not supported	The concerned cell(s) do not support the requested number of DL codes.
Number of UL codes not supported	The concerned cell(s) do not support the requested number of UL codes.
Power Level not Supported	A DL power level was requested which the concerned cell(s) do not support.
Power Balancing status not compatible	The power balancing status in the SRNC is not compatible with that of the Node B.
Priority transport channel established	The CRNC cannot perform the requested blocking since a transport channel with a high priority is present.
RL Timing Adjustment not Supported	The concerned cell(s) do not support adjustments of the RL timing.
Reconfiguration CFN not elapsed	The requested action cannot be performed due to that a RADIO LINK RECONFIGURATION COMMIT message was received previously, but the concerned CFN has not yet elapsed.
Requested Configuration not Supported	The concerned cell(s) do not support the requested configuration i.e. power levels, Transport Formats, physical channel parameters.
Requested Type of Bearer Re-arrangement not supported	The Node B does not support the requested type of bearer re-arrangement.
Requested Tx Diversity mode not supported	The concerned cell(s) do not support the requested transmit diversity mode.
RL already Activated/ allocated	The Node B has already allocated an RL with the requested RL-id for this UE context.
S-CPICH not supported	The concerned cell(s) do not support S-CPICH.
SIB Origination in Node B not Supported	The Node B does not support the origination of the requested SIB for the concerned cell.
Signalling Bearer Re-arrangement not supported	The Node B does not support the Signalling bearer re-arrangement.
Synchronisation Failure	Loss of UL Uu synchronisation.
Cell Synchronisation Adjustment not supported	The concerned cell(s) do not support Cell Synchronisation Adjustment.

Tx diversity no longer supported	Tx diversity can no longer be supported in the concerned cell.
UL Radio Resources not Available	The Node B does not have sufficient UL radio resources available.
UL SF not supported	The concerned cell(s) do not support the requested minimum UL SF.
UL Shared Channel Type not supported	The concerned cell(s) do not support the Uplink Shared Channel Type.
Unknown C-ID	The Node B is not aware of a cell with the provided C-ID.
Unknown Local Cell ID	The Node B is not aware of a local cell with the provided Local Cell ID
Unspecified	Sent when none of the above cause values applies but still the cause is Radio Network layer related.

<b>Transport Network Layer cause</b>	<b>Meaning</b>
Transport resource unavailable	The required transport resources are not available.
Unspecified	Sent when none of the above cause values applies but still the cause is Transport Network layer related.

<b>Protocol cause</b>	<b>Meaning</b>
Abstract Syntax Error (Reject)	The received message included an abstract syntax error and the concerned criticality indicated "reject" (see subclause 10.3).
Abstract Syntax Error (Ignore and Notify)	The received message included an abstract syntax error and the concerned criticality indicated "ignore and notify" (see subclause 10.3).
Abstract syntax error (falsely constructed message)	The received message contained IEs in wrong order or with too many occurrences (see subclause 10.3).
Message not Compatible with Receiver State	The received message was not compatible with the receiver state (see subclause 10.4).
Semantic Error	The received message included a semantic error (see subclause 10.4).
Transfer Syntax Error	The received message included a transfer syntax error (see subclause 10.2).
Unspecified	Sent when none of the above cause values applies but still the cause is protocol related.

<b>Miscellaneous cause</b>	<b>Meaning</b>
Control Processing Overload	Node B control processing overload.
Hardware Failure	Node B hardware failure.
Not enough User Plane Processing Resources	Node B has insufficient user plane processing resources available.
O&M Intervention	Operation and Maintenance intervention related to Node B equipment.
Unspecified	Sent when none of the above cause values applies and the cause is not related to any of the categories Radio Network Layer, Transport Network Layer or Protocol.

### 9.2.1.9A Common Channels Capacity Consumption Law

The capacity consumption law indicates to the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the allocated Spreading Factor. [FDD - For the PRACH, the reference spreading factor shall be the minimum possible spreading factor amongst the ones defined by the *RACH Slot Format* IE(s) in the Common Transport Channel Setup or Reconfiguration procedures. ~~For the PCPCH, the reference spreading factor shall be the minimum spreading factor computed from the TFCS as described in [8].~~]

This capacity consumption law indicates the consumption law to be used with the following procedures:

- Common Transport Channel Setup
- Common Transport Channel Deletion
- [FDD - Common Transport Channel Reconfiguration]

For the Common Transport Channel Setup procedure, the cost given in the consumption law shall be debited from the Capacity Credit, whereas it shall be credited to the Capacity Credit for the Common Transport Channel Deletion one.

[FDD - For the Common Transport Channel Reconfiguration procedure, the difference of the consumption cost for the new spreading factor and the consumption cost for the old spreading factor shall be debited from the Capacity Credit (or credited if this difference is negative).]

If the modelling of the internal resource capability of the Node B is modelled independently for the Uplink and Downlink, the "DL cost" shall be applied to the "DL or Global Capacity Credit" and the "UL Cost" shall be applied to the "UL Capacity Credit". If it is modelled as shared resources, both the "DL cost" and the "UL cost" shall be applied to the "DL or Global Capacity Credit".

[FDD - When the Common Transport Channel Setup, Deletion or Reconfiguration procedures are used, the Capacity Credit shall be updated considering all physical channels related in these procedures (S-CCPCH, PICH, PRACH, [and](#) AICH, ~~PCPCH, CD/CA-ICH and AP-AICH~~), i.e. one cost shall be credited to or debited from the Capacity Credit per physical channel.]

[FDD - The costs given in the consumption law are the costs per channelization code. When multiple channelization codes are used by a physical channel, the cost credited to or debited from the Capacity Credit for this physical channel shall be taken as N times the cost given in the consumption law, where N is the number of channelization codes.]

[TDD - When the Common Transport Channel Setup or Deletion procedures are used, the Capacity Credit shall be updated considering all physical channels related in these procedures (S-CCPCH, PICH, PRACH), i.e. one cost shall be credited to or debited from the Capacity Credit per physical channel.]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>SF Allocation Law</b>		<i>1..&lt;maxno of SFs&gt;</i>		[FDD - For each SF, cost of its allocation: the first instance corresponds to SF = 4, the second to SF = 8, the third to SF = 16 and so on.] [TDD – For each SF, cost of its allocation: the first instance corresponds to SF = 1, the second to SF = 2, the third to SF = 4 and so on.]
>DL cost	M		INTEGER (0..65535)	
>UL cost	M		INTEGER (0..65535)	

Range Bound	Explanation
<i>maxnoofSFs</i>	Maximum number of Spreading Factors



### 9.2.1.11 Common Measurement Type

The Common Measurement Type identifies which measurement that shall be performed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Measurement Type			ENUMERATED ( Received Total Wide Band Power, Transmitted Carrier Power, Acknowledged PRACH Preambles, UL Timeslot ISCP, <del>NotUsed-1-Acknowledged-PCPCH-Access-Preambles,</del> <del>NotUsed-2Detected-PCPCH-Access-Preambles,</del> ..., UTRAN GPS Timing of Cell Frames for UE Positioning, SFN-SFN Observed Time Difference, Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission, HS-DSCH Required Power, HS-DSCH Provided Bit Rate)	"UL Timeslot ISCP" is used by TDD only, "Acknowledged PRACH Preambles"; <del>'Acknowledged-PCPCH-Access-Preambles';</del> <del>'Detected-PCPCH-Access-Preambles'</del> <u>is</u> are used by FDD only. <u>This IE shall never be set to the values that are prefixed "NotUsed-".</u>

### 9.2.1.12 Common Measurement Value

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE <i>Common Measurement Value</i>	M				–	
> <i>Transmitted Carrier Power</i>					–	
>> <i>Transmitted Carrier Power Value</i>	M		INTEGER (0..100)	According to mapping in [22] and [23]	–	
> <i>Received Total Wide Band Power</i>					–	
>> <i>Received Total Wide Band Power Value</i>	M		INTEGER (0..621)	According to mapping in [22] and [23]	–	
> <i>Acknowledged PRACH Preambles</i>				FDD Only	–	
>> <i>Acknowledged PRACH Preamble Value</i>	M		INTEGER (0..240,...)	According to mapping in [22]	–	
> <i>UL Timeslot ISCP</i>				TDD Only	–	
>> <i>UL Timeslot ISCP</i>	M		INTEGER (0..127)	According to mapping in [23]	–	
> <i>Not Used 1 Acknowledged PCPCH Access Preambles</i>			NULL	<u>This choice shall not be used. Ignore if received. FDD Only</u>	–	
>> <i>Acknowledged PCPCH Access Preambles</i>	M		INTEGER (0..15,...)	According to mapping in [22]	–	
> <i>Not Used 2 Detected PCPCH Access Preambles</i>			NULL	<u>This choice shall not be used. Ignore if received. FDD Only</u>	–	
>> <i>Detected PCPCH Access Preambles</i>	M		INTEGER (0..240,...)	According to mapping in [22]	–	
> <i>Additional Common Measurement Values</i>					–	
>> <i>UTRAN GPS Timing Of Cell Frames for UE Positioning</i>					–	
>>> <i>T<sub>UTRAN-GPS</sub> Measurement Value Information</i>	M		9.2.1.64A		YES	ignore
>> <i>SFN-SFN Observed Time Difference</i>					–	
>>> <i>SFN-SFN Measurement Value Information</i>	M		9.2.1.53E		YES	ignore
>> <i>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission</i>					–	
>>> <i>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission Value</i>	M		INTEGER (0..100)	According to mapping in [22] and [23]	YES	ignore
>> <i>HS-DSCH Required Power</i>					–	
>>> <i>HS-DSCH</i>	M		9.2.1.31lc		YES	ignore

Required Power Value Information						
>>HS-DSCH Provided Bit Rate					-	
>>>HS-DSCH Provided Bit Rate Value Information	M		9.2.1.31lb		YES	ignore

### 9.2.1.21 DL Power

The *DL Power* IE indicates a power level relative to the [FDD - primary CPICH power] [TDD - primary CCPCH power] configured in a cell. If Transmit Diversity is applied to a downlink physical channel, the *DL Power* IE indicates the power offset between the linear sum of the power for this downlink physical channel on all branches and the [FDD - primary CPICH power] [TDD - PCCPCH power] configured in a cell.

[FDD - If referred to a DPCH, it indicates the power of the transmitted DPDCH symbols.] ~~[FDD - If referred to a DL-DPCCH for CPCH, it indicates the power of the transmitted pilot symbols].~~

[TDD - If referred to a DPCH or PDSCH, it indicates the power of a spreading factor 16 code, the power for a spreading factor 1 code would be 12 dB higher. If referred to a SCCPCH, the *DL Power* IE specifies the maximum power of the SCCPCH.]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Power			INTEGER (-350..150)	Value = DL Power /10 Unit: dB Range: -35.0 .. +15.0 dB Step: 0.1dB

#### 9.2.1.43 Measurement Increase/Decrease Threshold

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE <i>Measurement Increase/Decrease Threshold</i>	M				–	
> <i>Received Total Wide Band Power</i>					–	
>> <i>Received Total Wide Band Power</i>	M		INTEGER (0..620)	Unit: dB Range: 0..62 dB Step: 0.1 dB	–	
> <i>Transmitted Carrier Power</i>					–	
>> <i>Transmitted Carrier Power</i>	M		INTEGER (0..100)	According to mapping in [22] and [23]	–	
> <i>Acknowledged PRACH Preambles</i>				FDD only	–	
>> <i>Acknowledged PRACH Preambles</i>	M		INTEGER (0..240,...)	According to mapping in [22]	–	
> <i>UL Timeslot ISCP</i>				TDD only	–	
>> <i>UL Timeslot ISCP</i>	M		INTEGER (0..126)	Unit: dB Range: 0..63 dB Step: 0.5 dB	–	
> <i>SIR</i>					–	
>> <i>SIR</i>	M		INTEGER (0..62)	Unit: dB Range: 0..31 dB Step: 0.5 dB	–	
> <i>SIR Error</i>				FDD only	–	
>> <i>SIR Error</i>	M		INTEGER (0..124)	Unit: dB Range: 0..62 dB Step: 0.5 dB	–	
> <i>Transmitted Code Power</i>					–	
>> <i>Transmitted Code Power</i>	M		INTEGER (0..112,...)	Unit: dB Range: 0..56 dB Step: 0.5 dB	–	
> <i>RSCP</i>				TDD only	–	
>> <i>RSCP</i>	M		INTEGER (0..126)	Unit: dB Range: 0..63 dB Step: 0.5 dB	–	
> <i>Round Trip Time</i>				FDD only	–	
>> <i>Round Trip Time</i>	M		INTEGER (0..32766)	Unit: chips Range: 0 .. 2047.875 chips Step: 0.625 chips	–	
> <del><i>Not Used 1 Acknowledged PCPCH Access Preambles</i></del>			<del>NULL</del>	<del><i>This choice shall not be used. Reject procedure if received. FDD only</i></del>	–	
>> <del><i>Acknowledged PCPCH Access Preambles</i></del>	<del>M</del>		<del>INTEGER (0..15,...)</del>	<del><i>According to mapping in [22]</i></del>	<del>–</del>	
> <del><i>Not Used 2 Detected PCPCH Access Preambles</i></del>			<del>NULL</del>	<del><i>This choice shall not be used. Reject procedure if received. FDD only</i></del>	–	
>> <del><i>Detected PCPCH Access Preambles</i></del>	<del>M</del>		<del>INTEGER (0..240,...)</del>	<del><i>According to mapping in [22]</i></del>	<del>–</del>	
> <i>Additional Measurement Thresholds</i>					–	
>> <i>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH</i>					–	

<i>Transmission</i>						
>>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission	M		INTEGER (0..100)	According to mapping in [22] and [23]	YES	reject

#### 9.2.1.44 Measurement Threshold

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE <i>Measurement Threshold</i>	M				–	
> <i>Received Total Wide Band Power</i>					–	
>> <i>Received Total Wide Band Power</i>	M		INTEGER (0..621)	According to mapping in [22] and [23]	–	
> <i>Transmitted Carrier Power</i>					–	
>> <i>Transmitted Carrier Power</i>	M		INTEGER (0..100)	According to mapping in [22] and [23]	–	
> <i>Acknowledged PRACH Preambles</i>				FDD only	–	
>> <i>Acknowledged PRACH Preambles</i>	M		INTEGER (0..240,...)	According to mapping in [22]	–	
> <i>UL Timeslot ISCP</i>				TDD only	–	
>> <i>UL Timeslot ISCP</i>	M		INTEGER (0..127)	According to mapping in [23]	–	
> <i>SIR</i>					–	
>> <i>SIR</i>	M		INTEGER (0..63)	According to mapping in [22] and [23]	–	
> <i>SIR Error</i>				FDD only	–	
>> <i>SIR Error</i>	M		INTEGER (0..125)	According to mapping in [22]	–	
> <i>Transmitted Code Power</i>					–	
>> <i>Transmitted Code Power</i>	M		INTEGER (0..127)	According to mapping in [22] and [23]	–	
> <i>RSCP</i>				TDD only	–	
>> <i>RSCP</i>	M		INTEGER (0..127)	According to mapping in [23]	–	
> <i>Rx Timing Deviation</i>				Applicable to 3.84Mcps TDD only	–	
>> <i>Rx Timing Deviation</i>	M		INTEGER (0..8191)	According to mapping in [23]	–	
> <i>Round Trip Time</i>				FDD only	–	
>> <i>Round Trip Time</i>	M		INTEGER (0..32767)	According to mapping in [22]	–	
> <i><del>Not Used 1 Acknowledged PCPCH Access Preambles</del></i>			NULL	<i>This choice shall not be used. Reject procedure if received. FDD only</i>	–	
>> <i><del>Acknowledged PCPCH Access Preambles</del></i>	M		INTEGER (0..15,...)	<i>According to mapping in [22]</i>	–	
> <i><del>Not Used 2 Detected PCPCH Access Preambles</del></i>			NULL	<i>This choice shall not be used. Reject procedure if received. FDD only</i>	–	
>> <i><del>Detected PCPCH Access Preambles</del></i>	M		INTEGER (0..240,...)	<i>According to mapping in [22]</i>	–	
> <i>Additional Measurement Thresholds</i>					–	
>> <i>UTRAN GPS Timing Of Cell Frames For UE Positioning</i>					–	
>>> <i>TUTRAN-GPS Measurement Threshold Information</i>	M		9.2.1.64B		YES	reject
>> <i>SFN-SFN Observed Time Difference</i>					–	



>>>SFN-SFN Measurement Threshold Information	M		9.2.1.53C		YES	reject
>>Rx Timing Deviation LCR				Applicable to 1.28Mcps TDD Only	–	
>>>Rx Timing Deviation LCR	M		INTEGER (0..511)	According to mapping in [23]	YES	reject
>>HS-SICH Reception Quality				Applicable to TDD Only	–	
>>>HS-SICH Reception Quality	M		INTEGER (0..20)	According to mapping in [23]	YES	reject
>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission					–	
>>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission	M		INTEGER (0..100)	According to mapping in [22] and [23]	YES	reject
>>HS-DSCH Required Power					–	
>>>HS-DSCH Required Power Value	M		9.2.1.31Iba		YES	reject

### 9.2.1.58 TFCS (Transport Format Combination Set)

The Transport Format Combination Set is defined as a set of Transport Format Combinations on a Coded Composite Transport Channel. It is the allowed Transport Format Combinations of the corresponding Transport Channels. The DL Transport Format Combination Set is applicable for DL Transport Channels.

[FDD - Where the UE is assigned access to one or more DSCH transport channels then the UTRAN has the choice of two methods for signalling the mapping between TFCI(field 2) values and the corresponding TFC:

#### Method #1 - TFCI range

The mapping is described in terms of a number of groups, each group corresponding to a given transport format combination (value of CTFC(field2)). The CTFC(field2) value specified in the first group applies for all values of TFCI(field 2) between 0 and the specified 'Max TFCI(field2) value'. The CTFC(field2) value specified in the second group applies for all values of TFCI(field 2) between the 'Max TFCI(field2) value' specified in the last group plus one and the specified 'Max TFCI(field2) value' in the second group. The process continues in the same way for the following groups with the TFCI(field 2) value used by the UE in constructing its mapping table starting at the largest value reached in the previous group plus one.

#### Method #2 - Explicit

The mapping between TFCI(field 2) value and CTFC(field2) is spelt out explicitly for each value of TFCI (field2) ]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE <i>DSCH</i>	M			
>No split in TFCI				This choice is made if : a) The TFCS refers to the Uplink. OR b) The mode is FDD and none of the Radio Links of the concerned UE are assigned any DSCH transport channels. OR c) The mode is TDD.
>>TFCS		1..<maxno ofTFCs>		The first instance of the parameter corresponds to TFCI zero, the second to 1 and so on. [TDD - The first entry (for TFCI 0) should be ignored by the receiver.]
>>>CTFC	M		9.2.1.18A	
>>>CHOICE Gain Factors	C-PhysChan			
>>>>Signalled Gain Factors				
>>>>>CHOICE Mode	M			
>>>>>>FDD				
>>>>>>>Gain Factor $\beta_C$	M		INTEGER (0..15)	For UL DPCCCH or control part of PRACH- <del>or control part of PCPCH in FDD</del> ; mapping in accordance to [9]
>>>>>>>Gain Factor $\beta_D$	M		INTEGER (0..15)	For UL DPDCH or data part of PRACH- <del>or data part of PCPCH in FDD</del> ; mapping in accordance to [9]
>>>>>>>TDD				
>>>>>>>>Gain Factor $\beta$	M		iNTEGER (0..15)	For UL DPCH in TDD; mapping in accordance to [20].
>>>>>>Reference TFC nr	O		INTEGER (0..3)	If this TFC is a reference TFC, this IE indicates the reference number.
>>>>>Computed Gain Factors				
>>>>>>Reference TFC nr	M		INTEGER (0..3)	Indicates the reference TFC to be used to calculate the gain factors for this TFC.
>There is a split in the TFCI				This choice is made if : a) The TFCS refers to the Downlink. AND b) The mode is FDD and one of the Radio Links of the concerned UE is assigned one or more DSCH transport channels.
>>Transport Format Combination DCH		1..<maxTF Cl_1_Comb>		The first instance of the <i>Transport Format Combination DCH</i> IE corresponds to TFCI (field 1) = 0, the second to TFCI (field 1) = 1 and so on.
>>>CTFC(field1)	M		CTFC 9.2.1.18A	
>>CHOICE Signalling Method	M			
>>>TFCI Range				
>>>>TFC Mapping On DSCH		1..<maxNo TFCIGrou		

		<i>ps&gt;</i>		
>>>>Max TFCI(field2) Value	M		INTEGER (1..1023)	This is the Maximum value in the range of TFCI(field2) values for which the specified CTFC(field2) applies
>>>>CTFC(field2)	M		CTFC 9.2.1.18A	
>>>Explicit				
>>>>Transport Format Combination DSCH		<i>1..&lt;maxTF Cl_2_Combs&gt;</i>		The first instance of the <i>Transport Format Combination DSCH</i> IE corresponds to TFCI (field2) = 0, the second to TFCI (field 2) = 1 and so on.
>>>>CTFC(field2)	M		CTFC 9.2.1.18A	

Condition	Explanation
PhysChan	The IE shall be present if the TFCS concerns a UL DPCH or PRACH channel <del>{FDD or PCPCH channel}</del> .

Range Bound	Explanation
<i>maxnoofTFCs</i>	The maximum number of Transport Format Combinations
<i>maxTFCI_1_Combs</i>	Maximum number of TFCI (field 1) combinations (given by 2 raised to the power of the length of the TFCI (field 1))
<i>maxTFCI_2_Combs</i>	Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI (field 2))
<i>maxNoTFCIGroups</i>	Maximum number of groups, each group described in terms of a range of TFCI(field 2) values for which a single value of CTFC(field2) applies

## 9.2.2.1A AP Preamble Signature

[Void](#)

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE Type and Reference</b>	<b>Semantics Description</b>
AP Preamble Signature			INTEGER (0..15)	Described in ref. [9]

## 9.2.2.1B AP Sub Channel Number

[Void](#)

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE Type and Reference</b>	<b>Semantics Description</b>
AP Sub Channel Number			INTEGER (0..11)	Described in ref. [10]

## 9.2.2.1C CD Sub Channel Numbers

[Void](#)

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CD-Sub-Channel-Numbers			BIT-STRING (12)	Each bit indicates availability for a subchannel, where the subchannels are numbered "subchannel-0" to "subchannel-11". The value 1 of a bit indicates that the corresponding subchannel is available and the value 0 indicates that it is not available. The order of bits is to be interpreted according to subclause 9.3.4. See also [10].

## 9.2.2.1Ca Cell Portion ID

Cell Portion ID is the unique identifier for a cell portion within a cell. See [4].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Portion ID			INTEGER (0..63,...)	

## 9.2.2.1D Channel Assignment Indication

[Void](#)

~~The Channel Assignment Indication indicates whether CA is active or inactive. When CA is active, CPCH is in Versatile Channel Assignment Method (VCAM) mode and when CA is inactive, CPCH is in UE Channel Selection Method (UCSM) mode. In VCAM mode (CA active), CA message in CD/CA ICH shall be sent.~~

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Channel Assignment Indication			ENUMERATED (CA-Active, CA-Inactive)	

## 9.2.2.4A CPCH Allowed Total Rate

[Void](#)

<b>IE/Group-Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE-Type-and-Reference</b>	<b>Semantics-Description</b>
CPCH-Allowed-Total-Rate			ENUMERATED (15, 30, 60, 120, 240, 480, 960, 1920, 2880, 3840, 4800, 5760, ...)	Channel-Symbol-Rate Unit: kbps

## 9.2.2.4B CPCH Scrambling Code Number

[Void](#)

<b>IE/Group-Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE-Type-and-Reference</b>	<b>Semantics-Description</b>
CPCH-Scrambling-Code-Number			INTEGER (0..79)	Described in ref. [9]

## 9.2.2.4C CPCH UL DPCCH Slot Format

[Void](#)

Indicates the slot format used in UL CPCH message control part, accordingly to ref. [7]

<b>IE/Group-Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE-Type-and-Reference</b>	<b>Semantics-Description</b>
CPCH-UL-DPCCH-Slot-Format			INTEGER (0..2, ...)	

## 9.2.2.20A Max Number Of PCPCHs

[Void](#)

<b>IE/Group-Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE-Type-and-Reference</b>	<b>Semantics-Description</b>
Max-Number-Of-PCPCHs			INTEGER (1..64,...)	



## 9.2.2.23A N\_EOT

[Void](#)

The N\_EOT is defined as number of End of Transmission for release of PCPCH transmission.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
N_EOT			INTEGER (0..8)	Unit: TTI Value "8" is never used in this release.

## 9.2.2.23B NF\_max

[Void](#)

The NF\_max is defined as maximum number of Frame in a PCPCH message data part.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
NF_max			INTEGER (1..64,...)	

## 9.2.2.23C N\_Start\_Message

[Void](#)

The N\_Start\_Message is defined as number of Frames for start message of DL DPDCHs for a CPCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
N_Start_Message			INTEGER (1..8)	

## 9.2.2.23D Number Of Reported Cell Portions

Number of Reported Cell Portions indicates the number of Best Cell Portions values which shall be included in the measurement report.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Number Of Reported Cell Portions			INTEGER (1..64,...)	

## 9.2.2.24 Pattern Duration (PD)

Void.

## 9.2.2.24A PCP Length

[Void](#)

Indicates CPCH power control preamble length.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PCP Length			ENUMERATED (0..8)	

### 9.3.3 PDU Definitions

```

-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

IMPORTS
    Active-Pattern-Sequence-Information,
    AddorDeleteIndicator,
    AICH-Power,
    AICH-TransmissionTiming,
    AllocationRetentionPriority,
    APPreambleSignature,
    APSubChannelNumber,
    AvailabilityStatus,
    BCCH-ModificationTime,
    BindingID,
    BlockingPriorityIndicator,
    SCTD-Indicator,
    Cause,
    CTrCH-ID,
    CSubChannelNumbers,
    CellParameterID,
    CellSyncBurstCode,
    CellSyncBurstCodeShift,
    CellSyncBurstRepetitionPeriod,
    CellSyncBurstSIR,
    CellSyncBurstTiming,
    CellSyncBurstTimingThreshold,
    CFN,
    Channel-Assignment-Indication,
    ChipOffset,
    C-ID,
    Closedlooptimingadjustmentmode,

```

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CommonChannelsCapacityConsumptionLaw,  
Compressed-Mode-Deactivation-Flag,  
CommonMeasurementAccuracy,  
CommonMeasurementType,  
CommonMeasurementValue,  
CommonMeasurementValueInformation,  
CommonPhysicalChannelID,  
Common-PhysicalChannel-Status-Information,  
Common-TransportChannel-Status-Information,  
CommonTransportChannelID,  
CommonTransportChannel-InformationResponse,  
CommunicationControlPortID,  
ConfigurationGenerationID,  
ConstantValue,  
CriticalityDiagnostics,  
~~CPCH-Allowed-Total-Rate,~~  
~~CPCHScramblingCodeNumber,~~  
~~CPCH-UL-DPCH-SlotFormat,~~  
CRNC-CommunicationContextID,  
CSBMeasurementID,  
CSBTransmissionID,  
DCH-FDD-Information,  
DCH-InformationResponse,  
DCH-ID,  
FDD-DCHs-to-Modify,  
TDD-DCHs-to-Modify,  
DCH-TDD-Information,  
DedicatedChannelsCapacityConsumptionLaw,  
DedicatedMeasurementType,  
DedicatedMeasurementValue,  
DedicatedMeasurementValueInformation,  
DelayedActivation,  
DelayedActivationUpdate,  
DiversityControlField,  
DiversityMode,  
DL-DPCH-SlotFormat,  
DL-DPCH-TimingAdjustment,  
DL-or-Global-CapacityCredit,  
DL-Power,  
DL-PowerBalancing-Information,  
DL-PowerBalancing-ActivationIndicator,  
DLPowerAveragingWindowSize,  
DL-PowerBalancing-UpdatedIndicator,  
DL-ScramblingCode,  
DL-TimeslotISCP,  
DL-Timeslot-Information,  
DL-TimeslotLCR-Information,  
DL-TimeslotISCPInfo,  
DL-TimeslotISCPInfoLCR,  
DL-TPC-Pattern01Count,  
DPC-Mode,  
DPCH-ID,  
DSCH-ID,

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DSCH-FDD-Common-Information,  
DSCH-FDD-Information,  
DSCH-InformationResponse,  
DSCH-TDD-Information,  
DwPCH-Power,  
End-Of-Audit-Sequence-Indicator,  
EnhancedDSCHPC,  
EnhancedDSCHPCCounter,  
EnhancedDSCHPCIndicator,  
EnhancedDSCHPCWnd,  
EnhancedDSCHPowerOffset,  
FDD-DL-ChannelisationCodeNumber,  
FDD-DL-CodeInformation,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FirstRLS-Indicator,  
FNReportingIndicator,  
FPACH-Power,  
FrameAdjustmentValue,  
FrameHandlingPriority,  
FrameOffset,  
HSDPA-Capability,  
HS-PDSCH-FDD-Code-Information,  
HS-SCCH-ID,  
HS-SCCH-FDD-Code-Information,  
HS-SICH-ID,  
IB-OC-ID,  
IB-SG-DATA,  
IB-SG-POS,  
IB-SG-REP,  
IB-Type,  
InformationExchangeID,  
InformationReportCharacteristics,  
InformationType,  
InnerLoopDLPCStatus,  
IPDL-FDD-Parameters,  
IPDL-TDD-Parameters,  
IPDL-Indicator,  
IPDL-TDD-Parameters-LCR,  
LimitedPowerIncrease,  
Local-Cell-ID,  
MaximumDL-PowerCapability,  
Maximum-PDSCH-Power,  
MaximumTransmissionPower,  
~~Max-Number-of-PCPCHes,~~  
MaxNrOfUL-DPDCHs,  
MaxPRACH-MidambleShifts,  
MeasurementFilterCoefficient,  
MeasurementID,  
MidambleAllocationMode,  
MidambleShiftAndBurstType,  
MidambleShiftLCR,  
MinimumDL-PowerCapability,

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MinSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MultiplexingPosition,  
~~NEOT~~,  
NCyclesPerSFNperiod,  
~~NFmax~~,  
NRepetitionsPerCyclePeriod,  
N-INSYNC-IND,  
N-OUTSYNC-IND,  
NeighbouringCellMeasurementInformation,  
NeighbouringFDDCellMeasurementInformation,  
NeighbouringTDDCellMeasurementInformation,  
NodeB-CommunicationContextID,  
NumberOfReportedCellPortions,  
~~NStartMessage~~,  
NSubCyclesPerCyclePeriod,  
PagingIndicatorLength,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
~~PCP-Length~~,  
PDSCH-CodeMapping,  
PDSCHSet-ID,  
PDSCH-ID,  
PICH-Mode,  
PICH-Power,  
PowerAdjustmentType,  
PowerOffset,  
PowerRaiseLimit,  
PRACH-Midamble,  
PreambleSignatures,  
PreambleThreshold,  
PredictedSFNSFNDeviationLimit,  
PredictedTUTRANGPSDeviationLimit,  
PrimaryCPICH-Power,  
PrimaryCPICH-Usage-for-Channel-Estimation,  
PrimaryScramblingCode,  
PropagationDelay,  
SCH-TimeSlot,  
PunctureLimit,  
PUSCHSet-ID,  
PUSCH-ID,  
QE-Selector,  
Qth-Parameter,  
RACH-SlotFormat,  
RACH-SubChannelNumbers,  
ReferenceClockAvailability,  
ReferenceSFNoffset,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
RequestedDataValue,  
RequestedDataValueInformation,  
ResourceOperationalState,

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RL-Set-ID,  
RL-ID,  
RL-Specific-DCH-Info,  
Received-total-wide-band-power-Value,  
AdjustmentPeriod,  
ScaledAdjustmentRatio,  
MaxAdjustmentStep,  
RNC-ID,  
ScramblingCodeNumber,  
Secondary-CPICH-Information-Change,  
SecondaryCCPCH-SlotFormat,  
Segment-Type,  
S-FieldLength,  
SFN,  
SFNSFNChangeLimit,  
SFNSFNDriftRate,  
SFNSFNDriftRateQuality,  
SFNSFNQuality,  
ShutdownTimer,  
SIB-Originator,  
SpecialBurstScheduling,  
SignallingBearerRequestIndicator,  
SSDT-Cell-Identity,  
SSDT-CellID-Length,  
SSDT-Indication,  
Start-Of-Audit-Sequence-Indicator,  
STTD-Indicator,  
SSDT-SupportIndicator,  
SyncCase,  
SYNCD1CodeId,  
SyncFrameNumber,  
SynchronisationReportCharacteristics,  
SynchronisationReportType,  
T-Cell,  
T-RLFAILURE,  
TDD-ChannelisationCode,  
TDD-ChannelisationCodeLCR,  
TDD-DL-Code-LCR-Information,  
TDD-DPCHOffset,  
TDD-TPC-DownlinkStepSize,  
TDD-PhysicalChannelOffset,  
TDD-UL-Code-LCR-Information,  
TFCI2-BearerInformationResponse,  
TFCI2BearerRequestIndicator,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TFCS,  
TimeSlot,  
TimeSlotLCR,  
TimeSlotDirection,  
TimeSlotStatus,  
TimingAdjustmentValue,

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TimingAdvanceApplied,  
TnlQos,  
ToAWE,  
ToAWS,  
TransmissionDiversityApplied,  
TransmitDiversityIndicator,  
  
TransmissionGapPatternSequenceCodeInformation,  
Transmission-Gap-Pattern-Sequence-Information,  
TransportBearerRequestIndicator,  
TransportFormatSet,  
TransportLayerAddress,  
TSTD-Indicator,  
TUTRANGPS,  
TUTRANGPSChangeLimit,  
TUTRANGPSDriftRate,  
TUTRANGPSDriftRateQuality,  
TUTRANGPSQuality,  
UARFCN,  
UC-Id,  
USCH-Information,  
USCH-InformationResponse,  
UL-CapacityCredit,  
UL-DPCCH-SlotFormat,  
UL-SIR,  
UL-FP-Mode,  
UL-PhysCH-SF-Variation,  
UL-ScramblingCode,  
UL-Timeslot-Information,  
UL-TimeslotLCR-Information,  
UL-TimeSlot-ISCP-Info,  
UL-TimeSlot-ISCP-LCR-Info,  
UL-TimeslotISCP-Value,  
UL-TimeslotISCP-Value-IncrDecrThres,  
USCH-ID,  
HSDSCH-FDD-Information,  
HSDSCH-FDD-Information-Response,  
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,  
PrimaryCCPCH-RSCP,  
HSDSCH-FDD-Update-Information,  
HSDSCH-TDD-Update-Information,  
UL-Synchronisation-Parameters-LCR,  
TDD-DL-DPCH-TimeSlotFormat-LCR,  
TDD-UL-DPCH-TimeSlotFormat-LCR,  
TDD-TPC-UplinkStepSize-LCR,  
CellSyncBurstTimingLCR,

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```
TimingAdjustmentValueLCR,  
PrimaryCCPCH-RSCP-Delta  
FROM NBAP-IEs  
  
PrivateIE-Container{ },  
ProtocolExtensionContainer{ },  
ProtocolIE-Container{ },  
ProtocolIE-Single-Container{ },  
ProtocolIE-ContainerList{ },  
NBAP-PRIVATE-IES,  
NBAP-PROTOCOL-IES,  
NBAP-PROTOCOL-EXTENSION  
FROM NBAP-Containers  
  
id-Active-Pattern-Sequence-Information,  
id-AdjustmentRatio,  
id-AICH-Information,  
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-AP-AICH-Information,  
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-BCH-Information,  
id-BCCH-ModificationTime,  
id-bindingID,  
id-BlockingPriorityIndicator,  
id-Cause,  
id-CauseLevel-PSCH-ReconfFailure,  
id-CauseLevel-RL-AdditionFailureFDD,  
id-CauseLevel-RL-AdditionFailureTDD,  
id-CauseLevel-RL-ReconfFailure,  
id-CauseLevel-RL-SetupFailureFDD,  
id-CauseLevel-RL-SetupFailureTDD,  
id-CauseLevel-SyncAdjustmntFailureTDD,  
id-CCP-InformationItem-AuditRsp,  
id-CCP-InformationList-AuditRsp,  
id-CCP-InformationItem-ResourceStatusInd,  
id-CCTrCH-InformationItem-RL-FailureInd,  
id-CCTrCH-InformationItem-RL-RestoreInd,  
id-CCTrCH-Initial-DL-Power-RL-AdditionRqstTDD,  
id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD,  
id-CCTrCH-Initial-DL-Power-RL-SetupRqstTDD,  
id-CDCA-ICH-Information,  
id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-CellAdjustmentInfo-SyncAdjustmntRqstTDD,  
id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD,  
id-Cell-InformationItem-AuditRsp,  
id-Cell-InformationItem-ResourceStatusInd,  
id-Cell-InformationList-AuditRsp,  
id-CellParameterID,  
id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD,  
id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD,  
id-cellSyncBurstRepetitionPeriod,  
id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD,  
id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD,
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id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD,  
id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD,  
id-CellSyncBurstInfoList-CellSyncReconfRqstTDD,  
id-CellSyncInfo-CellSyncReprtTDD,  
id-CFN,  
id-CFNReportingIndicator,  
id-C-ID,  
id-Closed-Loop-Timing-Adjustment-Mode,  
id-CommonMeasurementAccuracy,  
id-CommonMeasurementObjectType-CM-Rprt,  
id-CommonMeasurementObjectType-CM-Rqst,  
id-CommonMeasurementObjectType-CM-Rsp,  
id-CommonMeasurementType,  
id-CommonPhysicalChannelID,  
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,  
id-CommunicationContextInfoItem-Reset,  
id-CommunicationControlPortID,  
id-CommunicationControlPortInfoItem-Reset,  
id-Compressed-Mode-Deactivation-Flag,  
id-ConfigurationGenerationID,  
~~id-CPCH-Information,~~  
~~id-CPCH-Parameters-CTCH-SetupRep,~~  
~~id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD,~~  
id-CRNC-CommunicationContextID,  
id-CriticalityDiagnostics,  
id-CSBTransmissionID,  
id-CSBMeasurementID,  
id-DCHs-to-Add-FDD,  
id-DCHs-to-Add-TDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-FDD-Information,  
id-DCH-TDD-Information,  
id-DCH-InformationResponse,  
id-DCH-RearrangeList-Bearer-RearrangeInd,  
id-DSCH-RearrangeList-Bearer-RearrangeInd,  
id-FDD-DCHs-to-Modify,  
id-TDD-DCHs-to-Modify,  
id-DedicatedMeasurementObjectType-DM-Rprt,  
id-DedicatedMeasurementObjectType-DM-Rqst,  
id-DedicatedMeasurementObjectType-DM-Rsp,  
id-DedicatedMeasurementType,  
id-DelayedActivation,  
id-DelayedActivationList-RL-ActivationCmdFDD,  
id-DelayedActivationList-RL-ActivationCmdTDD,  
id-DelayedActivationInformation-RL-ActivationCmdFDD,  
id-DelayedActivationInformation-RL-ActivationCmdTDD,  
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,

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id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,  
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,  
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,  
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-DL-DPCH-InformationList-RL-SetupRqstTDD,  
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,  
id-DL-DPCH-Information-RL-ReconfPrepFDD,  
id-DL-DPCH-Information-RL-ReconfRqstFDD,  
id-DL-DPCH-Information-RL-SetupRqstFDD,  
id-DL-DPCH-TimingAdjustment,  
id-DL-PowerBalancing-Information,  
id-DL-PowerBalancing-ActivationIndicator,  
id-DL-ReferencePowerInformationItem-DL-PC-Rqst,  
id-DL-PowerBalancing-UpdatedIndicator,  
id-DLReferencePower,  
id-DLReferencePowerList-DL-PC-Rqst,  
id-DL-TPC-Pattern01Count,  
id-DPC-Mode,  
id-DPCHConstant,  
id-DSCH-AddItem-RL-ReconfPrepFDD,  
id-DSCHs-to-Add-FDD,  
id-DSCH-DeleteItem-RL-ReconfPrepFDD,  
id-DSCH-DeleteList-RL-ReconfPrepFDD,  
id-DSCHs-to-Add-TDD,  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-DSCH-InformationResponse,  
id-DSCH-FDD-Information,  
id-DSCH-FDD-Common-Information,  
id-DSCH-TDD-Information,  
id-DSCH-ModifyItem-RL-ReconfPrepFDD,  
id-DSCH-ModifyList-RL-ReconfPrepFDD,  
id-End-Of-Audit-Sequence-Indicator,  
id-EnhancedDSCHPC,  
id-EnhancedDSCHPCIndicator,  
id-FACH-Information,  
id-FACH-ParametersList-CTCH-ReconfRqstTDD,  
id-FACH-ParametersList-CTCH-SetupRsp,  
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD,  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD,  
id-IndicationType-ResourceStatusInd,  
id-InformationExchangeID,  
id-InformationExchangeObjectType-InfEx-Rqst,

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id-InformationExchangeObjectType-InfEx-Rsp,  
id-InformationExchangeObjectType-InfEx-Rprt,  
id-InformationReportCharacteristics,  
id-InformationType,  
id-InitDL-Power,  
id-InnerLoopDLPCStatus,  
id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD,  
id-IPDLParameter-Information-Cell-ReconfRqstFDD,  
id-IPDLParameter-Information-Cell-SetupRqstFDD,  
id-IPDLParameter-Information-Cell-ReconfRqstTDD,  
id-IPDLParameter-Information-Cell-SetupRqstTDD,  
id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD,  
id-Limited-power-increase-information-Cell-SetupRqstFDD,  
id-Local-Cell-ID,  
id-Local-Cell-Group-InformationItem-AuditRsp,  
id-Local-Cell-Group-InformationItem-ResourceStatusInd,  
id-Local-Cell-Group-InformationItem2-ResourceStatusInd,  
id-Local-Cell-Group-InformationList-AuditRsp,  
id-Local-Cell-InformationItem-AuditRsp,  
id-Local-Cell-InformationItem-ResourceStatusInd,  
id-Local-Cell-InformationItem2-ResourceStatusInd,  
id-Local-Cell-InformationList-AuditRsp,  
id-AdjustmentPeriod,  
id-MaxAdjustmentStep,  
id-MaximumTransmissionPower,  
id-MeasurementFilterCoefficient,  
id-MeasurementID,  
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst,  
id-multipleRL-dl-DPCH-InformationList,  
id-multipleRL-dl-DPCH-InformationModifyList,  
id-multiple-RL-Information-RL-ReconfPrepTDD,  
id-multiple-RL-Information-RL-ReconfRqstTDD,  
id-multipleRL-ul-DPCH-InformationList,  
id-multipleRL-ul-DPCH-InformationModifyList,  
id-NCyclesPerSFNperiod,  
id-NeighbouringCellMeasurementInformation,  
id-NodeB-CommunicationContextID,  
id-NRepetitionsPerCyclePeriod,  
id-NumberOfReportedCellPortions,  
id-P-CCPCH-Information,  
id-P-CPICH-Information,  
id-P-SCH-Information,  
id-PCCPCH-Information-Cell-ReconfRqstTDD,  
id-PCCPCH-Information-Cell-SetupRqstTDD,  
id-PCH-Parameters-CTCH-ReconfRqstTDD,  
id-PCH-Parameters-CTCH-SetupRsp,  
id-PCH-ParametersItem-CTCH-ReconfRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstTDD,  
id-PCH-Information,  
~~id-PCPCH-Information,~~  
id-PICH-ParametersItem-CTCH-ReconfRqstFDD,  
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst,

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id-PDSCH-Information-Cell-SetupRqstFDD,  
id-PDSCH-Information-Cell-ReconfRqstFDD,  
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PDSCH-RL-ID,  
id-PDSCHSets-AddList-PSCH-ReconfRqst,  
id-PDSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PDSCHSets-ModifyList-PSCH-ReconfRqst,  
id-PICH-Information,  
id-PICH-Parameters-CTCH-ReconfRqstTDD,  
id-PICH-ParametersItem-CTCH-SetupRqstTDD,  
id-PowerAdjustmentType,  
id-Power-Local-Cell-Group-InformationItem-AuditRsp,  
id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd,  
id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd,  
id-Power-Local-Cell-Group-InformationList-AuditRsp,  
id-Power-Local-Cell-Group-InformationList-ResourceStatusInd,  
id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd,  
id-Power-Local-Cell-Group-ID,  
id-PRACH-Information,  
id-PRACHConstant,  
id-PRACH-ParametersItem-CTCH-SetupRqstTDD,  
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD,  
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCPICH-Information-Cell-SetupRqstFDD,  
id-Primary-CPICH-Usage-for-Channel-Estimation,  
id-PrimarySCH-Information-Cell-ReconfRqstFDD,  
id-PrimarySCH-Information-Cell-SetupRqstFDD,  
id-PrimaryScramblingCode,  
id-SCH-Information-Cell-ReconfRqstTDD,  
id-SCH-Information-Cell-SetupRqstTDD,  
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst,  
id-PUSCHConstant,  
id-PUSCHSets-AddList-PSCH-ReconfRqst,  
id-PUSCHSets-DeleteList-PSCH-ReconfRqst,  
id-PUSCHSets-ModifyList-PSCH-ReconfRqst,  
id-Qth-Parameter,  
id-RACH-Information,  
id-RACH-Parameters-CTCH-SetupRsp,  
id-RACH-ParametersItem-CTCH-SetupRqstFDD,  
id-RACH-ParameterItem-CTCH-SetupRqstTDD,  
id-ReferenceClockAvailability,  
id-ReferenceSFNoffset,  
id-ReportCharacteristics,  
id-Reporting-Object-RL-FailureInd,  
id-Reporting-Object-RL-RestoreInd,  
id-ResetIndicator,  
id-RL-ID,  
id-RL-InformationItem-DM-Rprt,  
id-RL-InformationItem-DM-Rqst,  
id-RL-InformationItem-DM-Rsp,

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id-RL-InformationItem-RL-AdditionRqstFDD,  
id-RL-informationItem-RL-DeletionRqst,  
id-RL-InformationItem-RL-FailureInd,  
id-RL-InformationItem-RL-PreemptRequiredInd,  
id-RL-InformationItem-RL-ReconfPrepFDD,  
id-RL-InformationItem-RL-ReconfRqstFDD,  
id-RL-InformationItem-RL-RestoreInd,  
id-RL-InformationItem-RL-SetupRqstFDD,  
id-RL-InformationList-RL-AdditionRqstFDD,  
id-RL-informationList-RL-DeletionRqst,  
id-RL-InformationList-RL-PreemptRequiredInd,  
id-RL-InformationList-RL-ReconfPrepFDD,  
id-RL-InformationList-RL-ReconfRqstFDD,  
id-RL-InformationList-RL-SetupRqstFDD,  
id-RL-InformationResponseItem-RL-AdditionRspFDD,  
id-RL-InformationResponseItem-RL-ReconfReady,  
id-RL-InformationResponseItem-RL-ReconfRsp,  
id-RL-InformationResponseItem-RL-SetupRspFDD,  
id-RL-InformationResponseList-RL-AdditionRspFDD,  
id-RL-InformationResponseList-RL-ReconfReady,  
id-RL-InformationResponseList-RL-ReconfRsp,  
id-RL-InformationResponseList-RL-SetupRspFDD,  
id-RL-InformationResponse-RL-AdditionRspTDD,  
id-RL-InformationResponse-RL-SetupRspTDD,  
id-RL-Information-RL-AdditionRqstTDD,  
id-RL-Information-RL-ReconfRqstTDD,  
id-RL-Information-RL-ReconfPrepTDD,  
id-RL-Information-RL-SetupRqstTDD,  
id-RL-ReconfigurationFailureItem-RL-ReconfFailure,  
id-RL-Set-InformationItem-DM-Rprt,  
id-RL-Set-InformationItem-DM-Rsp,  
id-RL-Set-InformationItem-RL-FailureInd,  
id-RL-Set-InformationItem-RL-RestoreInd,  
id-RL-Specific-DCH-Info,  
id-S-CCPCH-Information,  
id-S-CPICH-Information,  
id-SCH-Information,  
id-S-SCH-Information,  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD,  
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD,  
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD,  
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD,  
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD,  
id-Secondary-CPICH-Information-Change,  
id-SecondarySCH-Information-Cell-ReconfRqstFDD,  
id-SecondarySCH-Information-Cell-SetupRqstFDD,  
id-SegmentInformationListIE-SystemInfoUpdate,  
id-SFN,  
id-SFNReportingIndicator,  
id-ShutdownTimer,  
id-SignallingBearerRequestIndicator,

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id-SSDT-CellIDforEDSCHPC,  
id-Start-Of-Audit-Sequence-Indicator,  
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Synchronisation-Configuration-Cell-ReconfRqst,  
id-Synchronisation-Configuration-Cell-SetupRqst,  
id-SyncCase,  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,  
id-SyncFrameNumber,  
id-SynchronisationReportType,  
id-SynchronisationReportCharacteristics,  
id-SyncReportType-CellSyncReprtTDD,  
id-T-Cell,  
id-TargetCommunicationControlPortID,  
id-TFCI2-Bearer-Information-RL-SetupRqstFDD,  
id-TFCI2-BearerInformationResponse,  
id-TFCI2BearerRequestIndicator,  
id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD,  
id-Transmission-Gap-Pattern-Sequence-Information,  
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,  
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,  
id-timeslotInfo-CellSyncInitiationRqstTDD,  
id-TimeslotISCPInfo,  
id-TimingAdvanceApplied,  
id-TnlQos,  
id-TransmissionDiversityApplied,  
id-transportlayeraddress,  
id-Tstd-indicator,  
id-UARFCNforNt,  
id-UARFCNforNd,  
id-UARFCNforNu,  
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD,  
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,  
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,  
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationList-RL-SetupRqstTDD,  
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-Information-RL-ReconfPrepFDD,  
id-UL-DPCH-Information-RL-ReconfRqstFDD,  
id-UL-DPCH-Information-RL-SetupRqstFDD,  
id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD,  
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD,  
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD,

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id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD,  
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,  
id-USCH-Information-Add,  
id-USCH-Information-DeleteList-RL-ReconfPrepTDD,  
id-USCH-Information-ModifyList-RL-ReconfPrepTDD,  
id-USCH-InformationResponse,  
id-USCH-Information,  
id-USCH-RearrangeList-Bearer-RearrangeInd,  
id-DL-DPCH-LCR-Information-RL-SetupRqstTDD,  
id-DwPCH-LCR-Information ,  
id-DwPCH-LCR-InformationList-AuditRsp,  
id-DwPCH-LCR-Information-Cell-SetupRqstTDD,  
id-DwPCH-LCR-Information-Cell-ReconfRqstTDD,  
id-DwPCH-LCR-Information-ResourceStatusInd,  
id-maxFACH-Power-LCR-CTCH-SetupRqstTDD,  
id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD,  
id-FPACH-LCR-Information,  
id-FPACH-LCR-Information-AuditRsp,  
id-FPACH-LCR-InformationList-AuditRsp,  
id-FPACH-LCR-InformationList-ResourceStatusInd,  
id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD,  
id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD,  
id-PCCPCH-LCR-Information-Cell-SetupRqstTDD,  
id-PCH-Power-LCR-CTCH-SetupRqstTDD,  
id-PCH-Power-LCR-CTCH-ReconfRqstTDD,  
id-PICH-LCR-Parameters-CTCH-SetupRqstTDD,  
id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD,  
id-RL-InformationResponse-LCR-RL-SetupRspTDD ,  
id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD,  
id-TimeSlot ,  
id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD,  
id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD,  
id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD,  
id-TimeSlotLCR-CM-Rqst ,  
id-UL-DPCH-LCR-Information-RL-SetupRqstTDD,  
id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD,  
id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD,  
id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD,  
id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD,  
id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD,  
id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD,  
id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD,  
id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-LCR-InformationModify-AddList,  
id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD,  
id-UL-SIRTarget ,  
id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst ,  
id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst ,  
id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst ,  
id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst ,  
id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst ,

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id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst,  
id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst,  
id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst,  
id-PUSCH-Info-DM-Rqst,  
id-PUSCH-Info-DM-Rsp,  
id-PUSCH-Info-DM-Rprt,  
id-RL-InformationResponse-LCR-RL-AdditionRspTDD,  
id-IPDLParameter-Information-LCR-Cell-SetupRqstTDD,  
id-IPDLParameter-Information-LCR-Cell-ReconfRqstTDD,  
id-HS-PDSCH-HS-SCCH-MaxPower-PSCH-ReconfRqst,  
id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRqst,  
id-HS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst,  
id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRqst,  
id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst,  
id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst,  
id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst,  
id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst,  
id-SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD,  
id-SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD,  
id-SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD,  
id-SYNCDlCodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD,  
id-SYNCDlCodeIdMeasInfoList-CellSyncReconfRqstTDD,  
id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD,  
id-NSubCyclesPerCyclePeriod-CellSyncReconfRqstTDD,  
id-DwPCH-Power,  
id-AccumulatedClockupdate-CellSyncReprtTDD,  
id-HSDPA-Capability,  
id-HSDSCH-FDD-Information,  
id-HSDSCH-FDD-Information-Response,  
id-HSDSCH-Information-to-Modify,  
id-HSDSCH-Information-to-Modify-Unsynchronised,  
id-HSDSCH-MACdFlows-to-Add,  
id-HSDSCH-MACdFlows-to-Delete,  
id-HSDSCH-RearrangeList-Bearer-RearrangeInd,  
id-HSDSCH-Resources-Information-AuditRsp,  
id-HSDSCH-Resources-Information-ResourceStatusInd,  
id-HSDSCH-RNTI,  
id-HSDSCH-TDD-Information,  
id-HSDSCH-TDD-Information-Response,  
id-HSPDSCH-RL-ID,  
id-HSSICH-Info-DM-Rprt,  
id-HSSICH-Info-DM-Rqst,  
id-HSSICH-Info-DM-Rsp,  
id-PrimCCPCH-RSCP-DL-PC-RqstTDD,  
id-HSDSCH-FDD-Update-Information,  
id-HSDSCH-TDD-Update-Information,  
id-UL-Synchronisation-Parameters-LCR,  
id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD,  
id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD,  
id-CCTrCH-Maximum-DL-Power-RL-SetupRqstTDD,  
id-CCTrCH-Minimum-DL-Power-RL-SetupRqstTDD,  
id-CCTrCH-Maximum-DL-Power-RL-AdditionRqstTDD,  
id-CCTrCH-Minimum-DL-Power-RL-AdditionRqstTDD,



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id-CCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD,  
id-CCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD,  
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD,  
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD,  
id-Maximum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD,  
id-Minimum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD,  
id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD,  
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD,  
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRqstTDD,  
id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD,  
id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD,  
id-TDD-TPC-DownlinkStepSize-RL-AdditionRqstTDD,  
id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD,  
id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD,  
id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD,  
id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD,  
id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD,  
id-TimingAdjustmentValueLCR,  
id-PrimaryCCPCH-RSCP-Delta,

maxNrOfCCTrCHs,  
maxNrOfCellSyncBursts,  
maxNrOfCodes,  
~~maxNrOfCPCHs,~~  
maxNrOfDCHs,  
maxNrOfDLTSs,  
maxNrOfDLTSLCRs,  
maxNrOfDPCHs,  
maxNrOfDPCHLCRs,  
maxNrOfDSCHs,  
maxNrOfFACHs,  
maxNrOfRLs,  
maxNrOfRLs-1,  
maxNrOfRLs-2,  
maxNrOfRLSets,  
~~maxNrOfPCPCHs,~~  
maxNrOfPDSCHs,  
maxNrOfPUSCHs,  
maxNrOfPRACHLCRs,  
maxNrOfPDSCHSets,  
maxNrOfPUSCHSets,  
maxNrOfReceptsPerSyncFrame,  
maxNrOfSCCPCHs,  
maxNrOfSCCPCHLCRs,  
maxNrOfULTSs,  
maxNrOfULTSLCRs,  
maxNrOfUSCHs,  
~~maxAPSigNum,~~  
~~maxCPCHCell,~~  
maxFACHCell,  
maxFPACHCell,  
maxNoofLen,

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```
maxRACHCell,  
maxPCPCHCell,  
maxPRACHCell,  
maxSCCPCHCell,  
maxSCPICHCell,  
maxCellinNodeB,  
maxCCPinNodeB,  
maxCommunicationContext,  
maxLocalCellinNodeB,  
maxNrOfSlotFormatsPRACH,  
maxIB,  
maxIBSEG,  
maxNrOfHSSCCHs,  
maxNrOfHSSICHs,  
maxNrOfHSPDSCHs,  
maxNrOfSyncFramesLCR,  
maxNrOfReceptionsperSyncFrameLCR,  
maxNrOfSyncDLCodesLCR,  
maxNrOfMACdFlows  
FROM NBAP-Constants;
```

```

-- *****
--
-- COMMON TRANSPORT CHANNEL SETUP REQUEST FDD
--
-- *****

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

CommonTransportChannelSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonTransportChannelSetupRequestFDD-IEs NBAP-PROTOCOL-IEs ::= {
    { ID      id-C-ID                CRITICALITY reject          TYPE      C-ID                PRESENCE mandatory }|
    { ID      id-ConfigurationGenerationID  CRITICALITY reject          TYPE      ConfigurationGenerationID  PRESENCE mandatory }|
    { ID      id-CommonPhysicalChannelType-CTCH-SetupRqstFDD  CRITICALITY ignore         TYPE      CommonPhysicalChannelType-CTCH-SetupRqstFDD
    PRESENCE mandatory },
    ...
}

CommonPhysicalChannelType-CTCH-SetupRqstFDD ::= CHOICE {
    secondary-CCPCH-parameters      Secondary-CCPCH-CTCH-SetupRqstFDD,
    pRACH-parameters                PRACH-CTCH-SetupRqstFDD,
    notUsed-pCPCHes-parameters NULLPCPCH-CTCH-SetupRqstFDD,
    ...
}

Secondary-CCPCH-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    fdd-S-CCPCH-Offset              FDD-S-CCPCH-Offset,
    dl-ScramblingCode              DL-ScramblingCode    OPTIONAL,
    -- This IE shall be present if the PCH Parameters IE is not present
    fdd-DL-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    tFCS                            TFCS,
    secondary-CCPCH-SlotFormat      SecondaryCCPCH-SlotFormat,
    tFCI-Presence                   TFCI-Presence    OPTIONAL,
    -- This IE shall be present if the Secondary CCPCH Slot Format is set to any of the values from 8 to 17
    multiplexingPosition            MultiplexingPosition,
    powerOffsetInformation          PowerOffsetInformation-CTCH-SetupRqstFDD,
    sTTD-Indicator                  STTD-Indicator,
    fACH-Parameters                 FACH-ParametersList-CTCH-SetupRqstFDD    OPTIONAL,
    pCH-Parameters                  PCH-Parameters-CTCH-SetupRqstFDD        OPTIONAL,
    iE-Extensions                   ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs } }    OPTIONAL,
    ...
}

Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
}
PowerOffsetInformation-CTCH-SetupRqstFDD ::= SEQUENCE {
    p01-ForTFCl-Bits          PowerOffset,
    p03-ForPilotBits         PowerOffset,
    iE-Extensions            ProtocolExtensionContainer { { PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}
PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
FACH-ParametersList-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-SetupRqstFDD }}
FACH-ParametersListIEs-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersListIE-CTCH-SetupRqstFDD    CRITICALITY reject    TYPE FACH-ParametersListIE-CTCH-SetupRqstFDD PRESENCE mandatory }
}
FACH-ParametersListIE-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOFACHs)) OF FACH-ParametersItem-CTCH-SetupRqstFDD
FACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID    CommonTransportChannelID,
    transportFormatSet         TransportFormatSet,
    toAWS                       ToAWS,
    toAWE                       ToAWE,
    maxFACH-Power              DL-Power,
    iE-Extensions              ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}
FACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID    id-bindingID                CRITICALITY ignore    EXTENSION    BindingID                PRESENCE    optional }|
{ ID    id-transportlayeraddress    CRITICALITY ignore    EXTENSION    TransportLayerAddress        PRESENCE    optional },
    ...
}
PCH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-SetupRqstFDD }}
PCH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-ParametersItem-CTCH-SetupRqstFDD    CRITICALITY reject    TYPE PCH-ParametersItem-CTCH-SetupRqstFDD    PRESENCE mandatory }
}
PCH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID    CommonTransportChannelID,
    transportFormatSet         TransportFormatSet,
    toAWS                       ToAWS,
    toAWE                       ToAWE,
    pCH-Power                   DL-Power,
    pICH-Parameters            PICH-Parameters-CTCH-SetupRqstFDD,
    iE-Extensions              ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

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}

PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-bindingID CRITICALITY ignore EXTENSION BindingID PRESENCE optional }|
  { ID id-transportlayeraddress CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional },
  ...
}

PICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  pICH-Power PICH-Power,
  pICH-Mode PICH-Mode,
  sTTD-Indicator STTD-Indicator,
  iE-Extensions ProtocolExtensionContainer { { PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PRACH-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  scramblingCodeNumber ScramblingCodeNumber,
  tFCS TFCS,
  preambleSignatures PreambleSignatures,
  allowedSlotFormatInformationList-CTCH-SetupRqstFDD AllowedSlotFormatInformationList-CTCH-SetupRqstFDD,
  rACH-SubChannelNumbers RACH-SubChannelNumbers,
  ul-punctureLimit PunctureLimit,
  preambleThreshold PreambleThreshold,
  rACH-Parameters RACH-Parameters-CTCH-SetupRqstFDD,
  aICH-Parameters AICH-Parameters-CTCH-SetupRqstFDD,
  iE-Extensions ProtocolExtensionContainer { { PRACHItem-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

PRACHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

AllowedSlotFormatInformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1.. maxNrOfSlotFormatsPRACH)) OF AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD

AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
  rACHSlotFormat RACH-SlotFormat,
  iE-Extensions ProtocolExtensionContainer { { AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD-ExtIEs } }
  OPTIONAL,
  ...
}

AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```

}

RACH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container {{ RACH-ParametersIE-CTCH-SetupRqstFDD }}

RACH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-RACH-ParametersItem-CTCH-SetupRqstFDD   CRITICALITY reject   TYPE RACH-ParametersItem-CTCH-SetupRqstFDD   PRESENCE mandatory }
}

RACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonTransportChannelID          CommonTransportChannelID,
  transportFormatSet                TransportFormatSet,
  iE-Extensions                    ProtocolExtensionContainer { { RACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

RACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-bindingID                  CRITICALITY ignore      EXTENSION BindingID          PRESENCE optional }|
  { ID id-transportlayeraddress      CRITICALITY ignore      EXTENSION TransportLayerAddress PRESENCE optional },
  ...
}

AICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID          CommonPhysicalChannelID,
  aICH-TransmissionTiming          AICH-TransmissionTiming,
  fdd-dl-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
  aICH-Power                       AICH-Power,
  sTTD-Indicator                   STTD-Indicator,
  iE-Extensions                    ProtocolExtensionContainer { { AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

PCPCH-CTCH-SetupRqstFDD ::= SEQUENCE {
  ePCH-Parameters                  CPCH-Parameters-CTCH-SetupRqstFDD,
  iE-Extensions                    ProtocolExtensionContainer { { PCPCHItem-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

PCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CPCH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonTransportChannelID          CommonTransportChannelID,
  transportFormatSet                TransportFormatSet,
  aPPreambleScramblingCode          CPCHScramblingCodeNumber,
  eDPreambleScramblingCode          CPCHScramblingCodeNumber,
  tFCS                               TFCS,
  eDSignatures                      PreambleSignatures OPTIONAL,
  eDSubChannelNumbers               CDSubChannelNumbers OPTIONAL,


```

```

punctureLimit PunctureLimit,
ePCH-UL-DPCCH-SlotFormat CPCH-UL-DPCCH-SlotFormat,
uL-SIR UL-SIR,
initialDL-transmissionPower DL-Power,
maximumDLPower DL-Power,
minimumDLPower DL-Power,
pO2-ForTPC-Bits PowerOffset,
fDD-TPC-DownlinkStepSize FDD-TPC-DownlinkStepSize,
nStartMessage NStartMessage,
nEOT NEOT,
channel-Assignment-Indication Channel-Assignment-Indication,
ePCH-Allowed-Total-Rate CPCH-Allowed-Total-Rate,
pCPCHChannelInformation PCPCHChannelInformationList-CTCH-SetupRqstFDD,
vcAMMapping-Information VCAMMapping-InformationList-CTCH-SetupRqstFDD OPTIONAL,
this IE shall be present if the Channel Assignment Indication is set to "CA Active"
aP-AICH-Parameters AP-AICH-Parameters-CTCH-SetupRqstFDD,
eDCA-ICH-Parameters CDCA-ICH-Parameters-CTCH-SetupRqstFDD,
iE-Extensions ProtocolExtensionContainer { { CPCH-Parameters-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
...
}

CPCH-Parameters-CTCH-SetupRqstFDD-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-bindingID CRITICALITY ignore EXTENSION BindingID PRESENCE optional },
  { ID id-transportlayeraddress CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional },
  ...
}

PCPCHChannelInformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfPCPCHs)) OF PCPCHChannelInformationItem-CTCH-SetupRqstFDD

PCPCHChannelInformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  ePCHScramblingCodeNumber CPCHScramblingCodeNumber,
  dL-ScramblingCode DL-ScramblingCode,
  fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  pcp-Length PCP-Length,
  ucsm-Information UCSM-Information-CTCH-SetupRqstFDD OPTIONAL,
  this IE shall be present if the Channel Assignment Indication is equal to "CA Inactive"
  iE-Extensions ProtocolExtensionContainer { { PCPCHChannelInformationItem-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

PCPCHChannelInformationItem-CTCH-SetupRqstFDD-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

UCSM-Information-CTCH-SetupRqstFDD ::= SEQUENCE {
  minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength,
  nFmax NFmax,
  channelRequestParameters ChannelRequestParametersList-CTCH-SetupRqstFDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { UCSM-InformationItem-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

```

```

UCSM-InformationItem-CTCH-SetupRqstFDD-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ChannelRequestParametersList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxAPSigNum)) OF ChannelRequestParametersItem-CTCH-SetupRqstFDD

ChannelRequestParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    aPPreambleSignature AP PreambleSignature,
    aPSubChannelNumber AP SubChannelNumber OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { ChannelRequestParametersItem-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

ChannelRequestParametersItem-CTCH-SetupRqstFDD-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

VCAMMapping-InformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNoofLen)) OF VCAMMapping-InformationItem-CTCH-SetupRqstFDD

VCAMMapping-InformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength,
    nFmax NFmax,
    max-Number-of-PCPCHes Max-Number-of-PCPCHes,
    sFRequestParameters SFRequestParametersList-CTCH-SetupRqstFDD,
    iE-Extensions ProtocolExtensionContainer { { VCAMMapping-InformationItem-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

VCAMMapping-InformationItem-CTCH-SetupRqstFDD-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

SFRequestParametersList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxAPSigNum)) OF SFRequestParametersItem-CTCH-SetupRqstFDD

SFRequestParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    aPPreambleSignature AP PreambleSignature,
    aPSubChannelNumber AP SubChannelNumber OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { SFRequestParametersItem-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

SFRequestParametersItem-CTCH-SetupRqstFDD-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AP-AICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID CommonPhysicalChannelID,
    fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    aP-AICH-Power AICH-Power,
    eSICH-Power AICH-Power,
    sTTD-Indicator STTD-Indicator,
    iE-Extensions ProtocolExtensionContainer { { AP-AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

```



```
}  
AP-AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {  
    ...  
}  
  
EDCA-ICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {  
    commonPhysicalChannelID CommonPhysicalChannelID,  
    fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,  
    edca-ich-power AICH-Power,  
    sttd-indicator STTD-Indicator,  
    ie-extensions ProtocolExtensionContainer { { CDCA-ICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,  
    ...  
}  
  
EDCA-ICH-Parameters-CTCH-SetupRqstFDD-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {  
    ...  
}
```

```

-- *****
--
-- COMMON TRANSPORT CHANNEL SETUP RESPONSE
--
-- *****

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

CommonTransportChannelSetupResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersList-CTCH-SetupRsp    CRITICALITY ignore  TYPE FACH-CommonTransportChannel-InformationResponse  PRESENCE optional } |
    { ID id-PCH-Parameters-CTCH-SetupRsp        CRITICALITY ignore  TYPE CommonTransportChannel-InformationResponse  PRESENCE optional } |
    { ID id-RACH-Parameters-CTCH-SetupRsp       CRITICALITY ignore  TYPE CommonTransportChannel-InformationResponse  PRESENCE optional } |
    { ID id-CPCH-Parameters-CTCH-SetupRsp       CRITICALITY ignore  TYPE CommonTransportChannel-InformationResponse  PRESENCE optional } |
    { ID id-CriticalityDiagnostics              CRITICALITY ignore  TYPE CriticalityDiagnostics                      PRESENCE optional },
    ...
}

CommonTransportChannelSetupResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-CommonTransportChannel-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF CommonTransportChannel-InformationResponse

```

```

-- *****
--
-- COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST FDD
--
-- *****

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

CommonTransportChannelReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID                CRITICALITY reject TYPE C-ID                PRESENCE mandatory }|
    { ID id-ConfigurationGenerationID  CRITICALITY reject TYPE ConfigurationGenerationID  PRESENCE mandatory }|
    { ID id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD  CRITICALITY reject TYPE CommonPhysicalChannelType-CTCH-ReconfRqstFDD PRESENCE mandatory }|
},
...
}

CommonTransportChannelReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonPhysicalChannelType-CTCH-ReconfRqstFDD ::= CHOICE {
    secondary-CCPCH-parameters      Secondary-CCPCHList-CTCH-ReconfRqstFDD,
    pRACH-parameters                PRACHList-CTCH-ReconfRqstFDD,
    notUsed-cPCH-parameters      NULLCPCHList-CTCH-ReconfRqstFDD,
    ...
}

Secondary-CCPCHList-CTCH-ReconfRqstFDD ::= SEQUENCE {
    fACH-ParametersList-CTCH-ReconfRqstFDD  FACH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
    pCH-Parameters-CTCH-ReconfRqstFDD      PCH-Parameters-CTCH-ReconfRqstFDD     OPTIONAL,
    pICH-Parameters-CTCH-ReconfRqstFDD     PICH-Parameters-CTCH-ReconfRqstFDD    OPTIONAL,
    iE-Extensions                          ProtocolExtensionContainer { { Secondary-CCPCH-CTCH-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

Secondary-CCPCH-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-ReconfRqstFDD }}

FACH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersListIE-CTCH-ReconfRqstFDD  CRITICALITY reject TYPE FACH-ParametersListIE-CTCH-ReconfRqstFDD  PRESENCE mandatory }
}

FACH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxFACHCell)) OF FACH-ParametersItem-CTCH-ReconfRqstFDD

FACH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {

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```
commonTransportChannelID      CommonTransportChannelID,
maxFACH-Power                 DL-Power          OPTIONAL,
toAWS                         ToAWS             OPTIONAL,
toAWE                         ToAWE             OPTIONAL,
iE-Extensions                 ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
...
}

FACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PCH-Parameters-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-ReconfRqstFDD }}

PCH-ParametersIE-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
{ ID id-PCH-ParametersItem-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PCH-ParametersItem-CTCH-ReconfRqstFDD PRESENCE mandatory }
}

PCH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
commonTransportChannelID      CommonTransportChannelID,
pCH-Power                     DL-Power          OPTIONAL,
toAWS                         ToAWS             OPTIONAL,
toAWE                         ToAWE             OPTIONAL,
iE-Extensions                 ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
...
}

PCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PICH-Parameters-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ PICH-ParametersIE-CTCH-ReconfRqstFDD }}

PICH-ParametersIE-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
{ ID id-PICH-ParametersItem-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PICH-ParametersItem-CTCH-ReconfRqstFDD PRESENCE mandatory }
}

PICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
commonPhysicalChannelID      CommonPhysicalChannelID,
pICH-Power                    PICH-Power       OPTIONAL,
iE-Extensions                 ProtocolExtensionContainer { { PICH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
...
}

PICH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PRACHList-CTCH-ReconfRqstFDD ::= SEQUENCE {
pRACH-ParametersList-CTCH-ReconfRqstFDD PRACH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
aICH-ParametersList-CTCH-ReconfRqstFDD AICH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
iE-Extensions                 ProtocolExtensionContainer { { PRACH-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
...
}
```

```

}

PRACH-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PRACH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ PRACH-ParametersListIEs-CTCH-ReconfRqstFDD }}

PRACH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD    CRITICALITY reject    TYPE PRACH-ParametersListIE-CTCH-ReconfRqstFDD    PRESENCE mandatory }
}

PRACH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF PRACH-ParametersItem-CTCH-ReconfRqstFDD

PRACH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    preambleSignatures                PreambleSignatures                                OPTIONAL,
    allowedSlotFormatInformationList-CTCH-ReconfRqstFDD AllowedSlotFormatInformationList-CTCH-ReconfRqstFDD    OPTIONAL,
    rACH-SubChannelNumbers            RACH-SubChannelNumbers                                OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { { PRACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

PRACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AllowedSlotFormatInformationList-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1.. maxNrOfSlotFormatsPRACH)) OF AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD

AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    rACH-SlotFormat                  RACH-SlotFormat,
    iE-Extensions                    ProtocolExtensionContainer { { AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD-ExtIEs } }
    OPTIONAL,
    ...
}

AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ AICH-ParametersListIEs-CTCH-ReconfRqstFDD }}

AICH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-AICH-ParametersListIE-CTCH-ReconfRqstFDD    CRITICALITY reject    TYPE AICH-ParametersListIE-CTCH-ReconfRqstFDD    PRESENCE mandatory }
}

AICH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF AICH-ParametersItem-CTCH-ReconfRqstFDD

AICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    aICH-Power                       AICH-Power                                OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { { AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs } }    OPTIONAL,
}

```

```

}
...
AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

CPCHList-CTCH-ReconfRqstFDD ::= SEQUENCE {
  cPCH-ParametersList-CTCH-ReconfRqstFDD CPCH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
  aP-AICH-ParametersList-CTCH-ReconfRqstFDD AP-AICH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
  cDCA-ICH-ParametersList-CTCH-ReconfRqstFDD CDCA-ICH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { CPCHListItem-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

CPCHListItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CPCH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container { { CPCH-ParametersListIEs-CTCH-ReconfRqstFDD } }

CPCH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE CPCH-ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory }
}

CPCH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCPCHs)) OF CPCH-ParametersItem-CTCH-ReconfRqstFDD

CPCH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  uL-SIR UL-SIR OPTIONAL,
  initialDL-transmissionPower DL-Power OPTIONAL,
  maximumDLPower DL-Power OPTIONAL,
  minimumDLPower DL-Power OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { CPCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

CPCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

AP-AICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container { { AP-AICH-ParametersListIEs-CTCH-ReconfRqstFDD } }

AP-AICH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory }
}

AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCPCHs)) OF AP-AICH-ParametersItem-CTCH-ReconfRqstFDD

AP-AICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  aP-AICH-Power AICH-Power OPTIONAL,
  eSICH-Power AICH-Power OPTIONAL,

```

```


iE-Extensions
ProtocolExtensionContainer { { AP-AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
...
}
AP-AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
...
}
CDCA-ICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container ({ CDCA-ICH-ParametersListIEs-CTCH-ReconfRqstFDD })
CDCA-ICH-ParametersListIEs-CTCH-ReconfRqstFDD-NBAP-PROTOCOL-IES ::= {
{ ID-id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY-reject TYPE-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD PRESENCE-mandatory-
}
}
CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCPCHs)) OF CDCA-ICH-ParametersItem-CTCH-ReconfRqstFDD
CDCA-ICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
commonPhysicalChannelID CommonPhysicalChannelID,
eDCA-ICH-Power AICH-Power OPTIONAL,
iE-Extensions ProtocolExtensionContainer { { CDCA-ICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
...
}
CDCA-ICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
...
}


```

```

-- *****
--
-- AUDIT RESPONSE
--
-- *****

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

AuditResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-End-Of-Audit-Sequence-Indicator          CRITICALITY ignore TYPE End-Of-Audit-Sequence-Indicator          PRESENCE mandatory } |
    { ID id-Cell-InformationList-AuditRsp           CRITICALITY ignore TYPE Cell-InformationList-AuditRsp           PRESENCE optional } |
    { ID id-CCP-InformationList-AuditRsp            CRITICALITY ignore TYPE CCP-InformationList-AuditRsp            PRESENCE optional } |
    -- CCP (Communication Control Port) --
    { ID id-Local-Cell-InformationList-AuditRsp      CRITICALITY ignore TYPE Local-Cell-InformationList-AuditRsp      PRESENCE optional } |
    { ID id-Local-Cell-Group-InformationList-AuditRsp CRITICALITY ignore TYPE Local-Cell-Group-InformationList-AuditRsp PRESENCE optional } |
    { ID id-CriticalityDiagnostics                  CRITICALITY ignore TYPE CriticalityDiagnostics                  PRESENCE optional } |
    ...
}

AuditResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Power-Local-Cell-Group-InformationList-AuditRsp CRITICALITY ignore EXTENSION Power-Local-Cell-Group-InformationList-AuditRsp PRESENCE optional },
    ...
}

Cell-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ Cell-InformationItemIE-AuditRsp}}

Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-Cell-InformationItem-AuditRsp          CRITICALITY ignore          TYPE Cell-InformationItem-AuditRsp          PRESENCE optional }
}

Cell-InformationItem-AuditRsp ::= SEQUENCE {
    c-ID,
    configurationGenerationID          ConfigurationGenerationID,
    resourceOperationalState           ResourceOperationalState,
    availabilityStatus                 AvailabilityStatus,
    local-Cell-ID                      Local-Cell-ID,
    primary-SCH-Information             P-SCH-Information-AuditRsp          OPTIONAL,
    secondary-SCH-Information           S-SCH-Information-AuditRsp          OPTIONAL,
    primary-CPICH-Information           P-CPICH-Information-AuditRsp        OPTIONAL,
    secondary-CPICH-InformationList     S-CPICH-InformationList-AuditRsp    OPTIONAL,
    primary-CCPCH-Information           P-CCPCH-Information-AuditRsp        OPTIONAL,
    bch-Information                     BCH-Information-AuditRsp            OPTIONAL,
    secondary-CCPCH-InformationList     S-CCPCH-InformationList-AuditRsp    OPTIONAL,
    pch-Information                     PCH-Information-AuditRsp            OPTIONAL,
    pich-Information                    PICH-Information-AuditRsp           OPTIONAL,
    fach-InformationList                FACH-InformationList-AuditRsp       OPTIONAL,
}

```



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```
pRACH-InformationList          PRACH-InformationList-AuditRsp          OPTIONAL,
rACH-InformationList           RACH-InformationList-AuditRsp          OPTIONAL,
aICH-InformationList           AICH-InformationList-AuditRsp          OPTIONAL,
notUsed-1-pCPCH-InformationList NULLPCPCH-InformationList-AuditRsp      OPTIONAL,
notUsed-2-cPCH-InformationList NULLCPCH-InformationList-AuditRsp      OPTIONAL,
notUsed-3-aP-AICH-InformationList NULLAP-AICH-InformationList-AuditRsp    OPTIONAL,
notUsed-4-cDCA-ICH-InformationList NULLCPCA-ICH-InformationList-AuditRsp  OPTIONAL,
sSCH-Information               SCH-Information-AuditRsp               OPTIONAL,
iE-Extensions                  ProtocolExtensionContainer { { Cell-InformationItem-AuditRsp-ExtIEs } }  OPTIONAL,
...
}

Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-FPACH-LCR-InformationList-AuditRsp          CRITICALITY ignore  EXTENSION FPACH-LCR-InformationList-AuditRsp          PRESENCE optional } |
  -- Applicable to 1.28Mcps TDD only
  { ID id-DwPCH-LCR-InformationList-AuditRsp          CRITICALITY ignore  EXTENSION Common-PhysicalChannel-Status-Information PRESENCE optional } |
  -- Applicable to 1.28Mcps TDD only
  { ID id-HSDSCH-Resources-Information-AuditRsp       CRITICALITY ignore  EXTENSION HS-DSCH-Resources-Information-AuditRsp       PRESENCE optional },
  ...
}

P-SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-SCH-InformationIE-AuditRsp }}

P-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-P-SCH-Information          CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information          PRESENCE mandatory }
}

S-SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ S-SCH-InformationIE-AuditRsp }}

S-SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-S-SCH-Information          CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information          PRESENCE mandatory }
}

P-CPICH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-CPICH-InformationIE-AuditRsp }}

P-CPICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-P-CPICH-Information          CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information          PRESENCE mandatory }
}

S-CPICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container {{ S-CPICH-InformationItemIE-AuditRsp }}

S-CPICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-S-CPICH-Information          CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information          PRESENCE mandatory }
}

P-CCPCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ P-CCPCH-InformationIE-AuditRsp }}

P-CCPCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-P-CCPCH-Information          CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information          PRESENCE mandatory }
}

BCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ BCH-InformationIE-AuditRsp }}
```

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```
BCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-BCH-Information  CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information          PRESENCE mandatory }
}

S-CCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-AuditRsp }}

S-CCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-S-CCPCH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information          PRESENCE mandatory }
}

PCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ PCH-InformationIE-AuditRsp }}

PCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-Information  CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information          PRESENCE mandatory }
}

PICH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ PICH-InformationIE-AuditRsp }}

PICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information          PRESENCE mandatory }
}

FACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Single-Container {{ FACH-InformationItemIE-AuditRsp }}

FACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-Information  CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information          PRESENCE mandatory }
}

PRACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-InformationItemIE-AuditRsp }}

PRACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PRACH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information          PRESENCE mandatory }
}

RACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF ProtocolIE-Single-Container {{ RACH-InformationItemIE-AuditRsp }}

RACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-RACH-Information  CRITICALITY ignore  TYPE Common-TransportChannel-Status-Information          PRESENCE mandatory }
}

AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ AICH-InformationItemIE-AuditRsp }}

AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-AICH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information          PRESENCE mandatory }
}

PCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPCPCHCell)) OF ProtocolIE-Single-Container {{ PCPCH-InformationItemIE-AuditRsp }}

PCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PCPCH-Information  CRITICALITY ignore  TYPE Common-PhysicalChannel-Status-Information          PRESENCE optional }
}

CPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ CPCH-InformationItemIE-AuditRsp }}
```

```

CPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-CPCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE optional }
}

AP-AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ AP-AICH-InformationItemIE-AuditRsp }}

AP-AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-AP-AICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

CDCA-ICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ CDCA-ICH-InformationItemIE-AuditRsp }}

CDCA-ICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-CDCA-ICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ SCH-InformationIE-AuditRsp }}

SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

CCP-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Single-Container {{ CCP-InformationItemIE-AuditRsp }}

CCP-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-CCP-InformationItem-AuditRsp CRITICALITY ignore TYPE CCP-InformationItem-AuditRsp PRESENCE mandatory }
}

CCP-InformationItem-AuditRsp ::= SEQUENCE {
  communicationControlPortID CommunicationControlPortID,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  iE-Extensions ProtocolExtensionContainer {{ CCP-InformationItem-AuditRsp-ExtIEs }} OPTIONAL,
  ...
}

CCP-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

FPACH-LCR-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFPACHCell)) OF ProtocolIE-Single-Container {{ FPACH-LCR-InformationItemIE-AuditRsp }}

FPACH-LCR-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-FPACH-LCR-Information-AuditRsp CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

HS-DSCH-Resources-Information-AuditRsp ::= SEQUENCE {
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  iE-Extensions ProtocolExtensionContainer {{ HS-DSCH-Resources-Information-AuditRsp-ExtIEs }} OPTIONAL,
  ...
}

```

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```
HS-DSCH-Resources-Information-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Local-Cell-InformationList-AuditRsp ::=SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationItemIE-
AuditRsp }}

Local-Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-InformationItem-AuditRsp      CRITICALITY ignore   TYPE Local-Cell-InformationItem-AuditRsp      PRESENCE mandatory}
}

Local-Cell-InformationItem-AuditRsp ::= SEQUENCE {
    local-Cell-ID                               Local-Cell-ID,
    dl-or-global-capacityCredit                 DL-or-Global-CapacityCredit,
    ul-capacityCredit                           UL-CapacityCredit                               OPTIONAL,
    commonChannelsCapacityConsumptionLaw       CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw     DedicatedChannelsCapacityConsumptionLaw,
    maximumDL-PowerCapability                   MaximumDL-PowerCapability                       OPTIONAL,
    minSpreadingFactor                          MinSpreadingFactor                             OPTIONAL,
    minimumDL-PowerCapability                   MinimumDL-PowerCapability                       OPTIONAL,
    local-Cell-Group-ID                         Local-Cell-ID                                  OPTIONAL,
    iE-Extensions                              ProtocolExtensionContainer {{ Local-Cell-InformationItem-AuditRsp-ExtIEs}}  OPTIONAL,
    ...
}

Local-Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-ReferenceClockAvailability          CRITICALITY ignore   EXTENSION ReferenceClockAvailability          PRESENCE optional }|
    { ID id-Power-Local-Cell-Group-ID          CRITICALITY ignore   EXTENSION Local-Cell-ID                      PRESENCE optional }|
    { ID id-HSDPA-Capability                   CRITICALITY ignore   EXTENSION HSDPA-Capability                   PRESENCE optional },
    ...
}

Local-Cell-Group-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-
InformationItemIE-AuditRsp }}

Local-Cell-Group-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-Group-InformationItem-AuditRsp  CRITICALITY ignore   TYPE Local-Cell-Group-InformationItem-AuditRsp  PRESENCE mandatory}
}

Local-Cell-Group-InformationItem-AuditRsp ::= SEQUENCE {
    local-Cell-Group-ID                         Local-Cell-ID,
    dl-or-global-capacityCredit                 DL-or-Global-CapacityCredit,
    ul-capacityCredit                           UL-CapacityCredit                               OPTIONAL,
    commonChannelsCapacityConsumptionLaw       CommonChannelsCapacityConsumptionLaw,
    dedicatedChannelsCapacityConsumptionLaw     DedicatedChannelsCapacityConsumptionLaw,
    iE-Extensions                              ProtocolExtensionContainer {{ Local-Cell-Group-InformationItem-AuditRsp-ExtIEs}}  OPTIONAL,
    ...
}

Local-Cell-Group-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

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```
Power-Local-Cell-Group-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Power-Local-Cell-Group-InformationItemIE-AuditRsp }}
```

```
Power-Local-Cell-Group-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {  
  { ID      id-Power-Local-Cell-Group-InformationItem-AuditRsp      CRITICALITY      ignore      TYPE      Power-Local-Cell-Group-InformationItem-AuditRsp      PRESENCE      mandatory}  
}
```

```
Power-Local-Cell-Group-InformationItem-AuditRsp ::= SEQUENCE {  
  power-Local-Cell-Group-ID      Local-Cell-ID,  
  maximumDL-PowerCapability      MaximumDL-PowerCapability,  
  iE-Extensions      ProtocolExtensionContainer {{ Power-Local-Cell-Group-InformationItem-AuditRsp-ExtIEs}}      OPTIONAL,  
  ...  
}
```

```
Power-Local-Cell-Group-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
  ...  
}
```

```

-- *****
--
-- COMMON MEASUREMENT INITIATION REQUEST
--
-- *****

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

CommonMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-MeasurementID                CRITICALITY reject TYPE MeasurementID                PRESENCE mandatory }|
    { ID id-CommonMeasurementObjectType-CM-Rqst    CRITICALITY reject TYPE CommonMeasurementObjectType-CM-Rqst    PRESENCE mandatory }|
    { ID id-CommonMeasurementType            CRITICALITY reject TYPE CommonMeasurementType            PRESENCE mandatory }|
    { ID id-MeasurementFilterCoefficient        CRITICALITY reject TYPE MeasurementFilterCoefficient        PRESENCE optional }|
    { ID id-ReportCharacteristics             CRITICALITY reject TYPE ReportCharacteristics             PRESENCE mandatory }|
    { ID id-SFNReportingIndicator             CRITICALITY reject TYPE SFNReportingIndicator             PRESENCE mandatory }|
    { ID id-SFN                              CRITICALITY reject TYPE SFN                              PRESENCE optional },
    ...
}

CommonMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-CommonMeasurementAccuracy          CRITICALITY reject          EXTENSION CommonMeasurementAccuracy          PRESENCE optional},
    ...
}

CommonMeasurementObjectType-CM-Rqst ::= CHOICE {
    cell                Cell-CM-Rqst,
    rACH                RACH-CM-Rqst,
    notUsed-cPCH        NULLCPCH-CM-Rqst,
    ...
}

Cell-CM-Rqst ::= SEQUENCE {
    c-ID                C-ID,
    timeSlot            TimeSlot    OPTIONAL,    -- Applicable to 3.84Mcps TDD only
    iE-Extensions       ProtocolExtensionContainer    {{ CellItem-CM-Rqst-ExtIEs}}    OPTIONAL,
    ...
}

CellItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-TimeSlotLCR-CM-Rqst            CRITICALITY reject    EXTENSION TimeSlotLCR            PRESENCE optional }|
    -- Applicable to 1.28Mcps TDD only
    {ID id-NeighbouringCellMeasurementInformation    CRITICALITY ignore    EXTENSION NeighbouringCellMeasurementInformation    PRESENCE optional },
    ...
}

RACH-CM-Rqst ::= SEQUENCE {
    c-ID                C-ID,

```

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```

commonTransportChannelID      CommonTransportChannelID,
iE-Extensions                 ProtocolExtensionContainer { { RACHItem-CM-Rqst-ExtIEs } }
...
}

RACHItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

CPCH-CM-Rqst ::= SEQUENCE {
  c-ID                        C-ID,
  commonTransportChannelID    CommonTransportChannelID,
  spreadingfactor             MinUL_ChannelisationCodeLength OPTIONAL,
  iE-Extensions              ProtocolExtensionContainer { { CPCHItem-CM-Rqst-ExtIEs } } OPTIONAL,
  ...
}

CPCHItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- COMMON MEASUREMENT INITIATION RESPONSE
--
-- *****

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

CommonMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-MeasurementID          CRITICALITY ignore      TYPE MeasurementID          PRESENCE mandatory }|
  { ID id-CommonMeasurementObjectType-CM-Rsp  CRITICALITY ignore      TYPE CommonMeasurementObjectType-CM-Rsp  PRESENCE optional }|
  { ID id-SFN                    CRITICALITY ignore      TYPE SFN                      PRESENCE optional }|
  { ID id-CriticalityDiagnostics  CRITICALITY ignore      TYPE CriticalityDiagnostics  PRESENCE optional },
  ...
}

CommonMeasurementInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  {ID id-CommonMeasurementAccuracy          CRITICALITY ignore      EXTENSION CommonMeasurementAccuracy          PRESENCE optional},
  ...
}

CommonMeasurementObjectType-CM-Rsp ::= CHOICE {
  cell          Cell-CM-Rsp,
  rACH          RACH-CM-Rsp,
  notUsed-cPCH NULLCPCH-CM-Rsp,
  ...
}

```

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```

Cell-CM-Rsp ::= SEQUENCE {
  commonMeasurementValue      CommonMeasurementValue,
  iE-Extensions                ProtocolExtensionContainer { { CellItem-CM-Rsp-ExtIEs} }      OPTIONAL,
  ...
}

CellItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RACH-CM-Rsp ::= SEQUENCE {
  commonMeasurementValue      CommonMeasurementValue,
  iE-Extensions                ProtocolExtensionContainer { { RACHItem-CM-Rsp-ExtIEs} }      OPTIONAL,
  ...
}

RACHItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CPCH-CM-Rsp ::= SEQUENCE {
  commonMeasurementValue      CommonMeasurementValue,
  iE-Extensions                ProtocolExtensionContainer { { CPCHItem-CM-Rsp-ExtIEs} }      OPTIONAL,
  ...
}

CPCHItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

-- *****
--
-- COMMON MEASUREMENT INITIATION FAILURE
--
-- *****

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

CommonMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
  { ID      id-MeasurementID      CRITICALITY  ignore      TYPE      MeasurementID      PRESENCE mandatory }|
  { ID      id-Cause              CRITICALITY  ignore      TYPE      Cause              PRESENCE mandatory }|
  { ID      id-CriticalityDiagnostics CRITICALITY  ignore      TYPE      CriticalityDiagnostics PRESENCE optional },
  ...
}

CommonMeasurementInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```



```

-- *****
--
-- COMMON MEASUREMENT REPORT
--
-- *****

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

CommonMeasurementReport-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-MeasurementID          CRITICALITY ignore          TYPE MeasurementID          PRESENCE mandatory } |
    { ID id-CommonMeasurementObjectType-CM-Rprt    CRITICALITY ignore          TYPE CommonMeasurementObjectType-CM-Rprt    PRESENCE mandatory } |
    { ID id-SFN                    CRITICALITY ignore          TYPE SFN                    PRESENCE optional },
    ...
}

CommonMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonMeasurementObjectType-CM-Rprt ::= CHOICE {
    cell                Cell-CM-Rprt,
    rACH                RACH-CM-Rprt,
    notUsed-cPCH    NULLcPCH-CM-Rprt,
    ...
}

Cell-CM-Rprt ::= SEQUENCE {
    commonMeasurementValueInformation    CommonMeasurementValueInformation,
    iE-Extensions                        ProtocolExtensionContainer {{ CellItem-CM-Rprt-ExtIEs }}    OPTIONAL,
    ...
}

CellItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

RACH-CM-Rprt ::= SEQUENCE {
    commonMeasurementValueInformation    CommonMeasurementValueInformation,
    iE-Extensions                        ProtocolExtensionContainer {{ RACHItem-CM-Rprt-ExtIEs }}    OPTIONAL,
    ...
}

RACHItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

cPCH-CM-Rprt ::= SEQUENCE {

```

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```
commonMeasurementValueInformation CommonMeasurementValueInformation,  
iE-Extensions ProtocolExtensionContainer {{ CPCHItem CM-Rprt-ExtIEs }} OPTIONAL,  
...  
}  
  
CPCHItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
...  
}
```

```

-- *****
--
-- RESOURCE STATUS INDICATION
--
-- *****

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

ResourceStatusIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-IndicationType-ResourceStatusInd    CRITICALITY ignore    TYPE IndicationType-ResourceStatusInd    PRESENCE mandatory }|
    { ID id-Cause                                CRITICALITY ignore    TYPE Cause                                PRESENCE optional },
    ...
}

ResourceStatusIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

IndicationType-ResourceStatusInd ::= CHOICE {
    no-Failure                No-Failure-ResourceStatusInd,
    serviceImpacting          ServiceImpacting-ResourceStatusInd,
    ...
}

No-Failure-ResourceStatusInd ::= SEQUENCE {
    local-Cell-InformationList    Local-Cell-InformationList-ResourceStatusInd,
    local-Cell-Group-InformationList    Local-Cell-Group-InformationList-ResourceStatusInd    OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { { No-FailureItem-ResourceStatusInd-ExtIEs } }    OPTIONAL,
    ...
}

No-FailureItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Power-Local-Cell-Group-InformationList-ResourceStatusInd    CRITICALITY    ignore    EXTENSION    Power-Local-
Cell-Group-InformationList-ResourceStatusInd    PRESENCE    optional    },
    ...
}

Local-Cell-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-
InformationItemIE-ResourceStatusInd }}

Local-Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-InformationItem-ResourceStatusInd    CRITICALITY ignore    TYPE Local-Cell-InformationItem-ResourceStatusInd    PRESENCE
mandatory }
}

Local-Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
    local-CellID                Local-Cell-ID,
    addorDeleteIndicator        AddorDeleteIndicator,
}

```

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```
dl-or-global-capacityCredit          DL-or-Global-CapacityCredit          OPTIONAL,
-- This IE shall be present if AddorDeleteIndicator IE is set to "add"
ul-capacityCredit                     UL-CapacityCredit                     OPTIONAL,
commonChannelsCapacityConsumptionLaw  CommonChannelsCapacityConsumptionLaw  OPTIONAL,
-- This IE shall be present if AddorDeleteIndicator IE is set to "add"
dedicatedChannelsCapacityConsumptionLaw  DedicatedChannelsCapacityConsumptionLaw  OPTIONAL,
-- This IE shall be present if AddorDeleteIndicator IE is set to "add"
maximumDL-PowerCapability              MaximumDL-PowerCapability              OPTIONAL,
-- This IE shall be present if AddorDeleteIndicator IE is set to "add"
minSpreadingFactor                    MinSpreadingFactor                    OPTIONAL,
-- This IE shall be present if AddorDeleteIndicator IE is set to "add"
minimumDL-PowerCapability              MinimumDL-PowerCapability              OPTIONAL,
-- This IE shall be present if AddorDeleteIndicator IE is set to "add"
local-Cell-Group-ID                   Local-Cell-ID                           OPTIONAL,
iE-Extensions                          ProtocolExtensionContainer { { Local-Cell-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
...
}

Local-Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-ReferenceClockAvailability CRITICALITY ignore EXTENSION ReferenceClockAvailability PRESENCE optional } |
  -- This IE shall be present if AddorDeleteIndicator IE is set to "add" and the Local Cell is related to a TDD cell
  { ID id-Power-Local-Cell-Group-ID CRITICALITY ignore EXTENSION Local-Cell-ID PRESENCE optional } |
  { ID id-HSDPA-Capability CRITICALITY ignore EXTENSION HSDPA-Capability PRESENCE optional },
  ...
}

Local-Cell-Group-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-InformationItemIE-ResourceStatusInd }}

Local-Cell-Group-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-Local-Cell-Group-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Local-Cell-Group-InformationItem-ResourceStatusInd PRESENCE mandatory }
}

Local-Cell-Group-InformationItem-ResourceStatusInd ::= SEQUENCE {
  local-Cell-Group-ID Local-Cell-ID,
  dl-or-global-capacityCredit DL-or-Global-CapacityCredit,
  ul-capacityCredit UL-CapacityCredit OPTIONAL,
  commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw,
  dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw,
  iE-Extensions ProtocolExtensionContainer { { Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
  ...
}

Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Power-Local-Cell-Group-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Power-Local-Cell-Group-InformationItemIE-ResourceStatusInd }}

Power-Local-Cell-Group-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
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```
{ ID id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Power-Local-Cell-Group-InformationItem-ResourceStatusInd PRESENCE mandatory }
}

Power-Local-Cell-Group-InformationItem-ResourceStatusInd ::= SEQUENCE {
    power-Local-Cell-Group-ID Local-Cell-ID,
    maximumDL-PowerCapability MaximumDL-PowerCapability,
    iE-Extensions ProtocolExtensionContainer { { Power-Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs } }
    OPTIONAL,
    ...
}

Power-Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ServiceImpacting-ResourceStatusInd ::= SEQUENCE {
    local-Cell-InformationList Local-Cell-InformationList2-ResourceStatusInd OPTIONAL,
    local-Cell-Group-InformationList Local-Cell-Group-InformationList2-ResourceStatusInd OPTIONAL,
    cCP-InformationList CCP-InformationList-ResourceStatusInd OPTIONAL,
    cell-InformationList Cell-InformationList-ResourceStatusInd OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { ServiceImpactingItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

ServiceImpactingItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd CRITICALITY ignore EXTENSION Power-Local-Cell-Group-InformationList2-ResourceStatusInd PRESENCE optional },
    ...
}

Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationItemIE2-ResourceStatusInd }}

Local-Cell-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-InformationItem2-ResourceStatusInd CRITICALITY ignore TYPE Local-Cell-InformationItem2-ResourceStatusInd PRESENCE mandatory }
}

Local-Cell-InformationItem2-ResourceStatusInd ::= SEQUENCE {
    local-Cell-ID Local-Cell-ID,
    dl-or-global-capacityCredit DL-or-Global-CapacityCredit OPTIONAL,
    ul-capacityCredit UL-CapacityCredit OPTIONAL,
    commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw OPTIONAL,
    dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw OPTIONAL,
    maximum-DL-PowerCapability MaximumDL-PowerCapability OPTIONAL,
    minSpreadingFactor MinSpreadingFactor OPTIONAL,
    minimumDL-PowerCapability MinimumDL-PowerCapability OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
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```
{ ID id-ReferenceClockAvailability CRITICALITY ignore EXTENSION ReferenceClockAvailability PRESENCE optional }|
{ ID id-HSDPA-Capability CRITICALITY ignore EXTENSION HSDPA-Capability PRESENCE optional },
...
}

Local-Cell-Group-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-
InformationItemIE2-ResourceStatusInd }}

Local-Cell-Group-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-Local-Cell-Group-InformationItem2-ResourceStatusInd CRITICALITY ignore TYPE Local-Cell-Group-InformationItem2-ResourceStatusInd
  PRESENCE mandatory }
}

Local-Cell-Group-InformationItem2-ResourceStatusInd ::= SEQUENCE {
  local-Cell-Group-ID Local-Cell-ID,
  dl-or-global-capacityCredit DL-or-Global-CapacityCredit OPTIONAL,
  ul-capacityCredit UL-CapacityCredit OPTIONAL,
  commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw OPTIONAL,
  dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs } } OPTIONAL,
  ...
}

Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Power-Local-Cell-Group-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Power-Local-
Cell-Group-InformationItemIE2-ResourceStatusInd }}

Power-Local-Cell-Group-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd CRITICALITY ignore TYPE Power-Local-Cell-Group-InformationItem2-
ResourceStatusInd PRESENCE mandatory }
}

Power-Local-Cell-Group-InformationItem2-ResourceStatusInd ::= SEQUENCE {
  power-Local-Cell-Group-ID Local-Cell-ID,
  maximumDL-PowerCapability MaximumDL-PowerCapability,
  iE-Extensions ProtocolExtensionContainer { { Power-Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs } }
  OPTIONAL,
  ...
}

Power-Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CCP-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Single-Container {{ CCP-InformationItemIE-
ResourceStatusInd }}

CCP-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-CCP-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE CCP-InformationItem-ResourceStatusInd PRESENCE mandatory }
}
}
```

```

CCP-InformationItem-ResourceStatusInd ::= SEQUENCE {
    communicationControlPortID      CommunicationControlPortID,
    resourceOperationalState        ResourceOperationalState,
    availabilityStatus              AvailabilityStatus,
    iE-Extensions                   ProtocolExtensionContainer { { CCP-InformationItem-ResourceStatusInd-ExtIEs} }    OPTIONAL,
    ...
}

CCP-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Cell-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ Cell-InformationItemIE-ResourceStatusInd }}

Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Cell-InformationItem-ResourceStatusInd    CRITICALITY ignore TYPE Cell-InformationItem-ResourceStatusInd    PRESENCE mandatory }
}

Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
    c-ID                                C-ID,
    resourceOperationalState            ResourceOperationalState                OPTIONAL,
    availabilityStatus                  AvailabilityStatus                        OPTIONAL,
    primary-SCH-Information              P-SCH-Information-ResourceStatusInd    OPTIONAL, -- FDD only
    secondary-SCH-Information            S-SCH-Information-ResourceStatusInd    OPTIONAL, -- FDD only
    primary-CPICH-Information            P-CPICH-Information-ResourceStatusInd  OPTIONAL, -- FDD only
    secondary-CPICH-Information          S-CPICH-InformationList-ResourceStatusInd  OPTIONAL, -- FDD only
    primary-CCPCH-Information            P-CCPCH-Information-ResourceStatusInd    OPTIONAL,
    BCH-Information                      BCH-Information-ResourceStatusInd        OPTIONAL,
    secondary-CCPCH-InformationList       S-CCPCH-InformationList-ResourceStatusInd  OPTIONAL,
    pCH-Information                      PCH-Information-ResourceStatusInd        OPTIONAL,
    pICH-Information                     PICH-Information-ResourceStatusInd       OPTIONAL,
    fACH-InformationList                 FACH-InformationList-ResourceStatusInd    OPTIONAL,
    pRACH-InformationList                 PRACH-InformationList-ResourceStatusInd   OPTIONAL,
    rACH-InformationList                 RACH-InformationList-ResourceStatusInd    OPTIONAL,
    aICH-InformationList                 AICH-InformationList-ResourceStatusInd    OPTIONAL, -- FDD only
    notUsed-1-pCPCH-InformationList NULLpCPCH-InformationList-ResourceStatusInd    OPTIONAL, ---FDD-only
    notUsed-2-cPCH-InformationList NULLcPCH-InformationList-ResourceStatusInd    OPTIONAL, ---FDD-only
    notUsed-3-aP-AICH-InformationList NULLaP-AICH-InformationList-ResourceStatusInd    OPTIONAL, ---FDD-only
    notUsed-4-cDCA-ICH-InformationList NULLcDCA-ICH-InformationList-ResourceStatusInd    OPTIONAL, ---FDD-only
    sCH-Information                      SCH-Information-ResourceStatusInd        OPTIONAL, -- Applicable to 3.84Mcps TDD only
    iE-Extensions                       ProtocolExtensionContainer { { Cell-InformationItem-ResourceStatusInd-ExtIEs} }    OPTIONAL,
    ...
}

Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-FPACH-LCR-InformationList-ResourceStatusInd    CRITICALITY ignore    EXTENSION    FPACH-LCR-InformationList-ResourceStatusInd
    PRESENCE optional }| -- Applicable to 1.28Mcps TDD only
    { ID id-DwPCH-LCR-Information-ResourceStatusInd        CRITICALITY ignore    EXTENSION    DwPCH-LCR-Information-ResourceStatusInd
    PRESENCE optional }| -- Applicable to 1.28Mcps TDD only
    { ID id-HSDSCH-Resources-Information-ResourceStatusInd CRITICALITY ignore    EXTENSION    HS-DSCH-Resources-Information-ResourceStatusInd
    PRESENCE optional },
}

```

```
    ...
}

P-SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-SCH-InformationIE-ResourceStatusInd }}

P-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-P-SCH-Information    CRITICALITY ignore    TYPE Common-PhysicalChannel-Status-Information          PRESENCE mandatory }
}

S-SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ S-SCH-InformationIE-ResourceStatusInd }}

S-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-S-SCH-Information    CRITICALITY ignore    TYPE Common-PhysicalChannel-Status-Information          PRESENCE mandatory }
}

P-CPICH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-CPICH-InformationIE-ResourceStatusInd }}

P-CPICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-P-CPICH-Information    CRITICALITY ignore    TYPE Common-PhysicalChannel-Status-Information          PRESENCE mandatory }
}

S-CPICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container {{ S-CPICH-InformationItemIE-ResourceStatusInd }}

S-CPICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-S-CPICH-Information    CRITICALITY ignore    TYPE Common-PhysicalChannel-Status-Information          PRESENCE mandatory }
}

P-CCPCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-CCPCH-InformationIE-ResourceStatusInd }}

P-CCPCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-P-CCPCH-Information    CRITICALITY ignore    TYPE Common-PhysicalChannel-Status-Information          PRESENCE mandatory }
}

BCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ BCH-InformationIE-ResourceStatusInd }}

BCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-BCH-Information    CRITICALITY ignore    TYPE Common-TransportChannel-Status-Information          PRESENCE mandatory }
}

S-CCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-ResourceStatusInd }}

S-CCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-S-CCPCH-Information    CRITICALITY ignore    TYPE Common-PhysicalChannel-Status-Information          PRESENCE mandatory }
}

PCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ PCH-InformationIE-ResourceStatusInd }}

PCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-PCH-Information    CRITICALITY ignore    TYPE Common-TransportChannel-Status-Information          PRESENCE mandatory }
}
```



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```
PICH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ PICH-InformationIE-ResourceStatusInd }}

PICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

FACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Single-Container {{ FACH-InformationItemIE-ResourceStatusInd }}

FACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory }
}

PRACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-InformationItemIE-ResourceStatusInd }}

PRACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PRACH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

RACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ RACH-InformationItemIE-ResourceStatusInd }}

RACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-RACH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory }
}

AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ AICH-InformationItemIE-ResourceStatusInd }}

AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-AICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

PCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPCPCHCell)) OF ProtocolIE-Single-Container {{ PCPCH-InformationItemIE-ResourceStatusInd }}

PCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-PCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE optional }
}

CPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ CPCH-InformationItemIE-ResourceStatusInd }}

CPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-CPCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE optional }
}

AP-AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ AP-AICH-InformationItemIE-ResourceStatusInd }}

AP-AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-AP-AICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE optional }
}
```

```

}

CDCA-ICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ CDCA-ICH-InformationItemIE-ResourceStatusInd }}

CDCA-ICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-CDCA-ICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE optional }
}

SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ SCH-InformationIE-ResourceStatusInd }}

SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

FPACH-LCR-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFPACHCell)) OF ProtocolIE-Single-Container {{ FPACH-LCR-InformationItemIE-ResourceStatusInd }}

FPACH-LCR-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-FPACH-LCR-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

DwPCH-LCR-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ DwPCH-LCR-InformationIE-ResourceStatusInd }}

DwPCH-LCR-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-DwPCH-LCR-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

HS-DSCH-Resources-Information-ResourceStatusInd ::= SEQUENCE {
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  iE-Extensions ProtocolExtensionContainer {{ HS-DSCH-Resources-Information-ResourceStatusInd-ExtIEs }} OPTIONAL,
  ...
}

HS-DSCH-Resources-Information-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

### 9.3.4 Information Elements Definitions

```

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

NBAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

IMPORTS
    maxNrOfRLs,
    maxNrOfTFCs,
    maxNrOfErrors,
    maxCTFC,
    maxNrOfTfFs,
    maxTTI-count,
    maxRateMatching,
    maxCodeNrComp-1,
    maxHS-PDSCHCodeNrComp-1,
    maxHS-SCCHCodeNrComp-1,
    maxNrOfCellSyncBursts,
    maxNrOfCodeGroups,
    maxNrOfMeasNCell,
    maxNrOfMeasNCell-1,
    maxNrOfReceiptsPerSyncFrame,
    maxNrOfTFCIGroups,
    maxNrOfTFCI1Combs,
    maxNrOfTFCI2Combs,
    maxNrOfTFCI2Combs-1,
    maxNrOfSF,
    maxTGPS,
    maxNrOfUSCHs,
    maxNrOfULTSs,
    maxNrOfULTSLCRs,
    maxNrOfDPCHs,
    maxNrOfDPCHLCRs,
    maxNrOfCodes,
    maxNrOfDSCHs,
    maxNrOfDLTSs,
    maxNrOfDLTSLCRs,
    maxNrOfDCHs,
    maxNrOfLevels,
    maxNoGPSItems,
    maxNoSat,

```

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maxNrOfCellPortionsPerCell,  
maxNrOfCellPortionsPerCell-1,  
maxNrOfHSSCCHs,  
maxNrOfHSSCCHCodes,  
maxNrOfMACdFlows,  
maxNrOfMACdFlows-1,  
maxNrOfMACdPDUIndexes,  
maxNrOfMACdPDUIndexes-1,  
maxNrOfPriorityQueues,  
maxNrOfPriorityQueues-1,  
maxNrOfHARQProcesses,  
maxNrOfSyncDLCodesLCR,  
maxNrOfSyncFramesLCR,  
maxNrOfContextsOnUeList,  
maxNrOfPriorityClasses,  
maxNrOfSatAlmanac-maxNoSat,

id-MessageStructure,  
id-ReportCharacteristicsType-OnModification,  
id-Rx-Timing-Deviation-Value-LCR,  
id-SFNSFNMeasurementValueInformation,  
id-SFNSFNMeasurementThresholdInformation,  
id-TUTRANGPSMeasurementValueInformation,  
id-TUTRANGPSMeasurementThresholdInformation,  
id-TypeOfError,  
id-transportlayeraddress,  
id-bindingID,  
id-Angle-Of-Arrival-Value-LCR,  
id-SyncDLCodeIdThreInfoLCR,  
id-neighbouringTDDCellMeasurementInformationLCR,  
id-HS-SICH-Reception-Quality,  
id-HS-SICH-Reception-Quality-Measurement-Value,  
id-Initial-DL-Power-TimeslotLCR-InformationItem,  
id-Maximum-DL-Power-TimeslotLCR-InformationItem,  
id-Minimum-DL-Power-TimeslotLCR-InformationItem,  
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHorHS-SCCHTransmission,  
id-HS-DSCHRequiredPowerValueInformation,  
id-HS-DSCHProvidedBitRateValueInformation,  
id-HS-DSCHRequiredPowerValue,  
id-Best-Cell-Portions-Value,  
id-Unidirectional-DCH-Indicator,  
id-SAT-Info-Almanac-ExtItem,  
id-TnlQos

FROM NBAP-Constants

Criticality,  
ProcedureID,  
ProtocolIE-ID,  
TransactionID,  
TriggeringMessage

FROM NBAP-CommonDataTypes

NBAP-PROTOCOL-IES,

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

-- =====
-- A
-- =====

AckNack-RepetitionFactor ::= INTEGER (1..4,...)
-- Step: 1

Ack-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. [9] subclause 4.2.1

Acknowledged-PCPCH-access-preambles ::= INTEGER (0..15,...)
-- According to mapping in [22].

Acknowledged-PRACH-preambles-Value ::= INTEGER(0..240,...)
-- According to mapping in [22].

AddorDeleteIndicator ::= ENUMERATED {
    add,
    delete
}

Active-Pattern-Sequence-Information ::= SEQUENCE {
    cMConfigurationChangeCFN          CFN,
    transmission-Gap-Pattern-Sequence-Status  Transmission-Gap-Pattern-Sequence-Status-List  OPTIONAL,
    iE-Extensions                      ProtocolExtensionContainer { {Active-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
    ...
}

Active-Pattern-Sequence-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

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

Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

```

}
...
AICH-Power ::= INTEGER (-22..5)
-- Offset in dB.

AICH-TransmissionTiming ::= ENUMERATED {
    v0,
    v1
}

AllocationRetentionPriority ::= SEQUENCE {
    priorityLevel          PriorityLevel,
    pre-emptionCapability  Pre-emptionCapability,
    pre-emptionVulnerability Pre-emptionVulnerability,
    iE-Extensions          ProtocolExtensionContainer { {AllocationRetentionPriority-ExtIEs} } OPTIONAL,
    ...
}

AllocationRetentionPriority-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Angle-Of-Arrival-Value-LCR ::= SEQUENCE {
    aOA-LCR                AOA-LCR,
    aOA-LCR-Accuracy-Class AOA-LCR-Accuracy-Class,
    iE-Extensions          ProtocolExtensionContainer { {Angle-Of-Arrival-Value-LCR-ExtIEs} } OPTIONAL,
    ...
}

Angle-Of-Arrival-Value-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AOA-LCR ::= INTEGER (0..719)
-- Angle Of Arrival for 1.28Mcps TDD

AOA-LCR-Accuracy-Class ::= ENUMERATED {a,b,c,d,e,f,g,h,...}

APPreambleSignature ::= INTEGER (0..15)
APSubChannelNumber ::= INTEGER (0..11)

AvailabilityStatus ::= ENUMERATED {
    empty,
    in-test,
    failed,
    power-off,
    off-line,
    off-duty,
    dependency,
    degraded,

```

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```
    not-installed,
    log-full,
    ...
}

-- =====
-- B
-- =====

BCCH-ModificationTime ::= INTEGER (0..511)
-- Time = BCCH-ModificationTime * 8
-- Range 0 to 4088, step 8
-- All SFN values in which MIB may be mapped are allowed

Best-Cell-Portions-Value ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF Best-Cell-Portions-Item

Best-Cell-Portions-Item ::= SEQUENCE {
    cellPortionID          CellPortionID,
    sIRValue               SIR-Value,
    iE-Extensions          ProtocolExtensionContainer { { Best-Cell-Portions-Item-ExtIEs } } OPTIONAL,
    ...
}

Best-Cell-Portions-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

BindingID ::= OCTET STRING (SIZE (1..4, ...))
-- If the Binding ID includes a UDP port, the UDP port is included in octet 1 and 2. The first octet of
-- the UDP port field is included in the first octet of the Binding ID.

BetaCD ::= INTEGER (0..15)

BlockingPriorityIndicator ::= ENUMERATED {
    high,
    normal,
    low,
    ...
}
-- High priority: Block resource immediately.
-- Normal priority: Block resource when idle or upon timer expiry.
-- Low priority: Block resource when idle.

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

-- =====
-- C
-- =====

Cause ::= CHOICE {
```

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```
    radioNetwork      CauseRadioNetwork,
    transport         CauseTransport,
    protocol          CauseProtocol,
    misc              CauseMisc,
    ...
}

CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure,
    oam-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    ...
}

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

CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID,
    cell-not-available,
    power-level-not-supported,
    dl-radio-resources-not-available,
    ul-radio-resources-not-available,
    rl-already-ActivatedOrAllocated,
    nodeB-Resources-unavailable,
    measurement-not-supported-for-the-object,
    combining-resources-not-available,
    requested-configuration-not-supported,
    synchronisation-failure,
    priority-transport-channel-established,
    sIB-Origination-in-Node-B-not-Supported,
    requested-tx-diversity-mode-not-supported,
    unspecified,
    bCCH-scheduling-error,
    measurement-temporarily-not-available,
    invalid-CM-settings,
    reconfiguration-CFN-not-elapsed,
    number-of-DL-codes-not-supported,
    s-cipch-not-supported,
    combining-not-supported,
    ul-sf-not-supported,
    dl-SF-not-supported,
    common-transport-channel-type-not-supported,
```



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```
dedicated-transport-channel-type-not-supported,  
downlink-shared-channel-type-not-supported,  
uplink-shared-channel-type-not-supported,  
cm-not-supported,  
tx-diversity-no-longer-supported,  
unknown-Local-Cell-ID,  
...,  
number-of-UL-codes-not-supported,  
information-temporarily-not-available,  
information-provision-not-supported-for-the-object,  
cell-synchronisation-not-supported,  
cell-synchronisation-adjustment-not-supported,  
dpc-mode-change-not-supported,  
iPDL-already-activated,  
iPDL-not-supported,  
iPDL-parameters-not-available,  
frequency-acquisition-not-supported,  
power-balancing-status-not-compatible,  
requested-typeofbearer-re-arrangement-not-supported,  
signalling-Bearer-Re-arrangement-not-supported,  
bearer-Re-arrangement-needed,  
delayed-activation-not-supported,  
rl-timing-adjustment-not-supported  
}  
  
CauseTransport ::= ENUMERATED {  
    transport-resource-unavailable,  
    unspecified,  
    ...  
}  
  
CCTrCH-ID ::= INTEGER (0..15)  
  
CDSUBCHANNELNUMBERS ::= BIT STRING {  
    subCh11(0),  
    subCh10(1),  
    subCh9(2),  
    subCh8(3),  
    subCh7(4),  
    subCh6(5),  
    subCh5(6),  
    subCh4(7),  
    subCh3(8),  
    subCh2(9),  
    subCh1(10),  
    subCh0(11)  
    } (SIZE (12))  
  
CellParameterID ::= INTEGER (0..127,...)  
  
CellPortionID ::= INTEGER (0..maxNrOfCellPortionsPerCell-1,...)  
  
CellSyncBurstCode ::= INTEGER(0..7, ...)
```

```

CellSyncBurstCodeShift ::= INTEGER(0..7)

CellSyncBurstRepetitionPeriod ::= INTEGER (0..4095)

CellSyncBurstSIR ::= INTEGER (0..31)

CellSyncBurstTiming ::= CHOICE {
    initialPhase      INTEGER (0..1048575,...),
    steadyStatePhase  INTEGER (0..255,...)
}

CellSyncBurstTimingLCR ::= CHOICE {
    initialPhase      INTEGER (0..524287,...),
    steadyStatePhase  INTEGER (0..127,...)
}

CellSyncBurstTimingThreshold ::= INTEGER(0..254)

CFN ::= INTEGER (0..255)

ChannelAssignmentIndication ::= ENUMERATED {
    eA-Active,
    eA-Inactive
}

ChipOffset ::= INTEGER (0..38399)
-- Unit Chip

C-ID ::= INTEGER (0..65535)

Closedlooptimingadjustmentmode ::= ENUMERATED {
    adj-1-slot,
    adj-2-slot,
    ...
}

CommonChannelsCapacityConsumptionLaw ::= SEQUENCE (SIZE(1..maxNrOfSF)) OF
    SEQUENCE {
        dl-Cost      INTEGER (0..65535),
        ul-Cost      INTEGER (0..65535),
        iE-Extensions  ProtocolExtensionContainer { { CommonChannelsCapacityConsumptionLaw-ExtIEs } } OPTIONAL,
        ...
    }

CommonChannelsCapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonMeasurementAccuracy ::= CHOICE {
    tUTRANGPSMeasurementAccuracyClass  TUTRANGPSAccuracyClass,
    ...
}

```

```

CommonMeasurementType ::= ENUMERATED {
    received-total-wide-band-power,
    transmitted-carrier-power,
    acknowledged-prach-preambles,
    ul-timeslot-iscp,
    notUsed-1-acknowledged-PCPCH-access-preambles,
    notUsed-2-detected-PCPCH-access-preambles,
    ...,
    uTRAN-GPS-Timing-of-Cell-Frames-for-UE-Positioning,
    sFN-SFN-Observed-Time-Difference,
    transmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission,
    hS-DSCH-Required-Power,
    hS-DSCH-Provided-Bit-Rate
}

CommonMeasurementValue ::= CHOICE {
    transmitted-carrier-power                Transmitted-Carrier-Power-Value,
    received-total-wide-band-power           Received-total-wide-band-power-Value,
    acknowledged-prach-preambles            Acknowledged-PRACH-preambles-Value,
    uL-TimeslotISCP                          UL-TimeslotISCP-Value,
    notUsed-1-acknowledged-PCPCH-access-preambles NULLAcknowledged-PCPCH-access-preambles,
    notUsed-2-detected-PCPCH-access-preambles NULLDetected-PCPCH-access-preambles,
    ...,
    extension-CommonMeasurementValue        Extension-CommonMeasurementValue
}

Extension-CommonMeasurementValue ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementValueIE }}

Extension-CommonMeasurementValueIE NBAP-PROTOCOL-IES ::= {
    { ID id-TUTRANGPSMeasurementValueInformation CRITICALITY ignore TYPE TUTRANGPSMeasurementValueInformation PRESENCE mandatory }|
    { ID id-SFN-SFNMeasurementValueInformation CRITICALITY ignore TYPE SFN-SFNMeasurementValueInformation PRESENCE mandatory }|
    { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission CRITICALITY ignore TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionValue PRESENCE mandatory }|
    { ID id-HS-DSCHRequiredPowerValueInformation CRITICALITY ignore TYPE HS-DSCHRequiredPower PRESENCE mandatory }|
    { ID id-HS-DSCHProvidedBitRateValueInformation CRITICALITY ignore TYPE HS-DSCHProvidedBitRate PRESENCE mandatory }
}

CommonMeasurementValueInformation ::= CHOICE {
    measurementAvailable                CommonMeasurementAvailable,
    measurementnotAvailable             CommonMeasurementnotAvailable
}

CommonMeasurementAvailable ::= SEQUENCE {
    commonmeasurementValue              CommonMeasurementValue,
    ie-Extensions                        ProtocolExtensionContainer { { CommonMeasurementAvailableItem-ExtIEs } } OPTIONAL,
    ...
}

```

```

CommonMeasurementAvailableItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
CommonMeasurementnotAvailable ::= NULL

CommonPhysicalChannelID ::= INTEGER (0..255)

Common-PhysicalChannel-Status-Information ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    resourceOperationalState         ResourceOperationalState,
    availabilityStatus                AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { Common-PhysicalChannel-Status-Information-ExtIEs} } OPTIONAL,
    ...
}

Common-PhysicalChannel-Status-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonTransportChannelID ::= INTEGER (0..255)

CommonTransportChannel-InformationResponse ::= SEQUENCE {
    commonTransportChannelID         CommonTransportChannelID,
    bindingID                        BindingID OPTIONAL,
    transportLayerAddress            TransportLayerAddress OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { { CommonTransportChannel-InformationResponse-ExtIEs} } OPTIONAL,
    ...
}

CommonTransportChannel-InformationResponse-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Common-TransportChannel-Status-Information ::= SEQUENCE {
    commonTransportChannelID         CommonTransportChannelID,
    resourceOperationalState         ResourceOperationalState,
    availabilityStatus                AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { Common-TransportChannel-Status-Information-ExtIEs} } OPTIONAL,
    ...
}

Common-TransportChannel-Status-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommunicationControlPortID ::= INTEGER (0..65535)

Compressed-Mode-Deactivation-Flag ::= ENUMERATED {
    deactivate,
    maintain-Active
}

```

```

}

ConfigurationGenerationID ::= INTEGER (0..255)
-- Value '0' means "No configuration"

ConstantValue ::= INTEGER (-10..10,...)
-- -10 dB - +10 dB
-- unit dB
-- step 1 dB

EPCH-Allowed-Total-Rate ::= ENUMERATED {
  v15,
  v30,
  v60,
  v120,
  v240,
  v480,
  v960,
  v1920,
  v2880,
  v3840,
  v4800,
  v5760,
  ...
}

EPCHScramblingCodeNumber ::= INTEGER (0..79)

EPCH-UL-DPCCH-SlotFormat ::= INTEGER (0..2,...)

CQI-Feedback-Cycle ::= ENUMERATED {v0, v2, v4, v8, v10, v20, v40, v80, v160,...}

CQI-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. [9] subclause 4.2.1

CQI-RepetitionFactor ::= INTEGER (1..4,...)
-- Step: 1

CriticalityDiagnostics ::= SEQUENCE {
  procedureID          ProcedureID          OPTIONAL,
  triggeringMessage    TriggeringMessage    OPTIONAL,
  procedureCriticality Criticality          OPTIONAL,
  transactionID        TransactionID        OPTIONAL,
  iEsCriticalityDiagnostics CriticalityDiagnostics-IE-List OPTIONAL,
  iE-Extensions        ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} } OPTIONAL,
  ...
}

```

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```
Execution-Type ::= CHOICE {  
    synchronised    CFN,  
    unsynchronised  NULL  
}
```

```
Detected-PCPCH-access-preambles ::= INTEGER (0..240,...)  
-- According to mapping in [22].
```

```
DeltaSIR          ::= INTEGER (0..30)  
-- Unit dB, Step 0.1 dB, Range 0..3 dB.
```

```

Maximum-PDSCH-Power-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

MaximumTransmissionPower ::= INTEGER(0..500)
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB

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

Max-Number-of-PCPCHes ::= INTEGER (1..64, ...)

MaxPRACH-MidambleShifts ::= ENUMERATED {
    shift4,
    shift8,
    ...
}

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

MeasurementID ::= INTEGER (0..1048575)

Measurement-Power-Offset ::= INTEGER(-12 .. 26)
-- Actual value = IE value * 0.5

MessageStructure ::= SEQUENCE (SIZE (1..maxNrOfLevels)) OF
    SEQUENCE {
        iE-ID                ProtocolIE-ID,
        repetitionNumber     RepetitionNumber1 OPTIONAL,
        iE-Extensions        ProtocolExtensionContainer { {MessageStructure-ExtIEs} } OPTIONAL,
        ...
    }

MessageStructure-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

MidambleConfigurationLCR ::=    ENUMERATED {v2, v4, v6, v8, v10, v12, v14, v16, ...}

MidambleConfigurationBurstType1And3 ::=    ENUMERATED {v4, v8, v16}

MidambleConfigurationBurstType2 ::=    ENUMERATED {v3, v6}

MidambleShiftAndBurstType ::=    CHOICE {
    type1                SEQUENCE {
        midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
        midambleAllocationMode             CHOICE {
            defaultMidamble                NULL,
            commonMidamble                 NULL,
            ueSpecificMidamble             MidambleShiftLong,
            ...
        }
    }
}

```

```

    },
    ...
  },
  type2
    SEQUENCE {
      midambleConfigurationBurstType2 MidambleConfigurationBurstType2,
      midambleAllocationMode          CHOICE {
        defaultMidamble              NULL,
        commonMidamble                NULL,
        ueSpecificMidamble            MidambleShiftShort,
        ...
      },
      ...
    },
  type3
    SEQUENCE {
      midambleConfigurationBurstType1And3 MidambleConfigurationBurstType1And3,
      midambleAllocationMode              CHOICE {
        defaultMidamble                  NULL,
        ueSpecificMidamble                MidambleShiftLong,
        ...
      },
      ...
    },
  ...
}

MidambleShiftLong ::= INTEGER (0..15)

MidambleShiftShort ::= INTEGER (0..5)

MidambleShiftLCR ::= SEQUENCE {
  midambleAllocationMode MidambleAllocationMode,
  midambleShift           MidambleShiftLong      OPTIONAL,
  -- The IE shall be present if the Midamble Allocation Mode IE is set to "UE specific midamble".
  midambleConfigurationLCR MidambleConfigurationLCR,
  iE-Extensions             ProtocolExtensionContainer { {MidambleShiftLCR-ExtIEs} } OPTIONAL,
  ...
}

MidambleAllocationMode ::= ENUMERATED {
  defaultMidamble,
  commonMidamble,
  ueSpecificMidamble,
  ...
}

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

MinimumDL-PowerCapability ::= INTEGER(0..800)
-- Unit dBm, Range -30dBm .. 50dBm, Step +0.1dB

MinSpreadingFactor ::= ENUMERATED {

```



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```
    v4,
    v8,
    v16,
    v32,
    v64,
    v128,
    v256,
    v512
}
-- TDD Mapping scheme for the minimum spreading factor 1 and 2: "256" means 1, "512" means 2

ModifyPriorityQueue ::= CHOICE {
    addPriorityQueue          PriorityQueue-InfoItem-to-Add,
    modifyPriorityQueue      PriorityQueue-InfoItem-to-Modify,
    deletePriorityQueue     PriorityQueue-Id,
    ...
}

Modulation ::= ENUMERATED {
    qPSK,
    eightPSK,
    ...
}

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

MultiplexingPosition ::= ENUMERATED {
    fixed,
    flexible
}

-- =====
-- N
-- =====

Nack-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. [9] subclause 4.2.1

NCyclesPerSFNperiod ::= ENUMERATED {
    v1,
    v2,
    v4,
    v8,
    ...,

```

```

v16,
v32,
v64
}
NEOT ::= INTEGER (0..8)
NFmax ::= INTEGER (1..64,...
NRepetitionsPerCyclePeriod ::= INTEGER (2..10)
N-INSYNC-IND ::= INTEGER (1..256)
N-OUTSYNC-IND ::= INTEGER (1..256)
NeighbouringCellMeasurementInformation ::= SEQUENCE (SIZE (1..maxNrOfMeasNCell)) OF
    CHOICE {
        neighbouringFDDCellMeasurementInformation      NeighbouringFDDCellMeasurementInformation, -- FDD only
        neighbouringTDDCellMeasurementInformation      NeighbouringTDDCellMeasurementInformation,
        -- Applicable to 3.84Mcps TDD only
        ...,
        extension-neighbouringCellMeasurementInformation      Extension-neighbouringCellMeasurementInformation
    }
Extension-neighbouringCellMeasurementInformation ::= ProtocolIE-Single-Container {{ Extension-neighbouringCellMeasurementInformationIE }}
Extension-neighbouringCellMeasurementInformationIE NBAP-PROTOCOL-IES ::= {
    { ID id-neighbouringTDDCellMeasurementInformationLCR      CRITICALITY reject TYPE NeighbouringTDDCellMeasurementInformationLCR PRESENCE mandatory
}, -- Applicable to 1.28Mcps TDD only
    ...
}
NeighbouringFDDCellMeasurementInformation ::= SEQUENCE {
    uC-Id                UC-Id,
    uARFCN                UARFCN,
    primaryScramblingCode PrimaryScramblingCode,
    iE-Extensions        ProtocolExtensionContainer { { NeighbouringFDDCellMeasurementInformationItem-ExtIEs } } OPTIONAL,
    ...
}
NeighbouringFDDCellMeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
NeighbouringTDDCellMeasurementInformation ::= SEQUENCE {
    uC-Id                UC-Id,
    uARFCN                UARFCN,
    cellParameterID      CellParameterID,
    timeSlot              TimeSlot                OPTIONAL,
    midambleShiftAndBurstType MidambleShiftAndBurstType    OPTIONAL,
    iE-Extensions        ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationItem-ExtIEs } } OPTIONAL,
    ...
}

```

```

}

NeighbouringTDDCellMeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

NeighbouringTDDCellMeasurementInformationLCR ::= SEQUENCE {
    uC-Id                UC-Id,
    uARFCN               UARFCN,
    cellParameterID     CellParameterID,
    timeSlotLCR         TimeSlotLCR          OPTIONAL,
    midambleShiftLCR    MidambleShiftLCR     OPTIONAL,
    iE-Extensions       ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationLCRItem-ExtIEs } } OPTIONAL,
    ...
}

NeighbouringTDDCellMeasurementInformationLCRItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

NodeB-CommunicationContextID ::= INTEGER (0..1048575)

NumberOfReportedCellPortions ::= INTEGER (1..maxNrOfCellPortionsPerCell,...)

NStartMessage ::= INTEGER (1..8)

NSubCyclesPerCyclePeriod ::= INTEGER (1..16,...)

-- =====
-- O
-- =====

-- =====
-- P
-- =====

PagingIndicatorLength ::= ENUMERATED {
    v2,
    v4,
    v8,
    ...
}

PayloadCRC-PresenceIndicator ::= ENUMERATED {
    cRC-Included,
    cRC-NotIncluded,
    ...
}

PCCPCH-Power ::= INTEGER (-150..400,...)
-- PCCPCH-power = power * 10

```

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```
-- If power <= -15 PCCPCH shall be set to -150
-- If power >= 40 PCCPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dB
```

```
PCP-Length ::= ENUMERATED{
  v0,
  v8
}
```

```
PDSCH-CodeMapping ::= SEQUENCE {
  dl-ScramblingCode          DL-ScramblingCode,
  signallingMethod          CHOICE {
    code-Range              PDSCH-CodeMapping-PDSCH-CodeMappingInformationList,
    tFCI-Range              PDSCH-CodeMapping-DSCH-MappingInformationList,
    explicit                 PDSCH-CodeMapping-PDSCH-CodeInformationList,
    ...,
    replace                 PDSCH-CodeMapping-ReplacedPDSCH-CodeInformationList
  },
  iE-Extensions              ProtocolExtensionContainer { { PDSCH-CodeMapping-ExtIEs} } OPTIONAL,
  ...
}
```

```

ReportCharacteristicsType-OnModification ::= SEQUENCE {
    measurementThreshold          ReportCharacteristicsType-MeasurementThreshold,
    iE-Extensions                 ProtocolExtensionContainer { { ReportCharacteristicsType-OnModification-ExtIEs } } OPTIONAL,
    ...
}

ReportCharacteristicsType-OnModification-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold ::= CHOICE {
    received-total-wide-band-power          Received-total-wide-band-power-Value-IncrDecrThres,
    transmitted-carrier-power              Transmitted-Carrier-Power-Value,
    acknowledged-prach-preambles          Acknowledged-PRACH-preambles-Value,
    uL-TimeslotISCP                        UL-TimeslotISCP-Value-IncrDecrThres,
    sir                                     SIR-Value-IncrDecrThres,
    sir-error                              SIR-Error-Value-IncrDecrThres,
    transmitted-code-power                 Transmitted-Code-Power-Value-IncrDecrThres,
    rscp                                    RSCP-Value-IncrDecrThres,
    round-trip-time                        Round-Trip-Time-IncrDecrThres,
    notUsed-1-acknowledged-PCPCH-access-preambles NULLAcknowledged-PCPCH-access-preambles,
    notUsed-2-detected-PCPCH-access-preambles    NULLDetected-PCPCH-access-preambles,
    ...
    extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold      Extension-ReportCharacteristicsType-
MeasurementIncreaseDecreaseThreshold
}

Extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsType-
MeasurementIncreaseDecreaseThresholdIE }}

Extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThresholdIE NBAP-PROTOCOL-IES ::= {
{ ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission CRITICALITY reject TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionValue PRESENCE mandatory}
}

ReportCharacteristicsType-MeasurementThreshold ::= CHOICE {
    received-total-wide-band-power          Received-total-wide-band-power-Value,
    transmitted-carrier-power              Transmitted-Carrier-Power-Value,
    acknowledged-prach-preambles          Acknowledged-PRACH-preambles-Value,
    uL-TimeslotISCP                        UL-TimeslotISCP-Value,
    sir                                     SIR-Value,
    sir-error                              SIR-Error-Value,
    transmitted-code-power                 Transmitted-Code-Power-Value,
    rscp                                    RSCP-Value,
    rx-timing-deviation                    Rx-Timing-Deviation-Value,
    round-trip-time                        Round-Trip-Time-Value,
    notUsed-1-acknowledged-PCPCH-access-preambles NULLAcknowledged-PCPCH-access-preambles,
    notUsed-2-detected-PCPCH-access-preambles    NULLDetected-PCPCH-access-preambles,
    ...
    extension-ReportCharacteristicsType-MeasurementThreshold      Extension-ReportCharacteristicsType-MeasurementThreshold
}

```

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```
Extension-ReportCharacteristicsType-MeasurementThreshold ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsType-  
MeasurementThresholdIE }}
```

```
Extension-ReportCharacteristicsType-MeasurementThresholdIE NBAP-PROTOCOL-IES ::= {  
  { ID id-TUTRANGPSMeasurementThresholdInformation CRITICALITY reject TYPE TUTRANGPSMeasurementThresholdInformation PRESENCE mandatory }|  
  { ID id-SFNFSNMeasurementThresholdInformation CRITICALITY reject TYPE SFNFSNMeasurementThresholdInformation PRESENCE mandatory }|  
  { ID id-Rx-Timing-Deviation-Value-LCR CRITICALITY reject TYPE Rx-Timing-Deviation-Value-LCR PRESENCE mandatory }|  
  { ID id-HS-SICH-Reception-Quality-Measurement-Value CRITICALITY reject TYPE HS-SICH-Reception-Quality-Measurement-Value PRESENCE mandatory }|  
  { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission CRITICALITY reject TYPE  
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionValue PRESENCE mandatory }|  
  { ID id-HS-DSCHRequiredPowerValue CRITICALITY reject TYPE HS-DSCHRequiredPowerValue PRESENCE mandatory }  
}
```

### 9.3.6 Constant Definitions

```

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

NBAP-Constants {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Constants (4)}

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS
    ProcedureCode,
    ProtocolIE-ID
FROM NBAP-CommonDataTypes;

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

id-audit                               ProcedureCode ::= 0
id-auditRequired                       ProcedureCode ::= 1
id-blockResource                       ProcedureCode ::= 2
id-cellDeletion                        ProcedureCode ::= 3
id-cellReconfiguration                 ProcedureCode ::= 4
id-cellSetup                           ProcedureCode ::= 5
id-cellSynchronisationInitiation       ProcedureCode ::= 45
id-cellSynchronisationReconfiguration  ProcedureCode ::= 46
id-cellSynchronisationReporting        ProcedureCode ::= 47
id-cellSynchronisationTermination      ProcedureCode ::= 48
id-cellSynchronisationFailure          ProcedureCode ::= 49
id-commonMeasurementFailure            ProcedureCode ::= 6
id-commonMeasurementInitiation         ProcedureCode ::= 7
id-commonMeasurementReport             ProcedureCode ::= 8
id-commonMeasurementTermination        ProcedureCode ::= 9
id-commonTransportChannelDelete        ProcedureCode ::= 10
id-commonTransportChannelReconfigure   ProcedureCode ::= 11
id-commonTransportChannelSetup         ProcedureCode ::= 12
id-compressedModeCommand               ProcedureCode ::= 14
id-dedicatedMeasurementFailure         ProcedureCode ::= 16
id-dedicatedMeasurementInitiation      ProcedureCode ::= 17
id-dedicatedMeasurementReport          ProcedureCode ::= 18
id-dedicatedMeasurementTermination     ProcedureCode ::= 19

```

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id-downlinkPowerControl	ProcedureCode ::= 20
id-downlinkPowerTimeslotControl	ProcedureCode ::= 38
id-errorIndicationForCommon	ProcedureCode ::= 35
id-errorIndicationForDedicated	ProcedureCode ::= 21
id-informationExchangeFailure	ProcedureCode ::= 40
id-informationExchangeInitiation	ProcedureCode ::= 41
id-informationExchangeTermination	ProcedureCode ::= 42
id-informationReporting	ProcedureCode ::= 43
id-BearerRearrangement	ProcedureCode ::= 50
id-physicalSharedChannelReconfiguration	ProcedureCode ::= 37
id-privateMessageForCommon	ProcedureCode ::= 36
id-privateMessageForDedicated	ProcedureCode ::= 22
id-radioLinkAddition	ProcedureCode ::= 23
id-radioLinkDeletion	ProcedureCode ::= 24
id-radioLinkFailure	ProcedureCode ::= 25
id-radioLinkPreemption	ProcedureCode ::= 39
id-radioLinkRestoration	ProcedureCode ::= 26
id-radioLinkSetup	ProcedureCode ::= 27
id-reset	ProcedureCode ::= 13
id-resourceStatusIndication	ProcedureCode ::= 28
id-cellSynchronisationAdjustment	ProcedureCode ::= 44
id-synchronisedRadioLinkReconfigurationCancellation	ProcedureCode ::= 29
id-synchronisedRadioLinkReconfigurationCommit	ProcedureCode ::= 30
id-synchronisedRadioLinkReconfigurationPreparation	ProcedureCode ::= 31
id-systemInformationUpdate	ProcedureCode ::= 32
id-unblockResource	ProcedureCode ::= 33
id-unSynchronisedRadioLinkReconfiguration	ProcedureCode ::= 34
id-radioLinkActivation	ProcedureCode ::= 51
id-radioLinkParameterUpdate	ProcedureCode ::= 52

```
-- *****  
--  
-- Lists  
--  
-- *****
```

maxNrOfCodes	INTEGER ::= 10
maxNrOfDLTSs	INTEGER ::= 15
maxNrOfDLTSLCRs	INTEGER ::= 6
maxNrOfErrors	INTEGER ::= 256
maxNrOfTFs	INTEGER ::= 32
maxNrOfTFCs	INTEGER ::= 1024
maxNrOfRLs	INTEGER ::= 16
maxNrOfRLs-1	INTEGER ::= 15 -- maxNrOfRLs - 1
maxNrOfRLs-2	INTEGER ::= 14 -- maxNrOfRLs - 2
maxNrOfRLSets	INTEGER ::= maxNrOfRLs
maxNrOfDPCHs	INTEGER ::= 240
maxNrOfDPCHLCRs	INTEGER ::= 240
maxNrOfSCCPCHs	INTEGER ::= 8
<del>maxNrOfCPCHs</del>	<del>INTEGER ::= 16</del>
<del>maxNrOfPCPCHs</del>	<del>INTEGER ::= 64</del>
maxNrOfDCHs	INTEGER ::= 128
maxNrOfDSCHs	INTEGER ::= 32



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```
maxNrOfFACHs          INTEGER ::= 8
maxNrOfCCTrCHs       INTEGER ::= 16
maxNrOfPDSCHs        INTEGER ::= 256
maxNrOfHSPDSCHs      INTEGER ::= 16
maxNrOfPUSCHs        INTEGER ::= 256
maxNrOfPDSCHSets     INTEGER ::= 256
maxNrOfPRACHLCRs     INTEGER ::= 8
maxNrOfPUSCHSets     INTEGER ::= 256
maxNrOfSCCPCHLCRs   INTEGER ::= 8
maxNrOfULTSs         INTEGER ::= 15
maxNrOfULTSLCRs     INTEGER ::= 6
maxNrOfUSCHs         INTEGER ::= 32
maxAPSigNum          INTEGER ::= 16
maxNrOfSlotFormatsPRACH  INTEGER ::= 8
maxCellinNodeB       INTEGER ::= 256
maxCCPinNodeB        INTEGER ::= 256
maxCPCHCell          INTEGER ::= maxNrOfCPCHs
maxCTFC               INTEGER ::= 16777215
maxLocalCellinNodeB  INTEGER ::= maxCellinNodeB
maxNoofLen            INTEGER ::= 7
maxFPACHCell         INTEGER ::= 8
maxRACHCell           INTEGER ::= maxPRACHCell
maxPRACHCell         INTEGER ::= 16
maxPCPCHCell         INTEGER ::= 64
maxSCCPCHCell        INTEGER ::= 32
maxSPICHCell         INTEGER ::= 32
maxTTI-count         INTEGER ::= 4
maxIBSEG             INTEGER ::= 16
maxIB                 INTEGER ::= 64
maxFACHCell          INTEGER ::= 256 -- maxNrOfFACHs * maxSCCPCHCell
maxRateMatching      INTEGER ::= 256
maxCodeNrComp-1     INTEGER ::= 256
maxHS-PDSCHCodeNrComp-1  INTEGER ::= 15
maxHS-SCCHCodeNrComp-1  INTEGER ::= 127
maxNrOfCellSyncBursts  INTEGER ::= 10
maxNrOfCodeGroups    INTEGER ::= 256
maxNrOfReceptsPerSyncFrame  INTEGER ::= 16
maxNrOfMeasNCell     INTEGER ::= 96
maxNrOfMeasNCell-1   INTEGER ::= 95 -- maxNrOfMeasNCell - 1
maxNrOfTFCIGroups    INTEGER ::= 256
maxNrOfTFCI1Combs    INTEGER ::= 512
maxNrOfTFCI2Combs    INTEGER ::= 1024
maxNrOfTFCI2Combs-1  INTEGER ::= 1023
maxNrOfSF            INTEGER ::= 8
maxTGPS              INTEGER ::= 6
maxCommunicationContext  INTEGER ::= 1048575
maxNrOfLevels        INTEGER ::= 256
maxNoSat              INTEGER ::= 16
maxNoGPSItems        INTEGER ::= 8
maxNrOfHSSCCHs       INTEGER ::= 32
maxNrOfHSSICHs       INTEGER ::= 4
maxNrOfSyncFramesLCR  INTEGER ::= 512
maxNrOfReceptionsperSyncFrameLCR  INTEGER ::= 8
```

```

maxNrOfSyncDLCodesLCR          INTEGER ::= 32
maxNrOfHSSCCHCodes             INTEGER ::= 4
maxNrOfMACdFlows               INTEGER ::= 8
maxNrOfMACdFlows-1             INTEGER ::= 7 -- maxNrOfMACdFlows - 1
maxNrOfMACdPDUIndexes          INTEGER ::= 8
maxNrOfMACdPDUIndexes-1        INTEGER ::= 7 -- maxNoOfMACdPDUIndexes - 1
maxNrOfPriorityQueues           INTEGER ::= 8
maxNrOfPriorityQueues-1         INTEGER ::= 7 -- maxNoOfPriorityQueues - 1
maxNrOfHARQProcesses           INTEGER ::= 8
maxNrOfContextsOnUeList        INTEGER ::= 16
maxNrOfCellPortionsPerCell     INTEGER ::= 64
maxNrOfCellPortionsPerCell-1   INTEGER ::= 63
maxNrOfPriorityClasses          INTEGER ::= 16
maxNrOfSatAlmanac-maxNoSat     INTEGER ::= 16 -- maxNrofSatAlmanac - maxNoSat

```

```

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

```

```

id-AICH-Information              ProtocolIE-ID ::= 0
id-AICH-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 1
id-BCH-Information              ProtocolIE-ID ::= 7
id-BCH-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 8
id-BCCH-ModificationTime        ProtocolIE-ID ::= 9
id-BlockingPriorityIndicator     ProtocolIE-ID ::= 10
id-Cause                        ProtocolIE-ID ::= 13
id-CCP-InformationItem-AuditRsp ProtocolIE-ID ::= 14
id-CCP-InformationList-AuditRsp ProtocolIE-ID ::= 15
id-CCP-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 16
id-Cell-InformationItem-AuditRsp ProtocolIE-ID ::= 17
id-Cell-InformationItem-ResourceStatusInd ProtocolIE-ID ::= 18
id-Cell-InformationList-AuditRsp ProtocolIE-ID ::= 19
id-CellParameterID              ProtocolIE-ID ::= 23
id-CFN                          ProtocolIE-ID ::= 24
id-C-ID                          ProtocolIE-ID ::= 25
id-CommonMeasurementAccuracy     ProtocolIE-ID ::= 39
id-CommonMeasurementObjectType-CM-Rprt ProtocolIE-ID ::= 31
id-CommonMeasurementObjectType-CM-Rqst ProtocolIE-ID ::= 32
id-CommonMeasurementObjectType-CM-Rsp ProtocolIE-ID ::= 33
id-CommonMeasurementType         ProtocolIE-ID ::= 34
id-CommonPhysicalChannelID       ProtocolIE-ID ::= 35
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD ProtocolIE-ID ::= 36
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD ProtocolIE-ID ::= 37
id-CommunicationControlPortID    ProtocolIE-ID ::= 40
id-ConfigurationGenerationID     ProtocolIE-ID ::= 43
id-CRNC-CommunicationContextID   ProtocolIE-ID ::= 44
id-CriticalityDiagnostics        ProtocolIE-ID ::= 45
id-DCHs-to-Add-FDD              ProtocolIE-ID ::= 48
id-DCH-AddList-RL-ReconfPrepTDD ProtocolIE-ID ::= 49
id-DCHs-to-Add-TDD              ProtocolIE-ID ::= 50

```

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id-DCH-DeleteList-RL-ReconfPrepFDD  
id-DCH-DeleteList-RL-ReconfPrepTDD  
id-DCH-DeleteList-RL-ReconfRqstFDD  
id-DCH-DeleteList-RL-ReconfRqstTDD  
id-DCH-FDD-Information  
id-DCH-TDD-Information  
id-DCH-InformationResponse  
id-FDD-DCHs-to-Modify  
id-TDD-DCHs-to-Modify  
id-DCH-ModifyList-RL-ReconfRqstTDD  
id-DCH-RearrangeList-Bearer-RearrangeInd  
id-DedicatedMeasurementObjectType-DM-Rprt  
id-DedicatedMeasurementObjectType-DM-Rqst  
id-DedicatedMeasurementObjectType-DM-Rsp  
id-DedicatedMeasurementType  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD  
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD  
id-DL-DPCH-InformationList-RL-SetupRqstTDD  
id-DL-DPCH-Information-RL-ReconfPrepFDD  
id-DL-DPCH-Information-RL-ReconfRqstFDD  
id-DL-DPCH-Information-RL-SetupRqstFDD  
id-DL-DPCH-TimingAdjustment  
id-DL-ReferencePowerInformationItem-DL-PC-Rqst  
id-DLReferencePower  
id-DLReferencePowerList-DL-PC-Rqst  
id-DSCH-AddItem-RL-ReconfPrepFDD  
id-DSCHs-to-Add-FDD  
id-DSCH-DeleteItem-RL-ReconfPrepFDD  
id-DSCH-DeleteList-RL-ReconfPrepFDD  
id-DSCHs-to-Add-TDD  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD  
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD  
id-DSCH-InformationResponse  
id-DSCH-FDD-Information  
id-DSCH-TDD-Information  
id-DSCH-ModifyItem-RL-ReconfPrepFDD  
id-DSCH-ModifyList-RL-ReconfPrepFDD  
id-DSCH-RearrangeList-Bearer-RearrangeInd  
id-End-Of-Audit-Sequence-Indicator  
id-FACH-Information  
id-FACH-InformationItem-ResourceStatusInd  
id-FACH-ParametersList-CTCH-ReconfRqstTDD  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD  
id-IndicationType-ResourceStatusInd  
id-Local-Cell-ID  
id-Local-Cell-Group-InformationItem-AuditRsp  
id-Local-Cell-Group-InformationItem-ResourceStatusInd  
id-Local-Cell-Group-InformationItem2-ResourceStatusInd  
id-Local-Cell-Group-InformationList-AuditRsp  
id-Local-Cell-InformationItem-AuditRsp

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ProtocolIE-ID ::= 52  
ProtocolIE-ID ::= 53  
ProtocolIE-ID ::= 54  
ProtocolIE-ID ::= 55  
ProtocolIE-ID ::= 56  
ProtocolIE-ID ::= 57  
ProtocolIE-ID ::= 59  
ProtocolIE-ID ::= 62  
ProtocolIE-ID ::= 63  
ProtocolIE-ID ::= 65  
ProtocolIE-ID ::= 135  
ProtocolIE-ID ::= 67  
ProtocolIE-ID ::= 68  
ProtocolIE-ID ::= 69  
ProtocolIE-ID ::= 70  
ProtocolIE-ID ::= 72  
ProtocolIE-ID ::= 73  
ProtocolIE-ID ::= 76  
ProtocolIE-ID ::= 77  
ProtocolIE-ID ::= 79  
ProtocolIE-ID ::= 81  
ProtocolIE-ID ::= 82  
ProtocolIE-ID ::= 83  
ProtocolIE-ID ::= 21  
ProtocolIE-ID ::= 84  
ProtocolIE-ID ::= 85  
ProtocolIE-ID ::= 86  
ProtocolIE-ID ::= 87  
ProtocolIE-ID ::= 89  
ProtocolIE-ID ::= 91  
ProtocolIE-ID ::= 93  
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ProtocolIE-ID ::= 100  
ProtocolIE-ID ::= 105  
ProtocolIE-ID ::= 106  
ProtocolIE-ID ::= 107  
ProtocolIE-ID ::= 108  
ProtocolIE-ID ::= 112  
ProtocolIE-ID ::= 136  
ProtocolIE-ID ::= 113  
ProtocolIE-ID ::= 116  
ProtocolIE-ID ::= 117  
ProtocolIE-ID ::= 120  
ProtocolIE-ID ::= 121  
ProtocolIE-ID ::= 122  
ProtocolIE-ID ::= 123  
ProtocolIE-ID ::= 124  
ProtocolIE-ID ::= 2  
ProtocolIE-ID ::= 3  
ProtocolIE-ID ::= 4  
ProtocolIE-ID ::= 5  
ProtocolIE-ID ::= 125

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id-Local-Cell-InformationItem-ResourceStatusInd  
id-Local-Cell-InformationItem2-ResourceStatusInd  
id-Local-Cell-InformationList-AuditRsp  
id-AdjustmentPeriod  
id-MaxAdjustmentStep  
id-MaximumTransmissionPower  
id-MeasurementFilterCoefficient  
id-MeasurementID  
id-MessageStructure  
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst  
id-NodeB-CommunicationContextID  
id-NeighbouringCellMeasurementInformation  
id-P-CCPCH-Information  
id-P-CCPCH-InformationItem-ResourceStatusInd  
id-P-CPICH-Information  
id-P-CPICH-InformationItem-ResourceStatusInd  
id-P-SCH-Information  
id-PCCPCH-Information-Cell-ReconfRqstTDD  
id-PCCPCH-Information-Cell-SetupRqstTDD  
id-PCH-Parameters-CTCH-ReconfRqstTDD  
id-PCH-ParametersItem-CTCH-SetupRqstFDD  
id-PCH-ParametersItem-CTCH-SetupRqstTDD  
id-PCH-Information  
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst  
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst  
id-PDSCHSets-AddList-PSCH-ReconfRqst  
id-PDSCHSets-DeleteList-PSCH-ReconfRqst  
id-PDSCHSets-ModifyList-PSCH-ReconfRqst  
id-PICH-Information  
id-PICH-Parameters-CTCH-ReconfRqstTDD  
id-PowerAdjustmentType  
id-PRACH-Information  
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD  
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD  
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD  
id-PrimaryCPICH-Information-Cell-SetupRqstFDD  
id-PrimarySCH-Information-Cell-ReconfRqstFDD  
id-PrimarySCH-Information-Cell-SetupRqstFDD  
id-PrimaryScramblingCode  
id-SCH-Information-Cell-ReconfRqstTDD  
id-SCH-Information-Cell-SetupRqstTDD  
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst  
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst  
id-PUSCHSets-AddList-PSCH-ReconfRqst  
id-PUSCHSets-DeleteList-PSCH-ReconfRqst  
id-PUSCHSets-ModifyList-PSCH-ReconfRqst  
id-RACH-Information  
id-RACH-ParametersItem-CTCH-SetupRqstFDD  
id-RACH-ParameterItem-CTCH-SetupRqstTDD  
id-ReportCharacteristics  
id-Reporting-Object-RL-FailureInd  
id-Reporting-Object-RL-RestoreInd  
id-RL-InformationItem-DM-Rprt

ProtocolIE-ID ::= 126  
ProtocolIE-ID ::= 127  
ProtocolIE-ID ::= 128  
ProtocolIE-ID ::= 129  
ProtocolIE-ID ::= 130  
ProtocolIE-ID ::= 131  
ProtocolIE-ID ::= 132  
ProtocolIE-ID ::= 133  
ProtocolIE-ID ::= 115  
ProtocolIE-ID ::= 134  
ProtocolIE-ID ::= 143  
ProtocolIE-ID ::= 455  
ProtocolIE-ID ::= 144  
ProtocolIE-ID ::= 145  
ProtocolIE-ID ::= 146  
ProtocolIE-ID ::= 147  
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ProtocolIE-ID ::= 198  
ProtocolIE-ID ::= 199  
ProtocolIE-ID ::= 200  
ProtocolIE-ID ::= 202

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id-RL-InformationItem-DM-Rqst  
id-RL-InformationItem-DM-Rsp  
id-RL-InformationItem-RL-AdditionRqstFDD  
id-RL-informationItem-RL-DeletionRqst  
id-RL-InformationItem-RL-FailureInd  
id-RL-InformationItem-RL-PreemptRequiredInd  
id-RL-InformationItem-RL-ReconfPrepFDD  
id-RL-InformationItem-RL-ReconfRqstFDD  
id-RL-InformationItem-RL-RestoreInd  
id-RL-InformationItem-RL-SetupRqstFDD  
id-RL-InformationList-RL-AdditionRqstFDD  
id-RL-informationList-RL-DeletionRqst  
id-RL-InformationList-RL-PreemptRequiredInd  
id-RL-InformationList-RL-ReconfPrepFDD  
id-RL-InformationList-RL-ReconfRqstFDD  
id-RL-InformationList-RL-SetupRqstFDD  
id-RL-InformationResponseItem-RL-AdditionRspFDD  
id-RL-InformationResponseItem-RL-ReconfReady  
id-RL-InformationResponseItem-RL-ReconfRsp  
id-RL-InformationResponseItem-RL-SetupRspFDD  
id-RL-InformationResponseList-RL-AdditionRspFDD  
id-RL-InformationResponseList-RL-ReconfReady  
id-RL-InformationResponseList-RL-ReconfRsp  
id-RL-InformationResponseList-RL-SetupRspFDD  
id-RL-InformationResponse-RL-AdditionRspTDD  
id-RL-InformationResponse-RL-SetupRspTDD  
id-RL-Information-RL-AdditionRqstTDD  
id-RL-Information-RL-ReconfRqstTDD  
id-RL-Information-RL-ReconfPrepTDD  
id-RL-Information-RL-SetupRqstTDD  
id-RL-ReconfigurationFailureItem-RL-ReconfFailure  
id-RL-Set-InformationItem-DM-Rprt  
id-RL-Set-InformationItem-DM-Rsp  
id-RL-Set-InformationItem-RL-FailureInd  
id-RL-Set-InformationItem-RL-RestoreInd  
id-S-CCPCH-Information  
id-S-CPICH-Information  
id-SCH-Information  
id-S-SCH-Information  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD  
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD  
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD  
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD  
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD  
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD  
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD  
id-SecondarySCH-Information-Cell-ReconfRqstFDD  
id-SecondarySCH-Information-Cell-SetupRqstFDD  
id-SegmentInformationListIE-SystemInfoUpdate  
id-SFN  
id-SignallingBearerRequestIndicator  
id-ShutdownTimer  
id-Start-Of-Audit-Sequence-Indicator

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ProtocolIE-ID ::= 203  
ProtocolIE-ID ::= 204  
ProtocolIE-ID ::= 205  
ProtocolIE-ID ::= 206  
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ProtocolIE-ID ::= 268  
ProtocolIE-ID ::= 138  
ProtocolIE-ID ::= 269  
ProtocolIE-ID ::= 114

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id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD  
id-SyncCase  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH  
id-T-Cell  
id-TargetCommunicationControlPortID  
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD  
id-TimeSlotConfigurationList-Cell-SetupRqstTDD  
id-TransmissionDiversityApplied  
id-TypeOfError  
id-UARFCNforNt  
id-UARFCNforNd  
id-UARFCNforNu  
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD  
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD  
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD  
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD  
id-UL-DPCH-InformationList-RL-SetupRqstTDD  
id-UL-DPCH-Information-RL-ReconfPrepFDD  
id-UL-DPCH-Information-RL-ReconfRqstFDD  
id-UL-DPCH-Information-RL-SetupRqstFDD  
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD  
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD  
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD  
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD  
id-USCH-Information-Add  
id-USCH-Information-DeleteList-RL-ReconfPrepTDD  
id-USCH-Information-ModifyList-RL-ReconfPrepTDD  
id-USCH-InformationResponse  
id-USCH-Information  
id-USCH-RearrangeList-Bearer-RearrangeInd  
id-Active-Pattern-Sequence-Information  
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD  
id-AdjustmentRatio  
id-Not-Used-320~~AP-AICH-Information~~  
id-Not-Used-322~~AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD~~  
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD  
id-CauseLevel-PSCH-ReconfFailure  
id-CauseLevel-RL-AdditionFailureFDD  
id-CauseLevel-RL-AdditionFailureTDD  
id-CauseLevel-RL-ReconfFailure  
id-CauseLevel-RL-SetupFailureFDD  
id-CauseLevel-RL-SetupFailureTDD  
id-Not-Used-330~~CDCA-ICH-Information~~  
id-Not-Used-332~~CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD~~  
id-Closed-Loop-Timing-Adjustment-Mode  
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD  
id-Compressed-Mode-Deactivation-Flag  
id-Not-Used-336~~CPCH-Information~~  
id-Not-Used-342~~CPCH-Parameters-CTCH-SetupRsp~~  
id-Not-Used-343~~CPCH-ParametersListIE-CTCH-ReconfRqstFDD~~  
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD  
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD

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ProtocolIE-ID ::= 270  
ProtocolIE-ID ::= 271  
ProtocolIE-ID ::= 274  
ProtocolIE-ID ::= 275  
ProtocolIE-ID ::= 276  
ProtocolIE-ID ::= 139  
ProtocolIE-ID ::= 277  
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ProtocolIE-ID ::= 343  
ProtocolIE-ID ::= 346  
ProtocolIE-ID ::= 347

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id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD  
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD  
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD  
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD  
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD  
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD  
id-DL-TPC-Pattern01Count  
id-DPC-Mode  
id-DPCHConstant  
id-DSCH-FDD-Common-Information  
id-EnhancedDSCHPC  
id-EnhancedDSCHPCIndicator  
id-FACH-ParametersList-CTCH-SetupRsp  
id-Limited-power-increase-information-Cell-SetupRqstFDD  
id-PCH-Parameters-CTCH-SetupRsp  
id-PCH-ParametersItem-CTCH-ReconfRqstFDD  
id-Not-Used-376PCPCH-Information-  
id-PICH-ParametersItem-CTCH-ReconfRqstFDD  
id-PRACHConstant  
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD  
id-PUSCHConstant  
id-RACH-Parameters-CTCH-SetupRsp  
id-SSDT-CellIDforEDSCHPC  
id-Synchronisation-Configuration-Cell-ReconfRqst  
id-Synchronisation-Configuration-Cell-SetupRqst  
id-Transmission-Gap-Pattern-Sequence-Information  
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD  
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD  
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD  
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD  
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD  
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD  
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD  
id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD  
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD  
id-CommunicationContextInfoItem-Reset  
id-CommunicationControlPortInfoItem-Reset  
id-ResetIndicator  
id-TFCl2-Bearer-Information-RL-SetupRqstFDD  
id-TFCl2-BearerSpecificInformation-RL-ReconfPrepFDD  
id-TFCl2-BearerInformationResponse  
id-TFCl2BearerRequestIndicator  
id-TimingAdvanceApplied  
id-CFNReportingIndicator  
id-SFNReportingIndicator  
id-InnerLoopDLPCStatus

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ProtocolIE-ID ::= 348  
ProtocolIE-ID ::= 349  
ProtocolIE-ID ::= 350  
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ProtocolIE-ID ::= 6  
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ProtocolIE-ID ::= 12

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id-TimeslotISCPInfo  
id-PICH-ParametersItem-CTCH-SetupRqstTDD  
id-PRACH-ParametersItem-CTCH-SetupRqstTDD  
id-CCTrCH-InformationItem-RL-FailureInd  
id-CCTrCH-InformationItem-RL-RestoreInd  
id-CauseLevel-SyncAdjustmntFailureTDD  
id-CellAdjustmentInfo-SyncAdjustmntRqstTDD  
id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD  
id-CellSyncBurstInfoList-CellSyncReconfRqstTDD  
id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD  
id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD  
id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD  
id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD  
id-CellSyncBurstTransInfoList-CellSyncReconfRqstTDD  
id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD  
id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD  
id-CellSyncInfo-CellSyncReprtTDD  
id-CSBTransmissionID  
id-CSBMeasurementID  
id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD  
id-NCyclesPerSFNperiod  
id-NRepetitionsPerCyclePeriod  
id-SyncFrameNumber  
id-SynchronisationReportType  
id-SynchronisationReportCharacteristics  
id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD  
id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD  
id-ReferenceClockAvailability  
id-ReferenceSFNoffset  
id-InformationExchangeID  
id-InformationExchangeObjectType-InfEx-Rqst  
id-InformationType  
id-InformationReportCharacteristics  
id-InformationExchangeObjectType-InfEx-Rsp  
id-InformationExchangeObjectType-InfEx-Rprt  
id-IPDLParameter-Information-Cell-ReconfRqstFDD  
id-IPDLParameter-Information-Cell-SetupRqstFDD  
id-IPDLParameter-Information-Cell-ReconfRqstTDD  
id-IPDLParameter-Information-Cell-SetupRqstTDD  
id-DL-DPCH-LCR-Information-RL-SetupRqstTDD  
id-DwPCH-LCR-Information  
id-DwPCH-LCR-InformationList-AuditRsp  
id-DwPCH-LCR-Information-Cell-SetupRqstTDD  
id-DwPCH-LCR-Information-Cell-ReconfRqstTDD  
id-DwPCH-LCR-Information-ResourceStatusInd  
id-maxFACH-Power-LCR-CTCH-SetupRqstTDD  
id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD  
id-FPACH-LCR-Information  
id-FPACH-LCR-Information-AuditRsp  
id-FPACH-LCR-InformationList-AuditRsp  
id-FPACH-LCR-InformationList-ResourceStatusInd  
id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD  
id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD

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ProtocolIE-ID ::= 283  
ProtocolIE-ID ::= 167  
ProtocolIE-ID ::= 20  
ProtocolIE-ID ::= 46  
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id-PCCPCH-LCR-Information-Cell-SetupRqstTDD  
id-PCH-Power-LCR-CTCH-SetupRqstTDD  
id-PCH-Power-LCR-CTCH-ReconfRqstTDD  
id-PICH-LCR-Parameters-CTCH-SetupRqstTDD  
id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD  
id-RL-InformationResponse-LCR-RL-SetupRspTDD  
id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD  
id-TimeSlot  
id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD  
id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD  
id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD  
id-TimeSlotLCR-CM-Rqst  
id-UL-DPCH-LCR-Information-RL-SetupRqstTDD  
id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD  
id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD  
id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD  
id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD  
id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD  
id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD  
id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD  
id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD  
id-UL-DPCH-LCR-InformationModify-AddList  
id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD  
id-UL-SIRTarget  
id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst  
id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst  
id-PDSCH-Information-Cell-SetupRqstFDD  
id-PDSCH-Information-Cell-ReconfRqstFDD  
id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst  
id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst  
id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst  
id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst  
id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst  
id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst  
id-timeslotInfo-CellSyncInitiationRqstTDD  
id-SyncReportType-CellSyncReprtTDD  
id-Power-Local-Cell-Group-InformationItem-AuditRsp  
id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd  
id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd  
id-Power-Local-Cell-Group-InformationList-AuditRsp  
id-Power-Local-Cell-Group-InformationList-ResourceStatusInd  
id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd  
id-Power-Local-Cell-Group-ID  
id-PUSCH-Info-DM-Rqst  
id-PUSCH-Info-DM-Rsp  
id-PUSCH-Info-DM-Rprt  
id-InitDL-Power  
id-cellSyncBurstRepetitionPeriod  
id-ReportCharacteristicsType-OnModification  
id-SFNFSNMeasurementValueInformation  
id-SFNFSNMeasurementThresholdInformation  
id-TUTRANGPSMeasurementValueInformation  
id-TUTRANGPSMeasurementThresholdInformation

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ProtocolIE-ID ::= 456  
ProtocolIE-ID ::= 457  
ProtocolIE-ID ::= 458  
ProtocolIE-ID ::= 459  
ProtocolIE-ID ::= 461  
ProtocolIE-ID ::= 463  
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ProtocolIE-ID ::= 515  
ProtocolIE-ID ::= 516

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id-Rx-Timing-Deviation-Value-LCR  
id-RL-InformationResponse-LCR-RL-AdditionRspTDD  
id-DL-PowerBalancing-Information  
id-DL-PowerBalancing-ActivationIndicator  
id-DL-PowerBalancing-UpdatedIndicator  
id-CCTrCH-Initial-DL-Power-RL-SetupRqstTDD  
id-CCTrCH-Initial-DL-Power-RL-AdditionRqstTDD  
id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD  
id-IPDLParameter-Information-LCR-Cell-SetupRqstTDD  
id-IPDLParameter-Information-LCR-Cell-ReconfRqstTDD  
id-HS-PDSCH-HS-SCCH-MaxPower-PSCH-ReconfRqst  
id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRqst  
id-HS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst  
id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRqst  
id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst  
id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst  
id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst  
id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst  
id-bindingID  
id-RL-Specific-DCH-Info  
id-transportlayeraddress  
id-DelayedActivation  
id-DelayedActivationList-RL-ActivationCmdFDD  
id-DelayedActivationInformation-RL-ActivationCmdFDD  
id-DelayedActivationList-RL-ActivationCmdTDD  
id-DelayedActivationInformation-RL-ActivationCmdTDD  
id-neighbouringTDDCellMeasurementInformationLCR  
id-SYNCDLCodeId-TransInitLCR-CellSyncInitiationRqstTDD  
id-SYNCDLCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD  
id-SYNCDLCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD  
id-SYNCDLCodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD  
id-SYNCDLCodeIdMeasInfoList-CellSyncReconfRqstTDD  
id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD  
id-SyncDLCodeIdThreInfoLCR  
id-NSubCyclesPerCyclePeriod-CellSyncReconfRqstTDD  
id-DwPCH-Power  
id-AccumulatedClockupdate-CellSyncReprtTDD  
id-Angle-Of-Arrival-Value-LCR  
id-HSDSCH-FDD-Information  
id-HSDSCH-FDD-Information-Response  
id-HSDSCH-Information-to-Modify  
id-HSDSCH-RNTI  
id-HSDSCH-TDD-Information  
id-HSDSCH-TDD-Information-Response  
id-HSPDSCH-RL-ID  
id-PrimCCPCH-RSCP-DL-PC-RqstTDD  
id-Qth-Parameter  
id-PDSCH-RL-ID  
id-HSDSCH-RearrangeList-Bearer-RearrangeInd  
id-UL-Synchronisation-Parameters-LCR  
id-HSDSCH-FDD-Update-Information  
id-HSDSCH-TDD-Update-Information  
id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD

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ProtocolIE-ID ::= 520  
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id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD	ProtocolIE-ID ::= 559
id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD	ProtocolIE-ID ::= 560
id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::= 561
id-TDD-TPC-DownlinkStepSize-RL-AdditionRqstTDD	ProtocolIE-ID ::= 562
id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD	ProtocolIE-ID ::= 563
id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD	ProtocolIE-ID ::= 564
id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 565
id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD	ProtocolIE-ID ::= 566
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id-CCTrCH-Maximum-DL-Power-RL-AdditionRqstTDD	ProtocolIE-ID ::= 569
id-CCTrCH-Minimum-DL-Power-RL-AdditionRqstTDD	ProtocolIE-ID ::= 570
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id-CCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD	ProtocolIE-ID ::= 572
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id-Maximum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 575
id-Minimum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 576
id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 577
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD	ProtocolIE-ID ::= 578
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRqstTDD	ProtocolIE-ID ::= 579
id-Initial-DL-Power-TimeSlotLCR-InformationItem	ProtocolIE-ID ::= 580
id-Maximum-DL-Power-TimeSlotLCR-InformationItem	ProtocolIE-ID ::= 581
id-Minimum-DL-Power-TimeSlotLCR-InformationItem	ProtocolIE-ID ::= 582
id-HS-DSCHProvidedBitRateValueInformation	ProtocolIE-ID ::= 583
id-HS-DSCHRequiredPowerValueInformation	ProtocolIE-ID ::= 585
id-HS-DSCHRequiredPowerValue	ProtocolIE-ID ::= 586
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHorHS-SCCHTransmission	ProtocolIE-ID ::= 587
id-HS-SICH-Reception-Quality	ProtocolIE-ID ::= 588
id-HS-SICH-Reception-Quality-Measurement-Value	ProtocolIE-ID ::= 589
id-HSSICH-Info-DM-Rprt	ProtocolIE-ID ::= 590
id-HSSICH-Info-DM-Rqst	ProtocolIE-ID ::= 591
id-HSSICH-Info-DM-Rsp	ProtocolIE-ID ::= 592
id-Best-Cell-Portions-Value	ProtocolIE-ID ::= 593
id-Primary-CPICH-Usage-for-Channel-Estimation	ProtocolIE-ID ::= 594
id-Secondary-CPICH-Information-Change	ProtocolIE-ID ::= 595
id-NumberOfReportedCellPortions	ProtocolIE-ID ::= 596
id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 599
id-Unidirectional-DCH-Indicator	ProtocolIE-ID ::= 602
id-TimingAdjustmentValueLCR	ProtocolIE-ID ::= 603
id-multipleRL-dl-DPCH-InformationList	ProtocolIE-ID ::= 604
id-multipleRL-dl-DPCH-InformationModifyList	ProtocolIE-ID ::= 605
id-multipleRL-ul-DPCH-InformationList	ProtocolIE-ID ::= 606
id-multipleRL-ul-DPCH-InformationModifyList	ProtocolIE-ID ::= 607
id-RL-ID	ProtocolIE-ID ::= 608
id-SAT-Info-Almanac-ExtItem	ProtocolIE-ID ::= 609
id-HSDPA-Capability	ProtocolIE-ID ::= 610
id-HSDSCH-Resources-Information-AuditRsp	ProtocolIE-ID ::= 611
id-HSDSCH-Resources-Information-ResourceStatusInd	ProtocolIE-ID ::= 612
id-HSDSCH-MACdFlows-to-Add	ProtocolIE-ID ::= 613
id-HSDSCH-MACdFlows-to-Delete	ProtocolIE-ID ::= 614
id-HSDSCH-Information-to-Modify-Unsynchronised	ProtocolIE-ID ::= 615
id-TnlQos	ProtocolIE-ID ::= 616

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id-PrimaryCCPCH-RSCP-Delta  
id-Tstd-indicator  
id-multiple-RL-Information-RL-ReconfPrepTDD  
id-multiple-RL-Information-RL-ReconfRqstTDD

END

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ProtocolIE-ID ::= 623  
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ProtocolIE-ID ::= 628  
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3GPP TSG-RAN WG3 Meeting #47  
Athens, Greece, 9th- 13th May 2005

Tdoc # R3-050789

<small>CR-Form-v7.1</small>	
<b>CHANGE REQUEST</b>	
⌘ <b>25.433 CR 1099</b> ⌘ rev <b>2</b> ⌘	Current version: <b>6.5.0</b> ⌘

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

**Proposed change affects:** UICC apps ⌘  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘	Feature Cleanup: Removal of CPCH
<b>Source:</b>	⌘	RAN3
<b>Work item code:</b>	⌘	TEI5
		<b>Date:</b> ⌘ 12/05/2005
<b>Category:</b>	⌘	<b>C</b>
		<b>Release:</b> ⌘ Rel-6
		Use <u>one</u> of the following categories:
		<i>F</i> (correction)
		<i>A</i> (corresponds to a correction in an earlier release)
		<i>B</i> (addition of feature),
		<i>C</i> (functional modification of feature)
		<i>D</i> (editorial modification)
		Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .
		Use <u>one</u> of the following releases:
		<i>Ph2</i> (GSM Phase 2)
		<i>R96</i> (Release 1996)
		<i>R97</i> (Release 1997)
		<i>R98</i> (Release 1998)
		<i>R99</i> (Release 1999)
		<i>Rel-4</i> (Release 4)
		<i>Rel-5</i> (Release 5)
		<i>Rel-6</i> (Release 6)

**Reason for change:** ☘ At RAN Plenary #27 it was decided to remove the feature: CPCH from this version of protocol.

**Summary of change:** ☘ Rev 2:  
- Removed criticality EACH for removed elements in RESOURCE STATUS INDICATION + AUDIT RESPONSE.  
- Changed comment: ignore -> reject for COMMON TRANSPORT CH RECONFIG  
- Renamed Enum "item" to "value".  
- Removed "ignore if received" in COMMON MEASUREMENT INIT RESPONSE / REPORT

Rev 1:  
Updated to reflect agreements on style:

- Tabular format to reflect ASN.1: Choices/NULL kept in Tabular, SequenceItems/NULL kept in Tabular  
- Naming of removed IEs (NotUsed-1 etc) harmonized with other specs, and between ASN.1 and tabular (so cross-ref tabular/ASN.1 is easy).

Rev 0:  
Removal of CPCH

**Consequences if not approved:** ⌘ The decision taken at RAN Plenary #27 to remove this feature is violated

**Clauses affected:** ⌘ 3.3  
8.2.1.1, 8.2.1.2, 8.2.1.4, 8.2.2.2, 8.2.3.2, 8.2.8.2  
9.1.3.1, 9.1.4, 9.1.6.1, 9.1.17, 9.1.18, 9.1.19, 9.1.21, 9.1.32  
9.2.1.6, 9.2.1.9A, 9.2.1.11, 9.2.1.12, 9.2.1.21, 9.2.1.43, 9.2.1.44, 9.2.1.58  
9.2.2.1A, 9.2.2.1B, 9.2.2.1C, 9.2.2.1D, 9.2.2.4A, 9.2.2.4B, 9.2.2.4C



9.2.2.20A, 9.2.2.23A, 9.2.2.23B, 9.2.2.23C, 9.2.2.24A

<b>Other specs</b>	⌘	<table border="1"><tr><th>Y</th><th>N</th></tr><tr><td>X</td><td></td></tr></table>	Y	N	X		Other core specifications	⌘	25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.420, 25.423, 25.424, 25.425, 25.430, 25.434, 25.435
	Y	N							
X									
<b>affected:</b>		<table border="1"><tr><td>X</td><td></td></tr><tr><td></td><td>X</td></tr></table>	X			X	Test specifications O&M Specifications		34.108, 34.123
	X								
	X								
<b>Other comments:</b>	⌘								

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

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

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. 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

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

A-GPS	Assisted GPS
AICH	Acquisition Indicator Channel
ALCAP	Access Link Control Application Part
<del>AP-AICH</del>	<del>Access Preamble Acquisition Indicator Channel</del>
ASN.1	Abstract Syntax Notation One
BCCH	Broadcast Control Channel
CCPCH	Common Control Physical Channel
CFN	Connection Frame Number
CM	Compressed Mode
<del>CPCH</del>	<del>Common Packet Channel</del>
CPICH	Common Pilot Channel
CRNC	Controlling Radio Network Controller
<del>CSICH</del>	<del>CPCH Status Indicator Channel</del>
DCH	Dedicated Channel
DGPS	Differential GPS
DL	Downlink
DPCCH	Dedicated Physical Control Channel
DPCH	Dedicated Physical Channel
DPDCH	Dedicated Physical Data Channel
DSCH	Downlink Shared Channel
E-DCH	Enhanced UL DCH
FACH	Forward Access Channel
FDD	Frequency Division Duplex
F-DPCH	Fractional DPCH
FP	Frame Protocol
GPS	Global Positioning System
HSDPA	High Speed Downlink Packet Access
HS-DSCH	High Speed Downlink Shared Channel
HS-PDSCH	High Speed Physical Downlink Shared Channel
HS-SCCH	High Speed Shared Control Channel
HS-SICH	High Speed Shared Information Channel
IP	Internet Protocol
IPDL	Idle Periods in the DownLink
ISCP	Interference Signal Code Power
L1	Layer 1
L2	Layer 2
MIB	Master Information Block
MICH	MBMS Notification Indicator Channel
NBAP	Node B Application Part
NI	MBMS Notification Indicator
O&M	Operation and Maintenance
PCCPCH	Primary Common Control Physical Channel
PCH	Paging Channel
<del>PCPCH</del>	<del>Physical Common Packet Channel</del>
PDSCH	Physical Downlink Shared Channel
PICH	Paging Indication Channel
PUSCH	Physical Uplink Shared Channel
RACH	Random Access Channel
RL	Radio Link
RLS	Radio Link Set
RNC	Radio Network Controller
RRC	Radio Resource Control
SB	Scheduling Block
SCCPCH	Secondary Common Control Physical Channel
SCH	Synchronisation Channel
SCTD	Space Code Transmit Diversity

SIB	System Information Block
SRNC	Serving Radio Network Controller
SSDT	Site Selection Diversity Transmission
STTD	Space Time Transmit Diversity
TDD	Time Division Duplex
TFC	Transport Format Combination
TFCI	Transport Format Combination Indicator
TFCS	Transport Format Combination Set
TFS	Transport Format Set
TPC	Transmit Power Control
TSTD	Time Switched Transmit Diversity
UARFCN	UTRA Absolute Radio Frequency Channel Number
UDP	User Datagram Protocol
UE	User Equipment
UL	Uplink
UMTS	Universal Mobile Telecommunications System
USCH	Uplink Shared Channel
UTRA	Universal Terrestrial Radio Access
UTRAN	Universal Terrestrial Radio Access Network

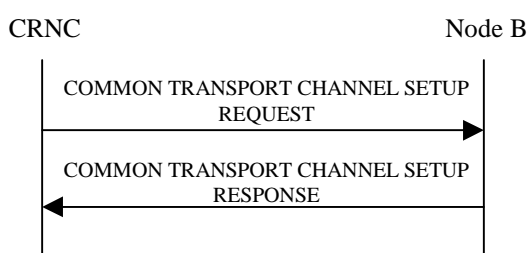
## 8.2 NBAP Common Procedures

### 8.2.1 Common Transport Channel Setup

#### 8.2.1.1 General

This procedure is used for establishing the necessary resources in Node B, regarding Secondary CCPCH, PICH, PRACH, ~~PCPCH [FDD], AICH [FDD], AP\_AICH [FDD], CD/CA ICH [FDD]~~, FACH, PCH, RACH, and FPACH [1.28Mcps TDD] ~~and CPCH [FDD]~~.

#### 8.2.1.2 Successful Operation



**Figure 1: Common Transport Channel Setup procedure, Successful Operation**

The procedure is initiated with a COMMON TRANSPORT CHANNEL SETUP REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

One message can configure only one of the following combinations:

- [FDD - one Secondary CCPCH, and FACHs, PCH, PICH and MICH related to that Secondary CCPCH], or
- [TDD - one CCTrCH consisting of Secondary CCPCHs and FACHs, PCH with the corresponding PICH and MICH related to that group of Secondary CCPCHs], or
- one [1.28Mcps TDD - or more] PRACH, one RACH and one AICH [FDD] and one FPACH[1.28Mcps TDD] related to that PRACH.

~~— [FDD - PCPCHs, one CPCH, one AP\_AICH and one CD/CA ICH related to that group of PCPCHs.]~~

#### Secondary CCPCH:

[FDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Secondary CCPCH* IE, the Node B shall configure and activate the indicated Secondary CCPCH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.]

[TDD - When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Secondary CCPCH* IE, the Node B shall configure and activate the indicated Secondary CCPCH(s) according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.]

[TDD - FACHs and PCH may be mapped onto a CCTrCH which may consist of several Secondary CCPCHs]

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *FACH Parameters* IE, the Node B shall configure and activate the indicated FACH(s) according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *PCH Parameters* IE, the Node B shall configure and activate the concerned PCH and the associated PICH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

[1.28Mcps TDD - If the *PCH Power* IE is included in the *PCH Parameters* IE of the COMMON TRANSPORT CHANNEL SETUP REQUEST, the Node B shall use this value as the power at which the PCH shall be transmitted.]

[TDD - If the *TSTD Indicator* IE for the S-CCPCH is included and is set to "active" in the COMMON TRANSPORT CHANNEL SETUP REQUEST, the Node B shall activate TSTD diversity for all S-CCPCHs defined in the message that are not beacon channels [19,21]. If the *TSTD Indicator* IE is not included or is set to "not active" in the COMMON TRANSPORT CHANNEL SETUP REQUEST, the Node B shall not activate TSTD diversity for the S-CCPCHs defined in the message.]

[1.28Mcps TDD - If the *TSTD Indicator* IE for the PICH is included and is set to "active" in the COMMON TRANSPORT CHANNEL SETUP REQUEST message, the Node B shall activate TSTD diversity for the PICH if it is not a beacon channel [19,21]. If the *TSTD Indicator* IE is set to "not active" or the *TSTD Indicator* IE is not included for the PICH in the COMMON TRANSPORT CHANNEL SETUP REQUEST message, the Node B shall not activate TSTD diversity for the PICH.]

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *MICH Parameters* IE, the Node B shall configure and activate the concerned MICH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

#### **PRACH:**

When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *PRACH* IE, the Node B shall configure and activate the indicated PRACH and the associated RACH [FDD - and the associated AICH] according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

#### **[1.28Mcps TDD - FPACH]:**

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *FPACH* IE, the Node B shall configure and activate the indicated FPACH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

Where more than one FPACH is defined, the FPACH that Node B should use is defined by the UpPCH signature (SYNC\_UL) code that the UE used. The FPACH number =  $N \bmod M$  where N denotes the signature number (0..7) and M denotes the number of FPACHs that are defined in a cell. The FPACH number is in ascending order by *Common Physical Channel ID* IE contained in the COMMON TRANSPORT CHANNEL SETUP REQUEST message.

#### ~~**[FDD – PCPCHs]:**~~

~~When the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *CPCH Parameters* IE, the Node B shall configure and activate the indicated CPCH and the associated PCPCH(s), AP AICH and CD/CA ICH according to the COMMON TRANSPORT CHANNEL SETUP REQUEST message.~~

~~If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes *CD Signatures* IE, the Node B may use only the given CD signatures on CD/CA ICH. Otherwise, the Node B may use all the CD signatures on CD/CA ICH.~~

~~If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes *CD Sub Channel Numbers* IE, the Node B may use only the given CD Sub Channels on CD/CA ICH. Otherwise, the Node B may use all the CD Sub Channels on CD/CA ICH.~~

~~If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes *Channel Request Parameters* IE, the Node B shall use the parameters to distinguish the PCPCHs.~~

~~If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes *AP Sub Channel Number* IE in *Channel Request Parameters* IE, the Node B shall use only these AP sub channel number to distinguish the configured PCPCH. Otherwise all AP subchannel numbers are used to distinguish the configured PCPCH.~~

~~If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes *AP Sub Channel Number* IE in *SF Request Parameters* IE, the Node B shall use only these AP sub channel number to distinguish the requested Spreading Factors. Otherwise all AP subchannel numbers are used to distinguish the configured Spreading Factor.~~

#### **General:**

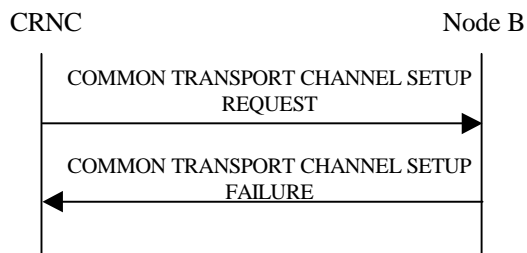
After successfully configuring the requested common transport channels and the common physical channels, the Node B shall store the value of *Configuration Generation ID* IE and it shall respond with the COMMON TRANSPORT

CHANNEL SETUP RESPONSE message with the *Common Transport Channel ID IE*, the *Binding ID IE* and the *Transport Layer Address IE* for the configured common transport channels.

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message includes the *Transport Layer Address* and *Binding ID IEs*, the Node B may use the transport layer address and the binding identifier received from the CRNC when establishing a transport bearer for the indicated common transport channels.

After a successful procedure and once the transport bearers are established, the configured common transport channels and the common physical channels shall adopt the state Enabled [6] in the Node B and the common physical channels exist on the Uu interface.

### 8.2.1.3 Unsuccessful Operation



**Figure 2: Common Transport Channel Setup procedure, Unsuccessful Operation**

If the Node B is not able to support all or part of the configuration, it shall reject the configuration of all the channels in the COMMON TRANSPORT CHANNEL SETUP REQUEST message. The channels in the COMMON TRANSPORT CHANNEL SETUP REQUEST message shall remain in the same state as prior to the procedure. The *Cause IE* shall be set to an appropriate value. The value of *Configuration Generation ID IE* from the COMMON TRANSPORT CHANNEL SETUP REQUEST message shall not be stored.

If the configuration was unsuccessful, the Node B shall respond with a COMMON TRANSPORT CHANNEL SETUP FAILURE message.

Typical cause values are as follows:

#### **Radio Network Layer Cause:**

- Cell not available
- Power level not supported
- Node B Resources unavailable
- Requested Tx Diversity Mode not supported
- UL SF not supported
- DL SF not supported
- Common Transport Channel Type not supported
- MICH not supported

#### **Transport Layer Cause:**

- Transport Resources Unavailable

#### **Miscellaneous Cause:**

- O&M Intervention
- Control processing overload
- HW failure

### 8.2.1.4 Abnormal Conditions

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Secondary CCPCH* IE, and that IE contains [FDD - neither the *FACH Parameters* IE nor the *PCH Parameters* IE] [TDD – neither the *FACH* IE nor the *PCH* IE], the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

~~[FDD – If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *CD Sub Channel Numbers* IE, but the *CD Signatures* IE is not present, then the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.]~~

[TDD - If the *FACH CTrCH Id* IE or the *PCH CTrCH Id* IE does not equal the *SCCPCH CTrCH Id* IE, the Node B shall regard the Common Transport Channel Setup procedure as having failed and the Node B shall send the COMMON TRANSPORT CHANNEL SETUP FAILURE message to the CRNC.]

[TDD - If the *TDD Physical Channel Offset* IE, the *Repetition Period* IE, and the *Repetition Length* IE are not equal for each SCCPCH configured within the CTrCH, the Node B shall regard the Common Transport Channel Setup procedure as having failed and the Node B shall send the COMMON TRANSPORT CHANNEL SETUP FAILURE message to the CRNC.]

[1.28Mcps TDD - If the *Common Transport Channel ID* IE, and the *Transport Format Set* IE are not equal for each RACH configured in PRACH, the Node B shall regard the Common Transport Channel Setup procedure as having failed and the Node B shall send the COMMON TRANSPORT CHANNEL SETUP FAILURE message to the CRNC.]

If the state is already Enabled or Disabled [6] for at least one channel in the COMMON TRANSPORT CHANNEL SETUP REQUEST message which is received, the Node B shall reject the configuration of all channels with the *Cause* IE set to "Message not compatible with receiver state".

If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *Transport Layer Address* IE or the *Binding ID* IE, and not both are present for a transport channel intended to be established, the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

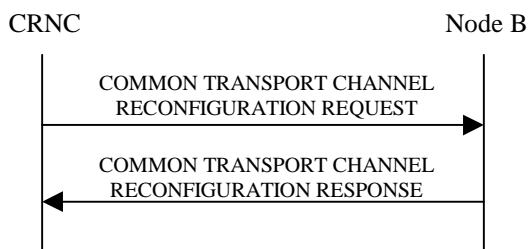
If the COMMON TRANSPORT CHANNEL SETUP REQUEST message contains the *MICH Parameters* IE but not the *FACH Parameters* IE [FDD – for one S-CCPCH], the Node B shall reject the procedure using the COMMON TRANSPORT CHANNEL SETUP FAILURE message.

## 8.2.2 Common Transport Channel Reconfiguration

### 8.2.2.1 General

This procedure is used for reconfiguring common transport channels and/or common physical channels, while they still might be in operation.

### 8.2.2.2 Successful Operation



**Figure 3: Common Transport Channel Reconfiguration, Successful Operation**

The procedure is initiated with a COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

One message can configure only one of the following combinations:

- [FDD - FACHs, one PCH, one PICH and/or one MICH related to one Secondary CCPCH], or



- [TDD - one CCTrCH consisting of Secondary CCPCHs and FACHs, PCH with the corresponding PICH and MICH related to that group of Secondary CCPCHs], or
- one RACH and/or one AICH[FDD] )] and/or one FPACH[1.28Mcps TDD] related to one PRACH, or

~~— [FDD - one CPCH and/or one AP-AICH and/or one CD/CA-ICH related to one CPCH].~~

#### **SCCPCH:**

[TDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *SCCPCH Power* IE, the Node B shall reconfigure the maximum power that the indicated S-CCPCH shall use.]

#### **FACH:**

If the *FACH Parameters* IE is present, the Node B shall reconfigure the indicated FACH(s).

[FDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max FACH Power* IE, the Node B shall reconfigure the maximum power that the indicated FACH may use.]

[1.28Mcps TDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max FACH Power* IE, the Node B shall reconfigure the maximum power that the indicated FACH may use.]

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWS* IE, the Node B shall reconfigure the time of arrival window startpoint that the indicated FACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWE* IE, the Node B shall reconfigure the time of arrival window endpoint that the indicated FACH shall use.

#### **PCH:**

If the *PCH Parameters* IE is present, the Node B shall reconfigure the indicated PCH.

[FDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PCH Power* IE, the Node B shall reconfigure the power that the PCH shall use.]

[1.28Mcps TDD - If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PCH Power* IE, the Node B shall reconfigure the power that the PCH shall use.]

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWS* IE, the Node B shall reconfigure the time of arrival window startpoint that the PCH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *ToAWE* IE, the Node B shall reconfigure the time of arrival window endpoint that the PCH shall use.

#### **PICH:**

If the *PICH Parameters* IE is present, the Node B shall reconfigure the indicated PICH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *PICH Power* IE, the Node B shall reconfigure the power that the PICH shall use.

#### **MICH:**

If the *MICH Parameters* IE is present, the Node B shall reconfigure the MICH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *MICH Power* IE, the Node B shall reconfigure the power that the MICH shall use.

#### **[FDD - PRACH]:**

If the *PRACH Parameters* IE is present, the Node B shall reconfigure the indicated PRACH(s).

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Preamble Signatures* IE, the Node B shall reconfigure the preamble signatures that the indicated PRACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Allowed Slot Format Information* IE, the Node B shall reconfigure the slot formats that the indicated PRACH shall use.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *RACH Sub Channel Numbers* IE, the Node B shall reconfigure the sub channel numbers that the indicated PRACH shall use.

#### [FDD - AICH]:

If the *AICH Parameters* IE is present, the Node B shall reconfigure the indicated AICH(s).

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *AICH Power* IE, the Node B shall reconfigure the power that the indicated AICH shall use.

#### ~~[FDD - CPCH]:~~

~~If the *CPCH Parameters* IE is present, the Node B shall reconfigure the indicated CPCH.~~

~~If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *UL SIR* IE, the Node B shall reconfigure the UL SIR for the UL power control for the indicated CPCH.~~

~~If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Initial DL Transmission Power* IE, the Node B shall reconfigure the Initial DL Transmission Power for the indicated CPCH.~~

~~If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Maximum DL Power* IE, the Node B shall apply this value to the new configuration of the indicated CPCH and never transmit with a higher power on any DL PCPCHs once the new configuration is being used.~~

~~If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Minimum DL Power* IE, the Node B shall apply this value to the new configuration of the indicated CPCH and never transmit with a lower power on any DL PCPCHs once the new configuration is being used.~~

#### ~~[FDD - AP AICH]:~~

~~If the *AP AICH Parameters* IE is present, the Node B shall reconfigure the indicated AP AICH.~~

~~If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *AP AICH Power* IE, the Node B shall reconfigure the power that the AP AICH shall use.~~

~~If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *CSICH Power* IE, the Node B shall reconfigure the power that the CSICH shall use.~~

#### ~~[FDD - CD/CA ICH]:~~

~~If the *CD/CA ICH Parameters* IE is present, the Node B shall reconfigure the indicated CD/CA ICH.~~

~~If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *CD/CA AICH Power* IE, the Node B shall reconfigure the power that the CD/CA AICH shall use.~~

#### [1.28Mcps TDD - FPACH]:

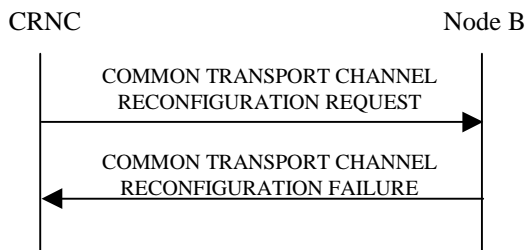
If the *FPACH Parameters* IE is included, the Node B shall reconfigure the indicated FPACH.

If the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message includes the *Max FPACH Power* IE, the Node B shall reconfigure the power that the FPACH shall use.

#### General:

After a successful procedure, the channels will have adopted the new configuration in the Node B. The channels in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message shall remain in the same state as prior to the procedure. The Node B shall store the value of *Configuration Generation ID* IE and the Node B shall respond with the COMMON TRANSPORT CHANNEL RECONFIGURATION RESPONSE message.

### 8.2.2.3 Unsuccessful Operation



**Figure 4: Common Transport Channel Reconfiguration procedure, Unsuccessful Operation**

If the Node B is not able to support all or part of the configuration, it shall reject the configuration of all the channels in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message. The channels in the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message shall remain in the same state as prior to the procedure. The *Cause* IE shall be set to an appropriate value. The value of *Configuration Generation ID* IE from the COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST message shall not be stored.

If the configuration was unsuccessful, the Node B shall respond with the COMMON TRANSPORT CHANNEL RECONFIGURATION FAILURE message.

Typical cause values are as follows:

**Radio Network Layer Cause:**

- Cell not available
- Power level not supported
- Node B Resources unavailable

**Transport Layer Cause:**

- Transport Resources Unavailable

**Miscellaneous Cause:**

- O&M Intervention
- Control processing overload
- HW failure

### 8.2.2.4 Abnormal Conditions

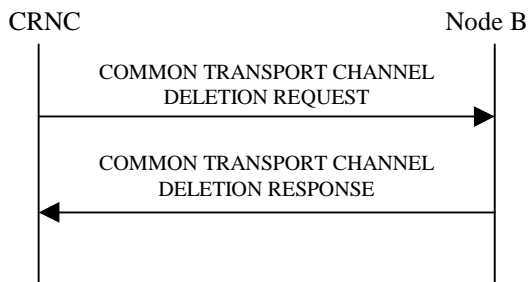
-

## 8.2.3 Common Transport Channel Deletion

### 8.2.3.1 General

This procedure is used for deleting common physical channels and common transport channels.

### 8.2.3.2 Successful Operation



**Figure 5: Common Transport Channel Deletion procedure, Successful Operation**

The procedure is initiated with a COMMON TRANSPORT CHANNEL DELETION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

**Secondary CCPCH:**

If the *Common Physical Channel ID* IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a Secondary CCPCH, the Node B shall delete the indicated channel and the FACHs and PCH supported by that Secondary CCPCH. If there is a PCH that is deleted, the PICH associated with that PCH shall also be deleted. If an S-CCPCH is deleted, the MICH associated with that S-CCPCH shall also be deleted.

**PRACH:**

If the *Common Physical Channel ID* IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates a PRACH, the Node B shall delete the indicated channel and the RACH supported by the PRACH. [FDD - The AICH associated with the RACH shall also be deleted.]

~~**FDD - PCPCHs:**~~

~~If the *Common Physical Channel ID* IE contained in the COMMON TRANSPORT CHANNEL DELETION REQUEST message indicates one of the PCPCHs for a CPCH, the Node B shall delete all PCPCHs associated with the indicated channel and the CPCH supported by these PCPCHs. The AP AICH and CD/CA ICH associated with the CPCH shall also be deleted.~~

**General:**

[TDD - If the requested common physical channel is a part of a CCTrCH, all common transport channels and all common physical channels associated with this CCTrCH shall be deleted.]

After a successful procedure, the channels are deleted in the Node B. The channels in the COMMON TRANSPORT CHANNEL DELETION REQUEST message shall be set to state Not Existing ref. [6]. The Node B shall store the received value of the *Configuration Generation ID* IE and respond with the COMMON TRANSPORT CHANNEL DELETION RESPONSE message.

### 8.2.3.3 Unsuccessful Operation

-

### 8.2.3.4 Abnormal Conditions

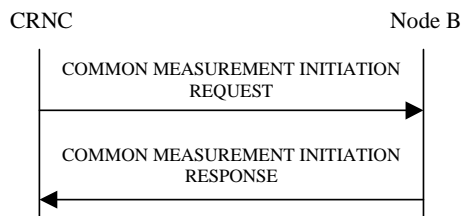
If the C-ID in the COMMON TRANSPORT CHANNEL DELETION REQUEST message is not existing in the Node B or the Common Physical Channel ID does not exist in the Cell, the Node B shall respond with the COMMON TRANSPORT CHANNEL DELETION RESPONSE message.

## 8.2.8 Common Measurement Initiation

### 8.2.8.1 General

This procedure is used by a CRNC to request the initiation of measurements on common resources in a Node B.

### 8.2.8.2 Successful Operation



**Figure 11: Common Measurement Initiation procedure, Successful Operation**

The procedure is initiated with a COMMON MEASUREMENT INITIATION REQUEST message sent from the CRNC to the Node B using the Node B Control Port.

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

[TDD - If the [3.84Mcps TDD - *Time Slot IE*] [1.28Mcps TDD - *Time Slot LCR IE*] is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the requested time slot individually.]

~~[FDD - If the *Spreading Factor IE* is present in the COMMON MEASUREMENT INITIATION REQUEST message, the measurement request shall apply to the PCPCHs whose minimum allowed spreading factor (*Min-UL Channelisation Code Length*) is equal to the value of the *Spreading Factor IE*.]~~

If the *Common Measurement Type IE* is not set to "SFN-SFN Observed Time Difference" and the *SFN Reporting Indicator IE* is set to "FN Reporting Required", the *SFN IE* shall be included in the COMMON MEASUREMENT REPORT message or in the COMMON MEASUREMENT RESPONSE message, the latter only in the case the *Report Characteristics IE* is set to "On Demand". The reported SFN shall be the SFN at the time when the measurement value was reported by the layer 3 filter, referred to as point C in the measurement model [25]. If the *Common Measurement Type IE* is set to "SFN-SFN Observed Time Difference", the *SFN Reporting Indicator IE* shall be ignored.

#### Common measurement type:

If the *Common Measurement Type IE* is set to "SFN-SFN Observed Time Difference", then the Node B shall initiate the SFN-SFN Observed Time Difference measurements between the reference cell identified by *C-ID IE* and the neighbouring cells identified by the *UTRAN Cell Identifier(UC-Id) IE* in the *Neighbouring Cell Measurement Information IE*.

If the *Common Measurement Type IE* is set to "Received Total Wide Band Power for Cell Portion", "Transmitted Carrier Power for Cell Portion", "Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission for Cell Portion", "HS-DSCH Required Power for Cell Portion" or "HS-DSCH Provided Bit Rate for Cell Portion", the Node B shall initiate the corresponding measurements for all the cell portions which are configured under the cell indicated by *C-ID IE* in the COMMON MEASUREMENT INITIATION REQUEST message.

#### Report characteristics:

The *Report Characteristics IE* indicates how the reporting of the measurement shall be performed. See also Annex B.

If the *Report Characteristics IE* is set to "On Demand" and if the *SFN IE* is not provided, the Node B shall return the result of the requested measurement immediately. If the *SFN IE* is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25].

If the *Report Characteristics* IE is set to "Periodic", the Node B shall periodically initiate a Common Measurement Reporting procedure for this measurement, with the requested report frequency. If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", all the available measurement results shall be reported in the *Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE in the *SFN-SFN Measurement Value Information* IE and the Node B shall indicate in the *Unsuccessful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE all the remaining neighbouring cells with no measurement result available in the Common Measurement Reporting procedure. If the *SFN* IE is provided, it indicates the frame for which the first measurement value of a periodic reporting shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25].

If the *Report Characteristics* IE is set to "Event A", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises above the requested threshold and stays there for the requested hysteresis time. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero for the hysteresis time. If the *Common Measurement Type* IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class. If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "Transmitted Carrier Power for Cell Portion" or "Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission for Cell Portion" or "HS-DSCH Required Power for Cell Portion", the measurement entity to be considered is the corresponding measurement for each cell portion.

If the *Report Characteristics* IE is set to "Event B", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls below the requested threshold and stays there for the requested hysteresis time. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero for the hysteresis time. If the *Common Measurement Type* IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class. If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "Transmitted Carrier Power for Cell Portion" or "Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission for Cell Portion" or "HS-DSCH Required Power for Cell Portion", the measurement entity to be considered is the corresponding measurement for each cell portion.

If the *Report Characteristics* IE is set to "Event C", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next C event reporting for the same measurement cannot be initiated before the rising time specified by the *Measurement Change Time* IE has elapsed since the previous event reporting. If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "Transmitted Carrier Power for Cell Portion" or "Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission for Cell Portion", the measurement entity to be considered is the corresponding measurement for each cell portion.

If the *Report Characteristics* IE is set to "Event D", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls by an amount greater than the requested threshold within the requested time. After having reported this type of event, the next D event reporting for the same measurement cannot be initiated before the falling time specified by the *Measurement Change Time* IE has elapsed since the previous event reporting. If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "Transmitted Carrier Power for Cell Portion" or "Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission for Cell Portion", the measurement entity to be considered is the corresponding measurement for each cell portion.

If the *Report Characteristics* IE is set to "Event E", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity rises above the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided, the Node B shall initiate the Common Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity falls below the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Common Measurement Reporting procedure (Report B) as well as terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the Node B shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B. If the *Common Measurement Type* IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class. If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "Transmitted Carrier Power for Cell Portion" or "Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission for Cell Portion" or "HS-DSCH Required Power for Cell Portion", the measurement entity to be considered is the corresponding measurement for each cell portion.

If the *Report Characteristics* IE is set to "Event F", the Node B shall initiate the Common Measurement Reporting procedure when the measured entity falls below the 'Measurement Threshold 1' and stays there for the 'Measurement Hysteresis Time' (Report A). When the conditions for Report A are met and the *Report Periodicity* IE is provided the Node B shall also initiate the Common Measurement Reporting procedure periodically. If the conditions for Report A have been met and the measured entity rises above the 'Measurement Threshold 2' and stays there for the 'Measurement Hysteresis Time', the Node B shall initiate the Common Measurement Reporting procedure (Report B) as well as terminate any corresponding periodic reporting. If the *Measurement Threshold 2* IE is not present, the Node B shall use the value of the *Measurement Threshold 1* IE instead. If the *Measurement Hysteresis Time* IE is not included, the Node B shall use the value zero as hysteresis times for both Report A and Report B. If the *Common Measurement Type* IE is set to "HS-DSCH Required Power", the measured entity to be considered is the sum of the HS-DSCH Required Power measurements for each priority class. If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "Transmitted Carrier Power for Cell Portion" or "Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission for Cell Portion" or "HS-DSCH Required Power for Cell Portion", the measurement entity to be considered is the corresponding measurement for each cell portion.

If the *Report Characteristics* IE is set to "On Modification" and if the *SFN* IE is not provided, the Node B shall report the result of the requested measurement immediately. If the *SFN* IE is provided, it indicates the frame for which the measurement value shall be provided. The provided measurement value shall be the one reported by the layer 3 filter, referred to as point C in the measurement model [25]. Then, the Node B shall initiate the Common Measurement Reporting procedure in accordance to the following conditions:

1. If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning":

- If the *T<sub>UTRAN-GPS</sub> Change Limit* IE is included in the *T<sub>UTRAN-GPS</sub> Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], calculate the change of *T<sub>UTRAN-GPS</sub>* value ( $F_n$ ). The Node B shall initiate the Common Measurement Reporting procedure and set *n* equal to zero when the absolute value of  $F_n$  rises above the threshold indicated by the *T<sub>UTRAN-GPS</sub> Change Limit* IE. The change of *T<sub>UTRAN-GPS</sub>* value ( $F_n$ ) is calculated according to the following:

$$F_n=0 \text{ for } n=0$$

$$F_n = (M_n - M_{n-1}) \bmod 37158912000000 - ((SFN_n - SFN_{n-1}) \bmod 4096) * 10 * 3.84 * 10^3 * 16 + F_{n-1}$$

$$\text{for } n > 0$$

$F_n$  is the change of the *T<sub>UTRAN-GPS</sub>* value expressed in unit [1/16 chip] when *n* measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

$M_n$  is the latest measurement result received after point C in the measurement model [25], measured at  $SFN_n$ .

$M_{n-1}$  is the previous measurement result received after point C in the measurement model [25], measured at  $SFN_{n-1}$ .

$M_1$  is the first measurement result received after point C in the measurement model [25], after the first Common Measurement Reporting at initiation or after the last event was triggered.

$M_0$  is equal to the value reported in the first Common Measurement Reporting at initiation or in the Common Measurement Reporting when the event was triggered.

- If the *Predicted T<sub>UTRAN-GPS</sub> Deviation Limit* IE is included in the *T<sub>UTRAN-GPS</sub> Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], update the  $P_n$  and  $F_n$ . The Node B shall initiate the Common Measurement Reporting procedure and set *n* equal to zero when  $F_n$  rises above the threshold indicated by the *Predicted T<sub>UTRAN-GPS</sub> Deviation Limit* IE. The  $P_n$  and  $F_n$  are calculated according to the following:

$$P_n=b \text{ for } n=0$$

$$P_n = ((a/16) * ((SFN_n - SFN_{n-1}) \bmod 4096)/100 + ((SFN_n - SFN_{n-1}) \bmod 4096) * 10 * 3.84 * 10^3 * 16 + P_{n-1}) \bmod 37158912000000 \quad \text{for } n > 0$$

$$F_n = \min((M_n - P_n) \bmod 37158912000000, (P_n - M_n) \bmod 37158912000000) \quad \text{for } n > 0$$

$P_n$  is the predicted *T<sub>UTRAN-GPS</sub>* value when *n* measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

$a$  is the last reported  $T_{\text{UTRAN-GPS}}$  Drift Rate value.

$b$  is the last reported  $T_{\text{UTRAN-GPS}}$  value.

$F_n$  is the deviation of the last measurement result from the predicted  $T_{\text{UTRAN-GPS}}$  value ( $P_n$ ) when  $n$  measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

$M_n$  is the latest measurement result received after point C in the measurement model [25], measured at  $\text{SFN}_n$ .

$M_j$  is the first measurement result received after point C in the measurement model [25], after the first Common Measurement Reporting at initiation or after the last event was triggered.

The  $T_{\text{UTRAN-GPS}}$  Drift Rate is determined by the Node B in an implementation-dependent way after point B in the measurement model [26].

2. If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference":

- If the *SFN-SFN Change Limit* IE is included in the *SFN-SFN Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], calculate the change of SFN-SFN value ( $F_n$ ). The Node B shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set  $n$  equal to zero when  $F_n$  rises above the threshold indicated by the *SFN-SFN Change Limit* IE. The change of the SFN-SFN value is calculated according to the following:

$$F_n=0 \quad \text{for } n=0$$

$$[\text{FDD} - F_n = (M_n - a) \bmod 614400 \quad \text{for } n>0]$$

$$[\text{TDD} - F_n = (M_n - a) \bmod 40960 \quad \text{for } n>0]$$

$F_n$  is the change of the SFN-SFN value expressed in unit [1/16 chip] when  $n$  measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

$a$  is the last reported SFN-SFN.

$M_n$  is the latest measurement result received after point C in the measurement model [25], measured at  $\text{SFN}_n$ .

$M_j$  is the first measurement result received after point C in the measurement model [25] after the first Common Measurement Reporting at initiation or after the last event was triggered.

- If the *Predicted SFN-SFN Deviation Limit* IE is included in the *SFN-SFN Measurement Threshold Information* IE, the Node B shall each time a new measurement result is received after point C in the measurement model [25], update the  $P_n$  and  $F_n$ . The Node B shall initiate the Common Measurement Reporting procedure in order to report the particular SFN-SFN measurement which has triggered the event and set  $n$  equal to zero when the  $F_n$  rises above the threshold indicated by the *Predicted SFN-SFN Deviation Limit* IE. The  $P_n$  and  $F_n$  are calculated according to the following:

$$P_n=b \text{ for } n=0$$

$$[\text{FDD} - P_n = ((a/16) * ((\text{SFN}_n - \text{SFN}_{n-1}) \bmod 4096)/100 + P_{n-1}) \bmod 614400 \quad \text{for } n>0]$$

$$[\text{FDD} - F_n = \min((M_n - P_n) \bmod 614400, (P_n - M_n) \bmod 614400) \quad \text{for } n>0]$$

$$[\text{TDD} - P_n = ((a/16) * (15 * (\text{SFN}_n - \text{SFN}_{n-1}) \bmod 4096 + (TS_n - TS_{n-1}))/1500 + P_{n-1}) \bmod 40960 \quad \text{for } n>0]$$

$$[\text{TDD} - F_n = \min((M_n - P_n) \bmod 40960, (P_n - M_n) \bmod 40960) \quad \text{for } n>0]$$

$P_n$  is the predicted *SFN-SFN* value when  $n$  measurement results have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

$a$  is the last reported SFN-SFN Drift Rate value.

$b$  is the last reported SFN-SFN value.

$abs$  denotes the absolute value.



$F_n$  is the deviation of the last measurement result from the predicted *SFN-SFN* value ( $P_n$ ) when  $n$  measurements have been received after the first Common Measurement Reporting at initiation or after the last event was triggered.

$M_n$  is the latest measurement result received after point C in the measurement model [25], measured at [TDD - the Time Slot  $TS_n$  of] the Frame  $SFN_n$ .

$M_1$  is the first measurement result received after point C in the measurement model [25] after the first Common Measurement Reporting at initiation or after the last event was triggered.

The *SFN-SFN* Drift Rate is determined by the Node B in an implementation-dependent way after point B in the measurement model [26].

If the *Report Characteristics* IE is not set to "On Demand", the Node B is required to perform reporting for a common measurement object, in accordance with the conditions provided in the COMMON MEASUREMENT INITIATION REQUEST message, as long as the object exists. If no common measurement object(s) for which a measurement is defined exists anymore, the Node B shall terminate the measurement locally, i.e. without reporting this to the CRNC.

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

#### Higher layer filtering:

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

The averaging shall be performed according to the following formula.

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

The variables in the formula are defined as follows:

$F_n$  is the updated filtered measurement result

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

$M_n$  is the latest received measurement result from physical layer measurements, the unit used for  $M_n$  is the same unit as the reported unit in the COMMON MEASUREMENT INITIATION RESPONSE, COMMON MEASUREMENT REPORT messages or the unit used in the event evaluation (i.e. same unit as for  $F_n$ )

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

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

#### Common measurement accuracy:

If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning", then the Node B shall use the *UTRAN GPS Timing Measurement Accuracy Class* IE included in the *Common Measurement Accuracy* IE according to the following:

- If the *UTRAN GPS Timing Measurement Accuracy Class* IE indicates "Class A", then the Node B shall perform the measurement with highest supported accuracy within the accuracy classes A, B and C.
- If the *UTRAN GPS Timing Measurement Accuracy Class* IE indicates "Class B", then the Node B shall perform the measurement with highest supported accuracy within the accuracy classes B and C.
- If the *UTRAN GPS Timing Measurement Accuracy Class* IE indicates "Class C", then the Node B shall perform the measurements with the accuracy according to class C.

#### Measurement Recovery Behavior:

If the *Measurement Recovery Behavior* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall, if Measurement Recovery Behavior is supported, include the *Measurement Recovery*

*Support Indicator* IE in the COMMON MEASUREMENT INITIATION RESPONSE message and perform the Measurement Recovery Behavior as described in subclause 8.2.9.2.

**Response message:**

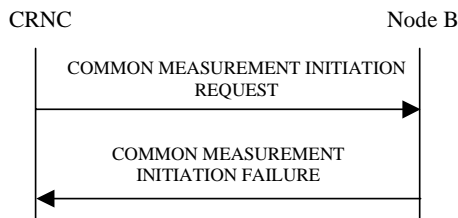
If the Node B was able to initiate the measurement requested by the CRNC, it shall respond with the COMMON MEASUREMENT INITIATION RESPONSE message sent over the Node B Control Port. The message shall include the same Measurement ID that was used in the measurement request. Only in the case where the *Report Characteristics* IE is set to "On Demand" or "On Modification", the COMMON MEASUREMENT INITIATION RESPONSE message shall include the *Common Measurement Object Type* IE containing the measurement result and also the *Common Measurement Achieved Accuracy* IE if the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning".

If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference" and the *Report Characteristics* IE is set to "On Demand" or "On Modification", all the available measurement results shall be reported in the *Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE in the *SFN-SFN Measurement Value Information* IE and the Node B shall indicate in the *Unsuccessful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE all the remaining neighbouring cells with no measurement result available in the COMMON MEASUREMENT INITIATION RESPONSE message. For all available measurement results, the Node B shall include in the *Successful Neighbouring Cell SFN-SFN Observed Time Difference Measurement Information* IE the *SFN-SFN Quality* IE and the *SFN-SFN Drift Rate Quality* IE, if available.

If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning" and the *Report Characteristics* IE is set to "On Demand" or "On Modification", the Node B shall include in the *T<sub>UTRAN-GPS</sub> Measurement Value Information* IE the *T<sub>UTRAN-GPS</sub> Quality* IE and the *T<sub>UTRAN-GPS</sub> Drift Rate Quality* IE, if available.

If the *Common Measurement Type* IE is set to "Received Total Wide Band Power for Cell Portion", "Transmitted Carrier Power for Cell Portion", "Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission for Cell Portion", "HS-DSCH Required Power for Cell Portion" or "HS-DSCH Provided Bit Rate for Cell Portion" and the *Report Characteristics* IE is set to "On Demand", all the available measurement results for each cell portion shall be included in the COMMON MEASUREMENT INITIATION RESPONSE message.

### 8.2.8.3 Unsuccessful Operation



**Figure 12: Common Measurement Initiation procedure, Unsuccessful Operation**

If the requested measurement cannot be initiated, the Node B shall send a COMMON MEASUREMENT INITIATION FAILURE message over the Node B Control Port. The message shall include the same Measurement ID that was used in the COMMON MEASUREMENT INITIATION REQUEST message and the *Cause* IE set to an appropriate value.

Typical cause values are as follows:

**Radio Network Layer Cause:**

- Measurement not supported for the object.
- Measurement Temporarily not Available

### 8.2.8.4 Abnormal Conditions

If the Common Measurement Type received in the *Common Measurement Type* IE, except for "HS-DSCH Required Power", "HS-DSCH Provided Bit Rate", [FDD - "DL Transmission Branch Load",] "HS-DSCH Required Power for Cell Portion" and "HS-DSCH Provided Bit Rate for Cell Portion", is not defined in ref. [4] or [5] to be measured on the

Common Measurement Object Type received in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

[FDD - If the Common Measurement Type received in the *Common Measurement Type* IE is "DL Transmission Branch Load" and the Common Measurement Object Type received in the *Common Measurement Object Type* IE is not "Cell" or "Power Local Cell Group" the Node B shall regard the Common Measurement Initiation procedure as failed.]

[TDD - If the Common Measurement Type requires the Time Slot Information but the [3.84Mcps TDD - *Time Slot* IE] [1.28Mcps TDD - *Time Slot LCR* IE] is not present in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.]

If the COMMON MEASUREMENT INITIATION REQUEST message contains the *SFN-SFN Measurement Threshold Information* IE (in the *Measurement Threshold* IE contained in the *Report Characteristics* IE) and it does not contain at least one IE, the Node B shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the COMMON MEASUREMENT INITIATION REQUEST message contains the *T<sub>UTRAN-GPS</sub> Measurement Threshold Information* IE (in the *Measurement Threshold* IE contained in the *Report Characteristics* IE) and it does not contain at least one IE, the Node B shall reject the procedure using the COMMON MEASUREMENT INITIATION FAILURE message.

If the *Common Measurement Type* IE is set to "SFN-SFN Observed Time Difference", but the *Neighbouring Cell Measurement Information* IE is not received in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

If the *Common Measurement Type* IE is set to "UTRAN GPS Timing of Cell Frames for UE Positioning", but the *T<sub>UTRAN-GPS</sub> Measurement Accuracy Class* IE in the *Common Measurement Accuracy* IE is not included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

If the *Common Measurement Type* IE is not set to "UTRAN GPS Timing of Cell Frames for UE Positioning" and the *Common Measurement Accuracy* IE is included in the COMMON MEASUREMENT INITIATION REQUEST message, the Node B shall regard the Common Measurement Initiation procedure as failed.

The allowed combinations of the Common Measurement Type and Report Characteristics Type are shown in the table below marked with "X". For not allowed combinations, the Node B shall regard the Common Measurement Initiation procedure as failed.

**Table 4: Allowed Common Measurement Type and Report Characteristics Type combinations**

Common Measurement Type	Report Characteristics Type								
	On Demand	Periodic	Event A	Event B	Event C	Event D	Event E	Event F	On Modification
Received Total Wide Band Power	X	X	X	X	X	X	X	X	
Transmitted Carrier Power	X	X	X	X	X	X	X	X	
Acknowledged PRACH Preambles	X	X	X	X	X	X	X	X	
UL Timeslot ISCP	X	X	X	X	X	X	X	X	
Acknowledged PCPCH Access Preambles	X	X	X	X	X	X	X	X	
Detected PCPCH Access Preambles	X	X	X	X	X	X	X	X	
UTRAN GPS Timing of Cell Frames for UE Positioning	X	X							X
SFN-SFN Observed Time Difference	X	X							X
Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission	X	X	X	X	X	X	X	X	
HS-DSCH Required Power	X	X	X	X			X	X	
HS-DSCH Provided Bit Rate	X	X							
Received Total Wide Band Power for Cell Portion	X	X	X	X	X	X	X	X	
Transmitted Carrier Power for Cell Portion	X	X	X	X	X	X	X	X	
Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission for Cell Portion	X	X	X	X	X	X	X	X	
UpPTS interference	X	X	X	X	X	X	X	X	
DL Transmission Branch Load	X	X	X	X			X	X	
HS-DSCH Required Power for Cell Portion	X	X	X	X			X	X	
HS-DSCH Provided Bit Rate for Cell Portion	X	X							

If the SFN IE is included in the COMMON MEASUREMENT INITIATION REQUEST message and the Report Characteristics IE is other than "Periodic", "On Demand" or "On Modification", the Node B shall regard the Common Measurement Initiation procedure as failed.

## 9.1.3 COMMON TRANSPORT CHANNEL SETUP REQUEST

### 9.1.3.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
CHOICE <i>Common Physical Channel To Be Configured</i>	M				YES	ignore
>Secondary CCPCH					–	
>>Secondary CCPCH		1			–	
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>FDD SCCPCH Offset	M		9.2.2.15	Corresponds to [7]: S-CCPCH,k	–	
>>>DL Scrambling Code	C-PCH		9.2.2.13		–	
>>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>>TFCS	M		9.2.1.58	For the DL.	–	
>>>Secondary CCPCH Slot Format	M		9.2.2.43		–	
>>>TFCI Presence	C-SlotFormat		9.2.1.57	Refer to TS [7]	–	
>>>Multiplexing Position	M		9.2.2.23		–	
>>>Power Offset Information		1			–	
>>>>PO1	M		Power Offset 9.2.2.29	Power offset for the TFCI bits	–	
>>>>PO3	M		Power Offset 9.2.2.29	Power offset for the pilot bits	–	
>>>STTD Indicator	M		9.2.2.48		–	
>>>FACH Parameters		0..<maxno ofFACHs>			GLOBAL	reject
>>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>>>ToAWS	M		9.2.1.61		–	
>>>>ToAWE	M		9.2.1.60		–	
>>>>Max FACH Power	M		DL Power 9.2.1.21	Maximum allowed power on the FACH.	–	
>>>>Binding ID	O		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>Transport Layer	O		9.2.1.63	Shall be	YES	ignore

Address				ignored if bearer establishment with ALCAP.		
<b>&gt;&gt;&gt;PCH Parameters</b>		0..1			YES	reject
>>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>>Transport Format Set	M		9.2.1.59	For the DL.	–	
>>>>ToAWS	M		9.2.1.61		–	
>>>>ToAWE	M		9.2.1.60		–	
>>>>PCH Power	M		DL Power 9.2.1.21		–	
<b>&gt;&gt;&gt;&gt;PICH Parameters</b>		1			–	
>>>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>>>>PICH Power	M		9.2.1.49A		–	
>>>>>PICH Mode	M		9.2.2.26	Number of PI per frame	–	
>>>>>STTD Indicator	M		9.2.2.48		–	
>>>>Binding ID	O		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>Transport Layer Address	O		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
<b>&gt;&gt;&gt;MICH Parameters</b>		0..1			YES	reject
>>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		–	
>>>>MICH Power	M		PICH Power 9.2.1.49A		–	
>>>>MICH Mode	M		9.2.2.21D	Number of NI per frame	–	
>>>>STTD Indicator	M		9.2.2.48		–	
>PRACH					–	
<b>&gt;&gt;PRACH</b>		1			–	
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>Scrambling Code Number	M		9.2.2.42		–	
>>>TFCS	M		9.2.1.58	For the UL.	–	
>>>Preamble Signatures	M		9.2.2.31		–	
<b>&gt;&gt;&gt;Allowed Slot Format Information</b>		1..<maxno ofSlotForm			–	

		<i>atsPRACH</i> >				
>>>>RACH Slot Format	M		9.2.2.37		-	
>>>RACH Sub Channel Numbers	M		9.2.2.38		-	
>>>Puncture Limit	M		9.2.1.50	For the UL	-	
>>>Preamble Threshold	M		9.2.2.32		-	
<b>&gt;&gt;&gt;RACH Parameters</b>		1			YES	reject
>>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>>Transport Format Set	M		9.2.1.59	For the UL.	-	
>>>>Binding ID	O		9.2.1.4	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
>>>>Transport Layer Address	O		9.2.1.63	Shall be ignored if bearer establishment with ALCAP.	YES	ignore
<b>&gt;&gt;&gt;AICH Parameters</b>		1			-	
>>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>>AICH Transmission Timing	M		9.2.2.1		-	
>>>>FDD DL Channelisation Code Number	M		9.2.2.14		-	
>>>>AICH Power	M		9.2.2.D		-	
>>>>STTD Indicator	M		9.2.2.48		-	
> <u>Not Used</u> <del>PCPCHs</del>			<u>NULL</u>	This choice shall not be used. Reject procedure if received.	-	
<b>&gt;&gt;CPCH Parameters</b>		4			-	
>>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>>Transport Format Set	M		9.2.1.59	For the UL.	-	
>>>>AP-Preamble Scrambling Code	M		CPCH Scrambling Code Number 9.2.2.4B		-	
>>>>CD-Preamble Scrambling Code	M		CPCH Scrambling Code Number 9.2.2.4B		-	
>>>>TFCS	M		9.2.1.58	For the UL	-	
>>>>CD Signatures	O		Preamble Signatures 9.2.2.34	Note: When not present, all CD signatures are to be used.	-	

>>>CD-Sub-Channel Numbers	Q		9.2.2.1C		-	
>>>Puncture-Limit	M		9.2.1.50	For the UL	-	
>>>CPCH-UL-DPCCH Slot-Format	M		9.2.2.4C	For UL-CPCH message control part	-	
>>>UL-SIR	M		9.2.1.67A		-	
>>>Initial-DL-Transmission-Power	M		DL-Power 9.2.1.24		-	
>>>Maximum-DL-Power	M		DL-Power 9.2.1.24		-	
>>>Minimum-DL-Power	M		DL-Power 9.2.1.24		-	
>>>PO2	M		Power Offset 9.2.2.29	Power offset for the TPC bits relative to the pilot bits.	-	
>>>FDD-TPC-DL-Step-Size	M		9.2.2.16		-	
>>>N-Start-Message	M		9.2.2.23C		-	
>>>N-EOT	M		9.2.2.23A		-	
>>>Channel-Assignment-Indication	M		9.2.2.1D		-	
>>>CPCH-Allowed-Total-Rate	M		9.2.2.4A		-	
>>>PCPCH-Channel-Information		1..<maxno of PCPCHs>			-	
>>>>Common-Physical-Channel-ID	M		9.2.1.13		-	
>>>>CPCH-Scrambling-Code-Number	M		9.2.2.4B	For UL-PCPCH	-	
>>>>DL-Scrambling-Code	M		9.2.2.13	For DL-CPCH message part	-	
>>>>FDD-DL-Channelisation-Code-Number	M		9.2.2.14	For DL-CPCH message part	-	
>>>>PCP-Length	M		9.2.2.24A		-	
>>>>UCSM-Information	C-NCA	4			-	
>>>>>Min-UL-Channelisation-Code-Length	M		9.2.2.22		-	
>>>>>NF-max	M		9.2.2.23B		-	
>>>>>Channel-Request-Parameters		0..<maxA P-SigNum>			-	
>>>>>>AP-Preamble-Signature	M		9.2.2.1A		-	
>>>>>>AP-Sub-Channel-Number	Q		9.2.2.1B		-	
>>>>VCAM-Mapping-Information	C-CA	1..<maxno of Len>		Refer to TS [18]	-	
>>>>>Min-UL-Channelisation-Code-Length	M		9.2.2.22		-	



>>>>NF_max	M		9.2.2.23B		-	
>>>>Max-Number-of-PCPCHs	M		9.2.2.20A		-	
>>>>SF-Request-Parameters		1..<maxA-PSigNum>			-	
>>>>>AP-Preamble-Signature	M		9.2.2.1A		-	
>>>>>AP-Sub-Channel-Number	0		9.2.2.1B		-	
>>>AP-AICH-Parameters		4			-	
>>>>Common-Physical-Channel-ID	M		9.2.1.13		-	
>>>>FDD-DL-Channelisation-Code-Number	M		9.2.2.14		-	
>>>>AP-AICH-Power	M		AICH-Power-9.2.2.D		-	
>>>>CSICH-Power	M		AICH-Power-9.2.2.D	For-CSICH-bits-at-end-of-AP-AICH-slot	-	
>>>>STTD-Indicator	M		9.2.2.48		-	
>>>CD/CA-ICH-Parameters		4			-	
>>>>Common-Physical-Channel-ID	M		9.2.1.13		-	
>>>>FDD-DL-Channelisation-Code-Number	M		9.2.2.14		-	
>>>>CD/CA-ICH-Power	M		AICH-Power-9.2.2.D		-	
>>>>STTD-Indicator	M		9.2.2.48		-	
>>>Binding-ID	0		9.2.1.4	Shall-be-ignored-if-bearer-establishment-with-ALCAP.	YES	ignore
>>>Transport-Layer-Address	0		9.2.1.63	Shall-be-ignored-if-bearer-establishment-with-ALCAP.	YES	ignore

Condition	Explanation
SlotFormat	The IE shall be present if the <i>Secondary CCPCH Slot Format</i> IE is set to any of the values from 8 to 17.
CA	The IE shall be present if the <i>Channel Assignment Indication</i> IE is set to "CA Active".
NCA	The IE shall be present if the <i>Channel Assignment Indication</i> IE is set to "CA Inactive".
PCH	The IE shall be present if the <i>PCH Parameters</i> IE is not present.

<b>Range Bound</b>	<b>Explanation</b>
<i>MaxnoofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH
<del><i>maxnoofPCPCHs</i></del>	<del>Maximum number of PCPCHs for a CPCH</del>
<i>MaxnoofLen</i>	Maximum number of Min UL Channelisation Code Length
<i>maxnoofSlotFormatsPRACH</i>	Maximum number of SF for a PRACH
<del><i>MaxAPSigNum</i></del>	<del>Maximum number of AP Signatures</del>

### 9.1.4 COMMON TRANSPORT CHANNEL SETUP RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
<b>FACH Parameters Info</b>		<i>0..&lt;maxno ofFACHs&gt;</i>		The FACH Parameters may be combined with PCH Parameters	GLOBAL	ignore
>FACH Parameters	M		Common Transport Channel Information Response 9.2.1.14A		–	
PCH Parameters	O		Common Transport Channel Information Response 9.2.1.14A	The PCH Parameters may be combined with FACH Parameters	YES	ignore
RACH Parameters	O		Common Transport Channel Information Response 9.2.1.14A	The RACH Parameters shall not be combined with FACH Parameters or PCH Parameters	YES	ignore
<del>CPCH Parameters</del>	<del>O</del>		<del>Common Transport Channel Information Response 9.2.1.14A</del>	<del>The CPCH Parameters shall not be combined with FACH Parameters or PCH Parameters or RACH Parameters</del>	<del>YES</del>	<del>ignore</del>
Criticality Diagnostics	O		9.2.1.17		YES	ignore

Range Bound	Explanation
<i>MaxnoofFACHs</i>	Maximum number of FACHs that can be defined on a Secondary CCPCH[FDD] / a group of Secondary CCPCHs [TDD]

## 9.1.6 COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST

### 9.1.6.1 FDD Message

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
Configuration Generation ID	M		9.2.1.16		YES	reject
CHOICE <i>Common Physical Channel To Be Configured</i>	M				YES	reject
> <i>Secondary CCPCH</i>					–	
>> <b>FACH Parameters</b>		<i>0..&lt;maxFA CHCell&gt;</i>			GLOBAL	reject
>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>Max FACH Power	O		DL Power 9.2.1.21	Maximum allowed power on the FACH.	–	
>>>ToAWS	O		9.2.1.61		–	
>>>ToAWE	O		9.2.1.60		–	
>> <b>PCH Parameters</b>		<i>0..1</i>			YES	reject
>>>Common Transport Channel ID	M		9.2.1.14		–	
>>>PCH Power	O		DL Power 9.2.1.21	Power to be used on the PCH.	–	
>>>ToAWS	O		9.2.1.61		–	
>>>ToAWE	O		9.2.1.60		–	
>> <b>PICH Parameters</b>		<i>0..1</i>			YES	reject
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>PICH Power	O		9.2.1.49A		–	
>> <b>MICH Parameters</b>		<i>0..1</i>			YES	reject
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>MICH Power	O		PICH Power 9.2.1.49A		–	
> <i>PRACH</i>					–	
>> <b>PRACH Parameters</b>		<i>0..&lt;maxP RACHCell &gt;</i>			GLOBAL	reject
>>>Common Physical Channel ID	M		9.2.1.13		–	
>>>Preamble Signatures	O		9.2.2.31		–	
>>> <b>Allowed Slot Format Information</b>		<i>0..&lt;maxno ofSlotForm atsPRACH &gt;</i>			–	
>>>>RACH Slot Format	M		9.2.2.37		–	

>>>RACH Sub Channel Numbers	O		9.2.2.38		-	
>>AICH Parameters		$0..<maxP_{RACHCell}>$			GLOBAL	reject
>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>AICH Power	O		9.2.2.D		-	
> <u>Not Used</u> CPCH			NULL	This choice shall not be used. Reject procedure if received.	-	
>>CPCH Parameters		$0..<maxno_{ofCPCHs}>$			GLOBAL	reject
>>>Common Transport Channel ID	M		9.2.1.14		-	
>>>UL SIR	O		9.2.1.67A		-	
>>>Initial DL Transmission Power	O		DL Power 9.2.1.24		-	
>>>Maximum DL Power	O		DL Power 9.2.1.24		-	
>>>Minimum DL Power	O		DL Power 9.2.1.24		-	
>>AP-AICH Parameters		$0..<maxno_{ofCPCHs}>$			GLOBAL	reject
>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>AP-AICH Power	O		AICH Power 9.2.2.D		-	
>>>CSICH Power	O		AICH Power 9.2.2.D	For CSICH bits at end of AP-AICH slot	-	
>>CD/CA-ICH Parameters		$0..<maxno_{ofCPCHs}>$			GLOBAL	reject
>>>Common Physical Channel ID	M		9.2.1.13		-	
>>>CD/CA-ICH Power	O		AICH Power 9.2.2.D		-	

Range Bound	Explanation
<i>maxFACHCell</i>	Maximum number of FACHs that can be defined in a Cell
<i>maxnoofCPCHs</i>	Maximum number of CPCHs that can be defined in a Cell
<i>maxPRACHCell</i>	Maximum number of PRACHs and AICHs that can be defined in a Cell
<i>maxnoofSlotFormatsPRACH</i>	Maximum number of SF for a PRACH

## 9.1.17 AUDIT RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
End Of Audit Sequence Indicator	M		9.2.1.29A		YES	ignore
<b>Cell Information</b>		<i>0..&lt;maxCellsInNodeB&gt;</i>			EACH	ignore
>C-ID	M		9.2.1.9		–	
>Configuration Generation ID	M		9.2.1.16		–	
>Resource Operational State	M		9.2.1.52		–	
>Availability Status	M		9.2.1.2		–	
>Local Cell ID	M		9.2.1.38	The local cell that the cell is configured on	–	
>Primary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to FDD only	YES	ignore
>Secondary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to FDD only	YES	ignore
>Primary CPICH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to FDD only	YES	ignore
<b>&gt;Secondary CPICH Information</b>		<i>0..&lt;maxSecondaryCPICHCells&gt;</i>		Applicable to FDD only	EACH	ignore
>>Secondary CPICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
>Primary CCPCH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>BCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore

<b>&gt;Secondary CCPCH Information</b>		<i>0..&lt;maxS CCPCHCell&gt;</i>		See note 1 below	EACH	ignore
>>Secondary CCPCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
>PCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>PICH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
<b>&gt;FACH Information</b>		<i>0..&lt;maxFA CHCell&gt;</i>			EACH	ignore
>>FACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		–	
<b>&gt;PRACH Information</b>		<i>0..&lt;maxP RACHCell&gt;</i>			EACH	ignore
>>PRACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
<b>&gt;RACH Information</b>		<i>0..&lt;maxR ACHCell&gt;</i>			EACH	ignore
>>RACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		–	
<b>&gt;AICH Information</b>		<i>0..&lt;maxP RACHCell&gt;</i>		Applicable to FDD only	EACH	ignore
>>AICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
<b>&gt;Not Used 1PCPCH Information</b>		<i>0..&lt;maxP GPCHCell&gt;</i>	<b>NULL</b>	<u>This item shall not be used. Ignore if received. Applicable to FDD</u>	<b>–EACH</b>	<b>ignore</b>

				only		
>>PCPCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>Not Used 2 CPCH Information		0..<maxC PCHCell>	NULL	This item shall not be used. Ignore if received. Applicable to FDD only	-EACH	ignore
>>CPCH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		-	
>Not Used 3 AP-AICH Information		0..<maxC PCHCell>	NULL	This item shall not be used. Ignore if received. Applicable to FDD only	-EACH	ignore
>>AP-AICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>Not Used 4 CD/CA-ICH Information		0..<maxC PCHCell>	NULL	This item shall not be used. Ignore if received. Applicable to FDD only	-EACH	ignore
>>CD/CA-ICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	TDD Sync Channel Applicable to 3.84Mcps TDD only	YES	ignore
>FPACH Information		0..<maxFP ACHCell>		Applicable to 1.28Mcps TDD only	EACH	ignore
>>FPACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	



>DwPCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to 1.28Mcps TDD only	YES	ignore
<b>&gt;HS-DSCH Resources Information</b>		0..1			YES	ignore
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
>MICH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
<b>&gt;E-DCH Resources Information</b>		0..1			YES	ignore
>>Resource Operational State	M		9.2.1.52		–	
>>Availability Status	M		9.2.1.2		–	
<b>Communication Control Port Information</b>		0..<maxC CPinNode B>			EACH	ignore
>Communication Control Port ID	M		9.2.1.15		–	
>Resource Operational State	M		9.2.1.52		–	
>Availability Status	M		9.2.1.2		–	
<b>Local Cell Information</b>		0..<maxLocalCellinNodeB>			EACH	ignore
>Local Cell ID	M		9.2.1.38		–	
>DL Or Global Capacity Credit	M		9.2.1.20B		–	
>UL Capacity Credit	O		9.2.1.65A		–	
>Common Channels Capacity Consumption Law	M		9.2.1.9A		–	
>Dedicated Channels Capacity Consumption Law	M		9.2.1.20A		–	
>Maximum DL Power Capability	O		9.2.1.39		–	
>Minimum Spreading Factor	O		9.2.1.47		–	
>Minimum DL Power Capability	O		9.2.1.46A		–	
>Local Cell Group ID	O		9.2.1.37A		–	
>Reference Clock Availability	O		9.2.3.14A	TDD only	YES	ignore
>Power Local Cell Group ID	O		9.2.1.49B		YES	ignore
>HSDPA Capability	O		9.2.1.31Ga		YES	ignore
>E-DCH Capability	O		9.2.1.29aa		YES	ignore
<b>Local Cell Group Information</b>		0..<maxLocalCellinNodeB>			EACH	ignore
>Local Cell Group ID	M		9.2.1.37A		–	
>DL Or Global Capacity Credit	M		9.2.1.20B		–	
>UL Capacity Credit	O		9.2.1.65A		–	
>Common Channels Capacity Consumption Law	M		9.2.1.9A		–	
>Dedicated Channels	M		9.2.1.20A		–	

Capacity Consumption Law						
Criticality Diagnostics	O		9.2.1.17		YES	ignore
<b>Power Local Cell Group Information</b>		<i>0..&lt;maxLocalCellinNodeB&gt;</i>			EACH	ignore
>Power Local Cell Group ID	M		9.2.1.49B		–	
>Maximum DL Power Capability	M		9.2.1.39		–	

Note 1: This information element is a simplified representation of the ASN.1. [TDD – Repetitions 1 to 8 and repetitions 9 to maxSCCPCHCell are represented by separate ASN.1 structures.] Furthermore, maxSCCPCHCell has different values in the ASN.1 for FDD and for each of the two TDD options.

Range Bound	Explanation
<i>maxCellinNodeB</i>	Maximum number of Cells that can be configured in Node B
<i>maxCCPinNodeB</i>	Maximum number of Communication Control Ports that can exist in the Node B
<del><i>MaxCPCHCell</i></del>	<del>Maximum number of CPCHs that can be defined in a Cell</del>
<i>maxLocalCellinNodeB</i>	Maximum number of Local Cells that can exist in the Node B
<del><i>maxPCPCHCell</i></del>	<del>Maximum number of PCPCHs that can be defined in a Cell</del>
<i>maxSCPICHCell</i>	Maximum number of Secondary CPICHs that can be defined in a Cell.
<i>maxSCCPCHCell</i>	Maximum number of Secondary CCPCHs that can be defined in a Cell.
<i>MaxFACHCell</i>	Maximum number of FACHs that can be defined in a Cell
<i>maxPRACHCell</i>	Maximum number of PRACHs that can be defined in a Cell
<i>MaxRACHCell</i>	Maximum number of RACHs that can be defined in a Cell
<i>maxFPACHCell</i>	Maximum number of FPACHs that can be defined in a Cell

### 9.1.18 COMMON MEASUREMENT INITIATION REQUEST

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Measurement ID	M		9.2.1.42		YES	reject
CHOICE <i>Common Measurement Object Type</i>	M				YES	reject
>Cell					–	
>>C-ID	M		9.2.1.9		–	
>>Time Slot	O		9.2.3.23	Applicable to 3.84Mcps TDD only	–	
>>Time Slot LCR	O		9.2.3.24A	Applicable to 1.28Mcps TDD only	YES	reject
>>Neighbouring Cell Measurement Information		0..<maxno MeasNCells>			GLOBAL	ignore
>>>CHOICE Neighbouring Cell Measurement Information					–	
>>>>Neighbouring FDD Cell Measurement Information				FDD only	–	
>>>>Neighbouring FDD Cell Measurement Information	M		9.2.1.47C		–	
>>>>Neighbouring TDD Cell Measurement Information				Applicable to 3.84Mcps TDD only	–	
>>>>Neighbouring TDD Cell Measurement Information	M		9.2.1.47D		–	
>>>>Additional Neighbouring Cell Measurement Information					–	
>>>>Neighbouring TDD Cell Measurement Information LCR				Applicable to 1.28Mcps TDD only	–	
>>>>>Neighbouring TDD Cell Measurement Information LCR	M		9.2.1.47E		YES	reject
>RACH				FDD only	–	
>>C-ID	M		9.2.1.9		–	
>>Common Transport Channel ID	M		9.2.1.14		–	
> <del>Not Used</del> GPGCH			<del>NULL</del>	<del>This choice shall not be used. Reject procedure if received. FDD only</del>	–	
>>C-ID	M		9.2.1.9		–	
>>Common Transport	M		9.2.1.14		–	

<b>Channel ID</b>						
<b>&gt;&gt;Spreading Factor</b>	⊖		<b>Minimum UL Channelisat ion-Code Length 9.2.2.22</b>		-	
<i>&gt;Additional Common Measurement Object Types</i>					-	
<i>&gt;&gt;Power Local Cell Group</i>					-	
<i>&gt;&gt;&gt;Power Local Cell Group ID</i>	M		9.2.1.49B		YES	reject
Common Measurement Type	M		9.2.1.11		YES	reject
Measurement Filter Coefficient	O		9.2.1.41		YES	reject
Report Characteristics	M		9.2.1.51		YES	reject
SFN Reporting Indicator	M		FN Reporting Indicator 9.2.1.29B		YES	reject
SFN	O		9.2.1.53A		YES	reject
Common Measurement Accuracy	O		9.2.1.9B		YES	reject
Measurement Recovery Behavior	O		9.2.1.43A		YES	ignore

<b>Range Bound</b>	<b>Explanation</b>
<i>maxnoMeasNCells</i>	Maximum number of neighbouring cells that can be measured on.

### 9.1.19 COMMON MEASUREMENT INITIATION RESPONSE

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
Measurement ID	M		9.2.1.42		YES	ignore
CHOICE <i>Common Measurement Object Type</i>	O			Common Measurement Object Type that the measurement was initiated with.	YES	ignore
> <i>Cell</i>					–	
>>Common Measurement Value	M		9.2.1.12		–	
> <i>RACH</i>				FDD only	–	
>>Common Measurement Value	M		9.2.1.12		–	
> <i>Not UsedCPCH</i>			<a href="#">NULL</a>	<a href="#">This choice shall not be used.FDD-only</a>	–	
>> <i>Common Measurement Value</i>	<b>M</b>		<b>9.2.1.12</b>		<b>–</b>	
> <i>Additional Common Measurement Object Types</i>					–	
>> <i>Power Local Cell Group</i>					–	
>>>Common Measurement Value	M		9.2.1.12		YES	ignore
SFN	O		9.2.1.53A	Common Measurement Time Reference	YES	ignore
Criticality Diagnostics	O		9.2.1.17		YES	ignore
Common Measurement Achieved Accuracy	O		Common Measurement Accuracy 9.2.1.9B		YES	ignore
Measurement Recovery Support Indicator	O		9.2.1.43C		YES	ignore

## 9.1.21 COMMON MEASUREMENT REPORT

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		–	
Measurement ID	M		9.2.1.42		YES	ignore
CHOICE <i>Common Measurement Object Type</i>	M			Common Measurement Object Type that the measurement was initiated with.	YES	ignore
>Cell					–	
>>Common Measurement Value Information	M		9.2.1.12A		–	
>RACH				FDD only	–	
>>Common Measurement Value Information	M		9.2.1.12A		–	
> <i>Not UsedCPCH</i>			<u>NULL</u>	<u>This choice shall not be used.FDD-only</u>	–	
<del>&gt;&gt;Common Measurement Value Information</del>	<del>M</del>		<del>9.2.1.12A</del>		<del>–</del>	
>Additional Common Measurement Object Types					–	
>>Power Local Cell Group					–	
>>>Common Measurement Value Information	M		9.2.1.12A		YES	ignore
SFN	O		9.2.1.53A	Common Measurement Time Reference	YES	ignore
Measurement Recovery Reporting Indicator	O		9.2.1.43B		YES	ignore

### 9.1.32 RESOURCE STATUS INDICATION

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	ignore
Transaction ID	M		9.2.1.62		–	
CHOICE <i>Indication Type</i>	M				YES	ignore
> <i>No Failure</i>					–	
<b>&gt;&gt;Local Cell Information</b>		<i>1..&lt;maxLocalCellinNodeB&gt;</i>			EACH	ignore
>>>Local Cell ID	M		9.2.1.38		–	
>>>Add/Delete Indicator	M		9.2.1.1		–	
>>>DL Or Global Capacity Credit	C-add		9.2.1.20B		–	
>>>UL Capacity Credit	O		9.2.1.65A		–	
>>>Common Channels Capacity Consumption Law	C-add		9.2.1.9A		–	
>>>Dedicated Channels Capacity Consumption Law	C-add		9.2.1.20A		–	
>>>Maximum DL Power Capability	C-add		9.2.1.39		–	
>>>Minimum Spreading Factor	C-add		9.2.1.47		–	
>>>Minimum DL Power Capability	C-add		9.2.1.46A		–	
>>>Local Cell Group ID	O		9.2.1.37A		–	
>>>Reference Clock Availability	O		9.2.3.14A	TDD only	YES	ignore
>>>Power Local Cell Group ID	O		9.2.1.49B		YES	ignore
>>>HSDPA Capability	O		9.2.1.31Ga		YES	ignore
>>>E-DCH Capability	O		9.2.1.29aa		YES	ignore
<b>&gt;&gt;Local Cell Group Information</b>		<i>0..&lt;maxLocalCellinNodeB&gt;</i>			EACH	ignore
>>>Local Cell Group ID	M		9.2.1.37A		–	
>>>DL Or Global Capacity Credit	M		9.2.1.20B		–	
>>>UL Capacity Credit	O		9.2.1.65A		–	
>>>Common Channels Capacity Consumption Law	M		9.2.1.9A		–	
>>>Dedicated Channels Capacity Consumption Law	M		9.2.1.20A		–	
<b>&gt;&gt;Power Local Cell Group Information</b>		<i>0..&lt;maxLocalCellinNodeB&gt;</i>			EACH	ignore
>>>Power Local Cell Group ID	M		9.2.1.49B		–	
>>>Maximum DL Power Capability	M		9.2.1.39		–	
> <i>Service Impacting</i>					–	
<b>&gt;&gt;Local Cell Information</b>		<i>0..&lt;maxLo</i>			EACH	ignore

		<i>calCellinNodeB</i>				
>>>Local Cell ID	M		9.2.1.38		–	
>>>DL Or Global Capacity Credit	O		9.2.1.20B		–	
>>>UL Capacity Credit	O		9.2.1.65A		–	
>>>Common Channels Capacity Consumption Law	O		9.2.1.9A		–	
>>>Dedicated Channels Capacity Consumption Law	O		9.2.1.20A		–	
>>>Maximum DL Power Capability	O		9.2.1.39		–	
>>>Minimum Spreading Factor	O		9.2.1.47		–	
>>>Minimum DL Power Capability	O		9.2.1.46A		–	
>>>Reference Clock Availability	O		9.2.3.14A	TDD only	YES	ignore
>>>HSDPA Capability	O		9.2.1.31Ga		YES	ignore
>>>E-DCH Capability	O		9.2.1.29aa		YES	ignore
<b>&gt;&gt;Local Cell Group Information</b>		<i>0..&lt;maxLocalCellinNodeB</i>			EACH	ignore
>>>Local Cell Group ID	M		9.2.1.37A		–	
>>>DL Or Global Capacity Credit	O		9.2.1.20B		–	
>>>UL Capacity Credit	O		9.2.1.65A		–	
>>>Common Channels Capacity Consumption Law	O		9.2.1.9A		–	
>>>Dedicated Channels Capacity Consumption Law	O		9.2.1.20A		–	
<b>&gt;&gt;Communication Control Port Information</b>		<i>0..&lt;maxCPCPinNodeB</i>			EACH	ignore
>>>Communication Control Port ID	M		9.2.1.15		–	
>>>Resource Operational State	M		9.2.1.52		–	
>>>Availability Status	M		9.2.1.2		–	
<b>&gt;&gt;Cell Information</b>		<i>0..&lt;maxCellinNodeB</i>			EACH	ignore
>>>C-ID	M		9.2.1.9		–	
>>>Resource Operational State	O		9.2.1.52		–	
>>>Availability Status	O		9.2.1.2		–	
>>>Primary SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignore
>>>Secondary SCH Information	O		Common Physical Channel Status Information	FDD only	YES	ignore



			9.2.1.13A			
>>>Primary CPICH Information	O		Common Physical Channel Status Information 9.2.1.13A	FDD only	YES	ignore
>>>Secondary CPICH Information		$0..<maxS CPICHCell >$		FDD only	EACH	ignore
>>>>Secondary CPICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
>>>Primary CCPCH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>BCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>>>Secondary CCPCH Information		$0..<maxS CCPCHCell >$		See note 1 below	EACH	ignore
>>>>Secondary CCPCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
>>>PCH Information	O		Common Transport Channel Status Information 9.2.1.14B		YES	ignore
>>>PICH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>FACH Information		$0..<maxFACHCell >$			EACH	ignore
>>>>FACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		–	
>>>PRACH Information		$0..<maxP RACHCell >$			EACH	ignore
>>>>PRACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
>>>RACH Information		$0..<maxP RACHCell >$			EACH	ignore

		>				
>>>>RACH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		-	
>>>AICH Information		0..<maxP RACHCell >		FDD only	EACH	ignore
>>>>AICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>> <u>Not Used 1</u> PCPCH Information		0..<maxP CPCHCell >	NULL	This item shall not be used. Ignore if received. FDD only	EACH	ignore
>>>>PCPCH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>> <u>Not Used 2</u> CPCH Information		0..<maxG PCHCell>	NULL	This item shall not be used. Ignore if received. FDD only	EACH	ignore
>>>>CPCH Individual Information	M		Common Transport Channel Status Information 9.2.1.14B		-	
>>> <u>Not Used 3</u> AP-AICH Information		0..<maxG PCHCell>	NULL	This item shall not be used. Ignore if received. FDD only	EACH	ignore
>>>>AP-AICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>> <u>Not Used 4</u> CD/CA-ICH Information		0..<maxG PCHCell>	NULL	This item shall not be used. Ignore if received. FDD only	EACH	ignore
>>>>CD/CA-ICH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		-	
>>>SCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to 3.84Mcps TDD only	YES	ignore
>>>FPACH		0..<maxFP ACHCell>		Applicable to 1.28Mcps TDD	EACH	ignore

Information				only		
>>>>FPACH Individual Information	M		Common Physical Channel Status Information 9.2.1.13A		–	
>>>DwPCH Information	O		Common Physical Channel Status Information 9.2.1.13A	Applicable to 1.28Mcps TDD only	YES	ignore
>>>>HS-DSCH Resources Information		0..1			YES	ignore
>>>>Resource Operational State	M		9.2.1.52		–	
>>>>Availability Status	M		9.2.1.2		–	
>>>MICH Information	O		Common Physical Channel Status Information 9.2.1.13A		YES	ignore
>>>E-DCH Resources Information		0..1			YES	ignore
>>>>Resource Operational State	M		9.2.1.52		–	
>>>>Availability Status	M		9.2.1.2		–	
>>Power Local Cell Group Information		0..<maxLocalCellinNodeB>			EACH	ignore
>>>Power Local Cell Group ID	M		9.2.1.49B		–	
>>>Maximum DL Power Capability	M		9.2.1.39		–	
Cause	O		9.2.1.6		YES	ignore

Note 1: This information element is a simplified representation of the ASN.1. [TDD – Repetitions 1 to 8 and repetitions 9 to maxSCCPCHCell are represented by separate ASN.1 structures.] Furthermore, maxSCCPCHCell has different values in the ASN.1 for FDD and for each of the two TDD options.

Condition	Explanation
add	The IE shall be present if the <i>Add/Delete Indicator</i> IE is set to "Add".

<b>Range Bound</b>	<b>Explanation</b>
<i>maxLocalCellinNodeB</i>	Maximum number of Local Cells that can exist in the Node B
<i>maxCellinNodeB</i>	Maximum number of C-IDs that can be configured in the Node B
<del><i>maxCPCHCell</i></del>	<del>Maximum number of CPCHs that can be defined in a Cell</del>
<i>maxSCPICHCell</i>	Maximum number of Secondary CPICHs that can be defined in a Cell.
<i>maxSCCPCHCell</i>	Maximum number of Secondary CCPCHs that can be defined in a Cell.
<i>maxFACHCell</i>	Maximum number of FACHs that can be defined in a Cell
<del><i>maxPCPCHCell</i></del>	<del>Maximum number of PCPCHs that can be defined in a Cell</del>
<i>maxPRACHCell</i>	Maximum number of PRACHs and AICHs that can be defined in a Cell
<i>maxCCPinNodeB</i>	Maximum number of Communication Control Ports that can exist in the Node B
<i>maxFPACHCell</i>	Maximum number of FPACHs that can be defined in a Cell

9.2.1.6 Cause

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE Cause Group	M			
>Radio Network Layer				
>>Radio Network Layer Cause	M		ENUMERATED ( unknown C-ID, Cell not available, Power level not supported, DL radio resources not available, UL radio resources not available, RL Already Activated/allocated, Node B Resources Unavailable, Measurement not supported for the object, Combining Resources not available, Requested configuration not supported, Synchronization failure, Priority transport channel established, SIB Origination in Node B not Supported, Requested Tx Diversity Mode not supported, Unspecified, BCCH scheduling error, Measurement Temporarily not Available, Invalid CM Setting, Reconfiguration CFN not elapsed, Number of DL codes not supported, S-CPICH not supported, Combining not supported, UL SF not supported, DL SF not supported, Common Transport Channel Type not supported, Dedicated Transport Channel Type not supported, Downlink Shared Channel Type not supported, Uplink Shared Channel Type not supported, CM not supported, Tx diversity no longer supported, Unknown Local Cell ID, ..., Number of UL codes not supported, Information temporarily not available, Information Provision not supported for the object, Cell Synchronisation not supported, Cell Synchronisation Adjustment not supported, DPC Mode Change not Supported,	

			IPDL already activated, IPDL not supported, IPDL parameters not available, Frequency Acquisition not supported, Power Balancing status not compatible, Requested type of Bearer Re-arrangement not supported, Signalling Bearer Re-arrangement not supported, Bearer Re-arrangement needed, Delayed Activation not Supported, RL Timing Adjustment not supported, MICH not supported, HARQ Preamble Mode not supported, F-DPCH Not Supported)	
>Transport Layer				
>>Transport Layer Cause	M		ENUMERATED ( Transport resource unavailable, Unspecified, ...)	
>Protocol				
>>Protocol Cause	M		ENUMERATED ( Transfer syntax error, Abstract syntax error (reject), Abstract syntax error (ignore and notify), Message not compatible with receiver state, Semantic error, Unspecified, Abstract syntax error (falsely constructed message), ...)	
>Misc				
>>Miscellaneous Cause	M		ENUMERATED ( Control processing overload Hardware failure, O&M intervention, Not enough user plane processing resources, Unspecified, ...)	

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

Radio Network Layer cause	Meaning
BCCH scheduling error	The Node B has detected an illegal BCCH schedule update (see subclause 8.2.16.3).
Bearer Re-arrangement needed	The Node B cannot perform the requested Radio Link Reconfiguration without bearer re-arrangement.

Cell not Available	The concerned cell or local cell is not available.
Cell Synchronisation not supported	The concerned cell(s) do not support Cell Synchronisation.
Combining not supported	The Node B does not support RL combining for the concerned cells.
Combining Resources Not Available	The value of the received <i>Diversity Control Field</i> IE was set to "Must", but the Node B cannot perform the requested combining.
CM not supported	The concerned cell(s) do not support Compressed Mode.
Common Transport Channel Type not supported	The concerned cell(s) do not support the RACH and/or FACH <del>and/or CPCH</del> -Common Transport Channel Type.
Dedicated Transport Channel Type not supported	The concerned cell(s) do not support the Dedicated Transport Channel Type.
Delayed Activation not Supported	The concerned cell(s) do not support delayed activation of RLs.
DL Radio Resources not Available	The Node B does not have sufficient DL radio resources available.
DL SF not supported	The concerned cell(s) do not support the requested DL SF.
DL Shared Channel Type not supported	The concerned cell(s) do not support the Downlink Shared Channel Type.
DPC Mode Change not Supported	The concerned cells do not support DPC mode changes.
Frequency Acquisition not supported	The concerned cell(s) do not support Frequency Acquisition.
F-DPCH not supported	The concerned cell(s) do not support the Fractional DPCH
HARQ Preamble Mode not supported	The concerned cell does not support the HARQ Preamble Mode
Information Provision not supported for the object	The requested information provision is not supported for the concerned object types.
Information temporarily not available	The requested information can temporarily not be provided.
Invalid CM Settings	The concerned cell(s) consider the requested Compressed Mode settings invalid.
IPDL already activated	The concerned cell(s) have already active IPDL ongoing.
IPDL not supported	The concerned cell(s) do not support the IPDL.
IPDL parameters not available	The concerned cell(s) do not have IPDL parameters defining IPDL to be applied.
Measurement not Supported For The Object	At least one of the concerned cell(s) does not support the requested measurement on the concerned object type.
Measurement Temporarily not Available	The Node B can temporarily not provide the requested measurement value.
MICH not supported	The concerned cell does not support MICH.
Node B resources unavailable	The Node B does not have sufficient resources available.
Number of DL codes not supported	The concerned cell(s) do not support the requested number of DL codes.
Number of UL codes not supported	The concerned cell(s) do not support the requested number of UL codes.
Power Level not Supported	A DL power level was requested which the concerned cell(s) do not support.
Power Balancing status not compatible	The power balancing status in the SRNC is not compatible with that of the Node B.
Priority transport channel established	The CRNC cannot perform the requested blocking since a transport channel with a high priority is present.
RL Timing Adjustment not Supported	The concerned cell(s) do not support adjustments of the RL timing.
Reconfiguration CFN not elapsed	The requested action cannot be performed due to that a RADIO LINK RECONFIGURATION COMMIT message was received previously, but the concerned CFN has not yet elapsed.
Requested Configuration not Supported	The concerned cell(s) do not support the requested configuration i.e. power levels, Transport Formats, physical channel parameters.
Requested Type of Bearer Re-arrangement not supported	The Node B does not support the requested type of bearer re-arrangement.
Requested Tx Diversity mode not supported	The concerned cell(s) do not support the requested transmit diversity mode.
RL already Activated/ allocated	The Node B has already allocated an RL with the requested RL-id for this UE context.
S-CPICH not supported	The concerned cell(s) do not support S-CPICH.
SIB Origination in Node B not Supported	The Node B does not support the origination of the requested SIB for the concerned cell.
Signalling Bearer Re-arrangement not supported	The Node B does not support the Signalling bearer re-arrangement.
Synchronisation Failure	Loss of UL Uu synchronisation.

Cell Synchronisation Adjustment not supported	The concerned cell(s) do not support Cell Synchronisation Adjustment.
Tx diversity no longer supported	Tx diversity can no longer be supported in the concerned cell.
UL Radio Resources not Available	The Node B does not have sufficient UL radio resources available.
UL SF not supported	The concerned cell(s) do not support the requested minimum UL SF.
UL Shared Channel Type not supported	The concerned cell(s) do not support the Uplink Shared Channel Type.
Unknown C-ID	The Node B is not aware of a cell with the provided C-ID.
Unknown Local Cell ID	The Node B is not aware of a local cell with the provided Local Cell ID
Unspecified	Sent when none of the above cause values applies but still the cause is Radio Network layer related.

<b>Transport Network Layer cause</b>	<b>Meaning</b>
Transport resource unavailable	The required transport resources are not available.
Unspecified	Sent when none of the above cause values applies but still the cause is Transport Network layer related.

<b>Protocol cause</b>	<b>Meaning</b>
Abstract Syntax Error (Reject)	The received message included an abstract syntax error and the concerned criticality indicated "reject" (see subclause 10.3).
Abstract Syntax Error (Ignore and Notify)	The received message included an abstract syntax error and the concerned criticality indicated "ignore and notify" (see subclause 10.3).
Abstract syntax error (falsely constructed message)	The received message contained IEs in wrong order or with too many occurrences (see subclause 10.3).
Message not Compatible with Receiver State	The received message was not compatible with the receiver state (see subclause 10.4).
Semantic Error	The received message included a semantic error (see subclause 10.4).
Transfer Syntax Error	The received message included a transfer syntax error (see subclause 10.2).
Unspecified	Sent when none of the above cause values applies but still the cause is protocol related.

<b>Miscellaneous cause</b>	<b>Meaning</b>
Control Processing Overload	Node B control processing overload.
Hardware Failure	Node B hardware failure.
Not enough User Plane Processing Resources	Node B has insufficient user plane processing resources available.
O&M Intervention	Operation and Maintenance intervention related to Node B equipment.
Unspecified	Sent when none of the above cause values applies and the cause is not related to any of the categories Radio Network Layer, Transport Network Layer or Protocol.



### 9.2.1.9A Common Channels Capacity Consumption Law

The capacity consumption law indicates to the CRNC how the Capacity Credit is consumed by NBAP set of procedures, depending on the allocated Spreading Factor. [FDD - For the PRACH, the reference spreading factor shall be the minimum possible spreading factor amongst the ones defined by the *RACH Slot Format* IE(s) in the Common Transport Channel Setup or Reconfiguration procedures. ~~For the PCPCH, the reference spreading factor shall be the minimum spreading factor computed from the TFCS as described in [8].~~]

This capacity consumption law indicates the consumption law to be used with the following procedures:

- Common Transport Channel Setup
- Common Transport Channel Deletion
- [FDD - Common Transport Channel Reconfiguration]

For the Common Transport Channel Setup procedure, the cost given in the consumption law shall be debited from the Capacity Credit, whereas it shall be credited to the Capacity Credit for the Common Transport Channel Deletion one.

[FDD - For the Common Transport Channel Reconfiguration procedure, the difference of the consumption cost for the new spreading factor and the consumption cost for the old spreading factor shall be debited from the Capacity Credit (or credited if this difference is negative).]

If the modelling of the internal resource capability of the Node B is modelled independently for the Uplink and Downlink, the "DL cost" shall be applied to the "DL or Global Capacity Credit" and the "UL Cost" shall be applied to the "UL Capacity Credit". If it is modelled as shared resources, both the "DL cost" and the "UL cost" shall be applied to the "DL or Global Capacity Credit".

[FDD - When the Common Transport Channel Setup, Deletion or Reconfiguration procedures are used, the Capacity Credit shall be updated considering all physical channels related in these procedures (S-CCPCH, PICH, PRACH, ~~and AICH, PCPCH, CD/CA-ICH and AP-AICH~~), i.e. one cost shall be credited to or debited from the Capacity Credit per physical channel.]

[FDD - The costs given in the consumption law are the costs per channelization code. When multiple channelization codes are used by a physical channel, the cost credited to or debited from the Capacity Credit for this physical channel shall be taken as N times the cost given in the consumption law, where N is the number of channelization codes.]

[TDD - When the Common Transport Channel Setup or Deletion procedures are used, the Capacity Credit shall be updated considering all physical channels related in these procedures (S-CCPCH, PICH, PRACH), i.e. one cost shall be credited to or debited from the Capacity Credit per physical channel.]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>SF Allocation Law</b>		<i>1..&lt;maxno of SFs&gt;</i>		[FDD - For each SF, cost of its allocation: the first instance corresponds to SF = 4, the second to SF = 8, the third to SF = 16 and so on.] [TDD - For each SF, cost of its allocation: the first instance corresponds to SF = 1, the second to SF = 2, the third to SF = 4 and so on.]
>DL cost	M		INTEGER (0..65535)	
>UL cost	M		INTEGER (0..65535)	

Range Bound	Explanation
<i>maxno of SFs</i>	Maximum number of Spreading Factors

### 9.2.1.11 Common Measurement Type

The Common Measurement Type identifies which measurement that shall be performed.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Common Measurement Type			ENUMERATED ( Received Total Wide Band Power, Transmitted Carrier Power, Acknowledged PRACH Preambles, UL Timeslot ISCP, <del>NotUsed-1-</del> <del>Acknowledged PCPCH Access Preambles,</del> <del>NotUsed-2</del> <del>Detected PCPCH Access Preambles,</del> ..., UTRAN GPS Timing of Cell Frames for UE Positioning, SFN-SFN Observed Time Difference, Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission, HS-DSCH Required Power, HS-DSCH Provided Bit Rate, Received Total Wide Band Power for Cell Portion, Transmitted Carrier Power for Cell Portion, Transmitted carrier power of all codes not used for HS-PDSCH or HS-SCCH transmission for Cell Portion, UpPTS Interference, DL Transmission Branch Load, HS-DSCH Required Power for Cell Portion, HS-DSCH Provided Bit Rate for Cell Portion)	"UL Timeslot ISCP" is used by TDD only, "Acknowledged PRACH Preambles", <del>'Acknowledged PCPCH Access Preambles';</del> <del>'Detected PCPCH Access Preambles';</del> 'DL Transmission Branch Load' are used by FDD only, "UpPTS interference" is used by 1.28Mcps TDD only. <a href="#">This IE shall never be set to the values that are prefixed "NotUsed-".</a>

### 9.2.1.12 Common Measurement Value

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE <i>Common Measurement Value</i>	M				–	
> <i>Transmitted Carrier Power</i>					–	
>> <i>Transmitted Carrier Power Value</i>	M		INTEGER (0..100)	According to mapping in [22] and [23]	–	
> <i>Received Total Wide Band Power</i>					–	
>> <i>Received Total Wide Band Power Value</i>	M		INTEGER (0..621)	According to mapping in [22] and [23]	–	
> <i>Acknowledged PRACH Preambles</i>				FDD Only	–	
>> <i>Acknowledged PRACH Preamble Value</i>	M		INTEGER (0..240,...)	According to mapping in [22]	–	
> <i>UL Timeslot ISCP</i>				TDD Only	–	
>> <i>UL Timeslot ISCP</i>	M		INTEGER (0..127)	According to mapping in [23]	–	
> <i>Not used 1 Acknowledged PCPCH Access Preambles</i>			NULL	<a href="#">This choice shall not be used. Ignore if received. FDD Only</a>	–	
>> <i>Acknowledged PCPCH Access Preambles</i>	M		INTEGER (0..15,...)	According to mapping in [22]	–	
> <i>Not Used 2 Detected PCPCH Access Preambles</i>			NULL	<a href="#">This choice shall not be used. Ignore if received. FDD Only</a>	–	
>> <i>Detected PCPCH Access Preambles</i>	M		INTEGER (0..240,...)	According to mapping in [22]	–	
> <i>Additional Common Measurement Values</i>					–	
>> <i>UTRAN GPS Timing Of Cell Frames for UE Positioning</i>					–	
>>> <i>T<sub>UTRAN-GPS</sub> Measurement Value Information</i>	M		9.2.1.64A		YES	ignore
>> <i>SFN-SFN Observed Time Difference</i>					–	
>>> <i>SFN-SFN Measurement Value Information</i>	M		9.2.1.53E		YES	ignore
>> <i>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission</i>					–	
>>> <i>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission Value</i>	M		INTEGER (0..100)	According to mapping in [22] and [23]	YES	ignore
>> <i>HS-DSCH Required Power</i>					–	
>>> <i>HS-DSCH</i>	M		9.2.1.31lc		YES	ignore

Required Power Value Information						
>>HS-DSCH Provided Bit Rate					–	
>>>HS-DSCH Provided Bit Rate Value Information	M		9.2.1.31Ib		YES	ignore
>>Transmitted Carrier Power For Cell Portion					–	
>>>Transmitted Carrier Power For Cell Portion Value		1..<maxNrOfCellPortions>		FDD Only	GLOBAL	ignore
>>>>Cell Portion ID	M		9.2.2.1Ca		–	
>>>>Transmitted Carrier Power Value	M		INTEGER (0..100)	According to mapping in [22]	–	
>>Received Total Wide Band Power For Cell Portion					–	
>>>Received Total Wide Band Power For Cell Portion Value		1..<maxNrOfCellPortions>		FDD Only	GLOBAL	ignore
>>>>Cell Portion ID	M		9.2.2.1Ca		–	
>>>>Received Total Wide Band Power Value	M		INTEGER (0..621)	According to mapping in [22]	–	
>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission For Cell Portion					–	
>>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission For Cell Portion Value		1..<maxNrOfCellPortions>		FDD Only	GLOBAL	ignore
>>>>Cell Portion ID	M		9.2.2.1Ca		–	
>>>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission Value	M		INTEGER (0..100)	According to mapping in [22]	–	
>>UpPTS interference				1.28Mcps TDD Only	–	
>>>UpPTS interference Value	M		INTEGER (0..127,...)	According to mapping in [23]	YES	ignore
>>DL Transmission Branch Load				FDD Only	–	
>>>NodeB DL Transmission Branch Load Values	M		INTEGER (0..101,...)	According to mapping in [22]	YES	ignore

>>HS-DSCH Required Power For Cell Portion					-	
>>>HS-DSCH Required Power For Cell Portion Information		1..<max NrOfCel lPortion s>		FDD Only	GLOBAL	ignore
>>>>Cell Portion ID	M		9.2.2.1Ca		-	
>>>>HS-DSCH Required Power Value Information	M		9.2.1.31lc		-	
>>HS-DSCH Provided Bit Rate For Cell Portion					-	
>>>HS-DSCH Provided Bit Rate For Cell Portion Information		1..<max NrOfCel lPortion s>		FDD Only	GLOBAL	ignore
>>>>Cell Portion ID	M		9.2.2.1Ca		-	
>>>>HS-DSCH Provided Bit Rate Value Information	M		9.2.1.31lb		-	

Range Bound	Explanation
MaxNrOfCellPortions	Maximum number of Cell Portions in a cell

### 9.2.1.21 DL Power

The *DL Power* IE indicates a power level relative to the [FDD - primary CPICH power] [TDD - primary CCPCH power] configured in a cell. If Transmit Diversity is applied to a downlink physical channel, the *DL Power* IE indicates the power offset between the linear sum of the power for this downlink physical channel on all branches and the [FDD - primary CPICH power] [TDD - PCCPCH power] configured in a cell.

[FDD - If referred to a DPCH, it indicates the power of the transmitted DPDCH symbols.] [FDD - If referred to an F-DPCH, it indicates the Reference F-DPCH TX Power.] ~~[FDD - If referred to a DL-DPCCH for CPCH, it indicates the power of the transmitted pilot symbols].~~

[TDD - If referred to a DPCH or PDSCH, it indicates the power of a spreading factor 16 code, the power for a spreading factor 1 code would be 12 dB higher. If referred to a SCCPCH, the *DL Power* IE specifies the maximum power of the SCCPCH.]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
DL Power			INTEGER (-350..150)	Value = DL Power /10 Unit: dB Range: -35.0 .. +15.0 dB Step: 0.1dB

#### 9.2.1.43 Measurement Increase/Decrease Threshold

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE <i>Measurement Increase/Decrease Threshold</i>	M				–	
> <i>Received Total Wide Band Power</i>					–	
>> <i>Received Total Wide Band Power</i>	M		INTEGER (0..620)	Unit: dB Range: 0..62 dB Step: 0.1 dB	–	
> <i>Transmitted Carrier Power</i>					–	
>> <i>Transmitted Carrier Power</i>	M		INTEGER (0..100)	According to mapping in [22] and [23]	–	
> <i>Acknowledged PRACH Preambles</i>				FDD only	–	
>> <i>Acknowledged PRACH Preambles</i>	M		INTEGER (0..240,...)	According to mapping in [22]	–	
> <i>UL Timeslot ISCP</i>				TDD only	–	
>> <i>UL Timeslot ISCP</i>	M		INTEGER (0..126)	Unit: dB Range: 0..63 dB Step: 0.5 dB	–	
> <i>SIR</i>					–	
>> <i>SIR</i>	M		INTEGER (0..62)	Unit: dB Range: 0..31 dB Step: 0.5 dB	–	
> <i>SIR Error</i>				FDD only	–	
>> <i>SIR Error</i>	M		INTEGER (0..124)	Unit: dB Range: 0..62 dB Step: 0.5 dB	–	
> <i>Transmitted Code Power</i>					–	
>> <i>Transmitted Code Power</i>	M		INTEGER (0..112,...)	Unit: dB Range: 0..56 dB Step: 0.5 dB	–	
> <i>RSCP</i>				TDD only	–	
>> <i>RSCP</i>	M		INTEGER (0..126)	Unit: dB Range: 0..63 dB Step: 0.5 dB	–	
> <i>Round Trip Time</i>				FDD only	–	
>> <i>Round Trip Time</i>	M		INTEGER (0..32766)	Unit: chips Range: 0 .. 2047.875 chips Step: 0.625 chips	–	
> <i>Not Used 1 Acknowledged PCPCH Access Preambles</i>			NULL	<a href="#">This choice shall not be used. Reject procedure if received.</a> FDD only	–	
>> <i>Acknowledged PCPCH Access Preambles</i>	M		INTEGER (0..15,...)	According to mapping in [22]	–	
> <i>Not Used 2 Detected PCPCH Access Preambles</i>			NULL	<a href="#">This choice shall not be used. Reject procedure if received.</a> FDD only	–	
>> <i>Detected PCPCH Access Preambles</i>	M		INTEGER (0..240,...)	According to mapping in [22]	–	
> <i>Additional Measurement Thresholds</i>					–	
>> <i>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH</i>					–	



<i>Transmission</i>						
>>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission	M		INTEGER (0..100)	According to mapping in [22] and [23]	YES	reject
>>Transmitted Carrier Power For Cell Portion				FDD only	–	
>>>Transmitted Carrier Power For Cell Portion	M		INTEGER (0..100)	Mapping identical to the one for Transmitted Carrier Power measurement in [22]	YES	reject
>>Received Total Wide Band Power For Cell Portion				FDD only	–	
>>>Received Total Wide Band Power For Cell Portion	M		INTEGER (0..620)	Unit: dB Range: 0..62 dB Step: 0.1 dB	YES	reject
>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission For Cell Portion				FDD only	–	
>>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission For Cell Portion	M		INTEGER (0..100)	Mapping identical to the one for Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission measurement in [22]	YES	reject
>>UpPTS interference				1.28Mcps TDD Only	–	
>>>UpPTS interference Value	M		INTEGER (0..127,...)	According to mapping in [23]	YES	reject

#### 9.2.1.44 Measurement Threshold

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
CHOICE <i>Measurement Threshold</i>	M				–	
> <i>Received Total Wide Band Power</i>					–	
>> <i>Received Total Wide Band Power</i>	M		INTEGER (0..621)	According to mapping in [22] and [23]	–	
> <i>Transmitted Carrier Power</i>					–	
>> <i>Transmitted Carrier Power</i>	M		INTEGER (0..100)	According to mapping in [22] and [23]	–	
> <i>Acknowledged PRACH Preambles</i>				FDD only	–	
>> <i>Acknowledged PRACH Preambles</i>	M		INTEGER (0..240,...)	According to mapping in [22]	–	
> <i>UL Timeslot ISCP</i>				TDD only	–	
>> <i>UL Timeslot ISCP</i>	M		INTEGER (0..127)	According to mapping in [23]	–	
> <i>SIR</i>					–	
>> <i>SIR</i>	M		INTEGER (0..63)	According to mapping in [22] and [23]	–	
> <i>SIR Error</i>				FDD only	–	
>> <i>SIR Error</i>	M		INTEGER (0..125)	According to mapping in [22]	–	
> <i>Transmitted Code Power</i>					–	
>> <i>Transmitted Code Power</i>	M		INTEGER (0..127)	According to mapping in [22] and [23]	–	
> <i>RSCP</i>				TDD only	–	
>> <i>RSCP</i>	M		INTEGER (0..127)	According to mapping in [23]	–	
> <i>Rx Timing Deviation</i>				Applicable to 3.84Mcps TDD only	–	
>> <i>Rx Timing Deviation</i>	M		INTEGER (0..8191)	According to mapping in [23]	–	
> <i>Round Trip Time</i>				FDD only	–	
>> <i>Round Trip Time</i>	M		INTEGER (0..32767)	According to mapping in [22]	–	
> <i>Not Used 1 Acknowledged PCPCH Access Preambles</i>			NULL	This choice shall not be used. Reject procedure if received. FDD only	–	
>> <i>Acknowledged PCPCH Access Preambles</i>	M		INTEGER (0..15,...)	According to mapping in [22]	–	
> <i>Not Used 2 Detected PCPCH Access Preambles</i>			NULL	This choice shall not be used. Reject procedure if received. FDD only	–	
>> <i>Detected PCPCH Access Preambles</i>	M		INTEGER (0..240,...)	According to mapping in [22]	–	
> <i>Additional Measurement Thresholds</i>					–	
>> <i>UTRAN GPS Timing Of Cell Frames For UE Positioning</i>					–	
>>> <i>TUTRAN-GPS Measurement Threshold Information</i>	M		9.2.1.64B		YES	reject
>> <i>SFN-SFN Observed Time Difference</i>					–	

>>>SFN-SFN Measurement Threshold Information	M		9.2.1.53C		YES	reject
>>Rx Timing Deviation LCR				Applicable to 1.28Mcps TDD Only	–	
>>>Rx Timing Deviation LCR	M		INTEGER (0..511)	According to mapping in [23]	YES	reject
>>HS-SICH Reception Quality				Applicable to TDD Only	–	
>>>HS-SICH Reception Quality	M		INTEGER (0..20)	According to mapping in [23]	YES	reject
>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission					–	
>>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission	M		INTEGER (0..100)	According to mapping in [22] and [23]	YES	reject
>>HS-DSCH Required Power					–	
>>>HS-DSCH Required Power Value	M		9.2.1.31Iba		YES	reject
>>Transmitted Carrier Power For Cell Portion				FDD only	–	
>>>Transmitted Carrier Power For Cell Portion	M		INTEGER (0..100)	Mapping identical to the one for Transmitted Carrier Power measurement in [22]	YES	reject
>>Received Total Wide Band Power For Cell Portion				FDD only	–	
>>>Received Total Wide Band Power For Cell Portion	M		INTEGER (0..621)	Mapping identical to the one for Received Total Wide Band Power measurement in [22]	YES	reject
>>Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission For Cell Portion				FDD only	–	
>>> Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission Value For Cell Portion	M		INTEGER (0..100)	Mapping identical to the one for Transmitted Carrier Power Of All Codes Not Used For HS-PDSCH Or HS-SCCH Transmission measurement in [22]	YES	reject
>>UpPTS interference				1.28Mcps TDD Only	–	
>>>UpPTS interference Value	M		INTEGER (0..127,...)	According to mapping in [23]	YES	reject
>>DL Transmission Branch Load				FDD Only	–	

>>>DL Transmission Branch Load Value	M		INTEGER (0..101,...)	According to mapping in [22]	YES	reject
>>HS-DSCH Required Power For Cell Portion				FDD only	–	
>>>HS-DSCH Required Power Value For Cell Portion	M		9.2.1.31Iba		YES	reject

### 9.2.1.58 TFCS (Transport Format Combination Set)

The Transport Format Combination Set is defined as a set of Transport Format Combinations on a Coded Composite Transport Channel. It is the allowed Transport Format Combinations of the corresponding Transport Channels. The DL Transport Format Combination Set is applicable for DL Transport Channels.

[FDD - Where the UE is assigned access to one or more DSCH transport channels then the UTRAN has the choice of two methods for signalling the mapping between TFCI(field 2) values and the corresponding TFC:

#### Method #1 - TFCI range

The mapping is described in terms of a number of groups, each group corresponding to a given transport format combination (value of CTFC(field2)). The CTFC(field2) value specified in the first group applies for all values of TFCI(field 2) between 0 and the specified 'Max TFCI(field2) value'. The CTFC(field2) value specified in the second group applies for all values of TFCI(field 2) between the 'Max TFCI(field2) value' specified in the last group plus one and the specified 'Max TFCI(field2) value' in the second group. The process continues in the same way for the following groups with the TFCI(field 2) value used by the UE in constructing its mapping table starting at the largest value reached in the previous group plus one.

#### Method #2 - Explicit

The mapping between TFCI(field 2) value and CTFC(field2) is spelt out explicitly for each value of TFCI (field2) ]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CHOICE <i>DSCH</i>	M			
> <i>No split in TFCI</i>				This choice is made if : a) The TFCS refers to the Uplink. OR b) The mode is FDD and none of the Radio Links of the concerned UE are assigned any DSCH transport channels. OR c) The mode is TDD.
>>TFCS		1..<maxno ofTFCs>		The first instance of the parameter corresponds to TFCI zero, the second to 1 and so on. [TDD - The first entry (for TFCI 0) should be ignored by the receiver.]
>>>CTFC	M		9.2.1.18A	
>>>CHOICE <i>Gain Factors</i>	C-PhysChan			
>>>>Signalled <i>Gain Factors</i>				
>>>>>CHOICE <i>Mode</i>	M			
>>>>>>FDD				
>>>>>>>Gain Factor $\beta_c$	M		INTEGER (0..15)	For UL DPCCCH or control part of PRACH- <del>or control part of PCPCH in FDD</del> ; mapping in accordance to [9]
>>>>>>>Gain Factor $\beta_D$	M		INTEGER (0..15)	For UL DPDCH or data part of PRACH- <del>or data part of PCPCH in FDD</del> ; mapping in accordance to [9]
>>>>>>>TDD				
>>>>>>>>Gain Factor $\beta$	M		iNTEGER (0..15)	For UL DPCH in TDD; mapping in accordance to [20].
>>>>>>Reference TFC nr	O		INTEGER (0..3)	If this TFC is a reference TFC, this IE indicates the reference number.
>>>>>Computed <i>Gain Factors</i>				
>>>>>>Reference TFC nr	M		INTEGER (0..3)	Indicates the reference TFC to be used to calculate the gain factors for this TFC.
> <i>There is a split in the TFCI</i>				This choice is made if : a) The TFCS refers to the Downlink. AND b) The mode is FDD and one of the Radio Links of the concerned UE is assigned one or more DSCH transport channels.
>>Transport Format Combination DCH		1..<maxTF Cl_1_Comb>		The first instance of the <i>Transport Format Combination DCH</i> IE corresponds to TFCI (field 1) = 0, the second to TFCI (field 1) = 1 and so on.
>>>CTFC(field1)	M		CTFC 9.2.1.18A	
>>CHOICE <i>Signalling Method</i>	M			
>>>TFCI Range				
>>>>TFC Mapping On DSCH		1..<maxNo TFCIGrou		

		<i>ps&gt;</i>		
>>>>Max TFCI(field2) Value	M		INTEGER (1..1023)	This is the Maximum value in the range of TFCI(field2) values for which the specified CTFC(field2) applies
>>>>CTFC(field2)	M		CTFC 9.2.1.18A	
>>>Explicit				
>>>>Transport Format Combination DSCH		1..<maxTF Cl_2_Combs>		The first instance of the <i>Transport Format Combination DSCH</i> IE corresponds to TFCI (field2) = 0, the second to TFCI (field 2) = 1 and so on.
>>>>CTFC(field2)	M		CTFC 9.2.1.18A	

Condition	Explanation
PhysChan	The IE shall be present if the TFCS concerns a UL DPCH or PRACH channel <del>{FDD or PCPCH channel}</del> .

Range Bound	Explanation
<i>maxnoofTFCs</i>	The maximum number of Transport Format Combinations
<i>maxTFCI_1_Combs</i>	Maximum number of TFCI (field 1) combinations (given by 2 raised to the power of the length of the TFCI (field 1))
<i>maxTFCI_2_Combs</i>	Maximum number of TFCI (field 2) combinations (given by 2 raised to the power of the length of the TFCI (field 2))
<i>maxNoTFCIGroups</i>	Maximum number of groups, each group described in terms of a range of TFCI(field 2) values for which a single value of CTFC(field2) applies



### 9.2.2.1A AP Preamble Signature

[Void.](#)

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
AP-Preamble-Signature			INTEGER (0..15)	Described in ref. [9]

### 9.2.2.1B AP Sub Channel Number

[Void.](#)

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
AP-Sub-Channel-Number			INTEGER (0..11)	Described in ref. [10]

### 9.2.2.1Ba Best Cell Portions

Best Cell Portions IE indicates the best received cell portions and their SIR values when Cell Portions are defined in the cell.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
<b>Best Cell Portions</b>		1..<maxno ofBestCell Portions>		
>Cell Portion ID	M		9.2.2.1Ca	
>SIR Value	M		INTEGER (0..63)	According to mapping in [22] and [23]

Range Bound	Explanation
maxnoofBestCellPortions	Maximum number of reported Best Received Cell Portions

### 9.2.2.1C CD Sub Channel Numbers

[Void.](#)

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
CD-Sub-Channel-Numbers			BIT-STRING (12)	Each bit indicates availability for a subchannel, where the subchannels are numbered "subchannel-0" to "subchannel-11". The value 1 of a bit indicates that the corresponding subchannel is available and the value 0 indicates that it is not available. The order of bits is to be interpreted according to subclause 9.3.4. See also [10].

### 9.2.2.1Ca Cell Portion ID

Cell Portion ID is the unique identifier for a cell portion within a cell. See [4].

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Cell Portion ID			INTEGER (0..63,...)	

### 9.2.2.1D Channel Assignment Indication

[Void.](#)

The Channel Assingment Indication indicates whether CA is active or inactive. When CA is active, CPCH is in Versatile Channel Assingment Method (VCAM) mode and when CA is inactive, CPCH is in UE Channel Selection Method (UCSM) mode. In VCAM mode (CA active), CA message in CD/CA ICH shall be sent.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Channel Assignment Indication			ENUMERATED (CA Active, CA Inactive)	

9.2.2.4A CPCH Allowed Total Rate

[Void.](#)

IE/Group-Name	Presence	Range	IE-Type and Reference	Semantics-Description
CPCH-Allowed-Total-Rate			ENUMERATED (15, 30, 60, 120, 240, 480, 960, 1920, 2880, 3840, 4800, 5760, ...)	Channel-Symbol-Rate Unit: kbps

9.2.2.4B CPCH Scrambling Code Number

[Void.](#)

IE/Group-Name	Presence	Range	IE-Type and Reference	Semantics-Description
CPCH-Scrambling-Code-Number			INTEGER (0..79)	Described in ref. [9]

9.2.2.4C CPCH UL DPCCH Slot Format

[Void.](#)

Indicates the slot format used in UL CPCH message control part, accordingly to ref. [7]

IE/Group-Name	Presence	Range	IE-Type and Reference	Semantics-Description
CPCH-UL-DPCCH-Slot-Format			INTEGER (0..2, ...)	

### 9.2.2.20A Max Number Of PCPCHs

[Void.](#)

<b>IE/Group Name</b>	<b>Presence</b>	<b>Range</b>	<b>IE Type and Reference</b>	<b>Semantics Description</b>
Max Number Of PCPCHs			INTEGER (1..64,...)	

9.2.2.23A N\_EOT

[Void.](#)

~~The N\_EOT is defined as number of End of Transmission for release of PCPCH transmission.~~

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
N_EOT			INTEGER (0..8)	Unit: TTI Value "8" is never used in this release.

9.2.2.23B NF\_max

[Void.](#)

~~The NF\_max is defined as maximum number of Frame in a PCPCH message data part.~~

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
NF_max			INTEGER (1..64,...)	

9.2.2.23C N\_Start\_Message

[Void.](#)

~~The N\_Start\_Message is defined as number of Frames for start message of DL DPDCHs for a CPCH.~~

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
N_Start_Message			INTEGER (1..8)	

9.2.2.23D Number Of Reported Cell Portions

Number of Reported Cell Portions indicates the number of Best Cell Portions values which shall be included in the measurement report.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Number Of Reported Cell Portions			INTEGER (1..64,...)	

9.2.2.24 Pattern Duration (PD)

Void.

9.2.2.24A PCP Length

[Void.](#)

~~Indicates CPCH power control preamble length.~~

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
PCP Length			ENUMERATED (0..8)	

### 9.3.3 PDU Definitions

```

-- *****
--
-- PDU definitions for NBAP.
--
-- *****

NBAP-PDU-Contents {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

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

IMPORTS
  Active-Pattern-Sequence-Information,
  AddorDeleteIndicator,
  AICH-Power,
  AICH-TransmissionTiming,
  AllocationRetentionPriority,
  APPreambleSignature,
  APSubChannelNumber,
  AvailabilityStatus,
  BCCH-ModificationTime,
  BindingID,
  BlockingPriorityIndicator,
  SCTD-Indicator,
  Cause,
  CCTrCH-ID,
  CSubChannelNumbers,
  CellParameterID,
  CellPortionID,
  CellSyncBurstCode,
  CellSyncBurstCodeShift,
  CellSyncBurstRepetitionPeriod,
  CellSyncBurstSIR,
  CellSyncBurstTiming,
  CellSyncBurstTimingThreshold,
  CFN,
  Channel-Assignment-Indication,
  ChipOffset,
  C-ID,
  ClosedloopTimingadjustmentmode,

```

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CommonChannelsCapacityConsumptionLaw,  
Compressed-Mode-Deactivation-Flag,  
CommonMeasurementAccuracy,  
CommonMeasurementType,  
CommonMeasurementValue,  
CommonMeasurementValueInformation,  
CommonPhysicalChannelID,  
Common-PhysicalChannel-Status-Information,  
Common-TransportChannel-Status-Information,  
CommonTransportChannelID,  
CommonTransportChannel-InformationResponse,  
CommunicationControlPortID,  
ConfigurationGenerationID,  
ConstantValue,  
CriticalityDiagnostics,  
~~CPCH-Allowed-Total-Rate,~~  
~~CPCHScramblingCodeNumber,~~  
~~CPCH-UL-DPCH-SlotFormat,~~  
CRNC-CommunicationContextID,  
CSBMeasurementID,  
CSBTransmissionID,  
DCH-FDD-Information,  
DCH-InformationResponse,  
DCH-ID,  
FDD-DCHs-to-Modify,  
TDD-DCHs-to-Modify,  
DCH-TDD-Information,  
DedicatedChannelsCapacityConsumptionLaw,  
DedicatedMeasurementType,  
DedicatedMeasurementValue,  
DedicatedMeasurementValueInformation,  
DelayedActivation,  
DelayedActivationUpdate,  
DiversityControlField,  
DiversityMode,  
DL-DPCH-SlotFormat,  
DL-DPCH-TimingAdjustment,  
DL-or-Global-CapacityCredit,  
DL-Power,  
DL-PowerBalancing-Information,  
DL-PowerBalancing-ActivationIndicator,  
DLPowerAveragingWindowSize,  
DL-PowerBalancing-UpdatedIndicator,  
DL-ScramblingCode,  
DL-TimeslotISCP,  
DL-Timeslot-Information,  
DL-TimeslotLCR-Information,  
DL-TimeslotISCPInfo,  
DL-TimeslotISCPInfoLCR,  
DL-TPC-Pattern01Count,  
DPC-Mode,  
DPCH-ID,  
DSCH-ID,

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DSCH-FDD-Common-Information,  
DSCH-FDD-Information,  
DSCH-InformationResponse,  
DSCH-TDD-Information,  
DwPCH-Power,  
E-AGCH-FDD-Code-Information,  
E-DCH-Capability,  
E-DCH-FDD-DL-Control-Channel-Information,  
E-DCH-FDD-Information,  
E-DCH-FDD-Information-Response,  
E-DCH-FDD-Information-to-Modify,  
E-DCH-MACdFlows-Information,  
E-DCH-MACdFlows-to-Delete,  
E-DCH-RL-Indication,  
E-RGCH-E-HICH-FDD-Code-Information,  
End-Of-Audit-Sequence-Indicator,  
EnhancedDSCHPC,  
EnhancedDSCHPCCounter,  
EnhancedDSCHPCIndicator,  
EnhancedDSCHPCWnd,  
EnhancedDSCHPowerOffset,  
E-TFCS,  
E-TTI,  
FDD-DL-ChannelisationCodeNumber,  
FDD-DL-CodeInformation,  
FDD-S-CCPCH-Offset,  
FDD-TPC-DownlinkStepSize,  
FirstRLS-Indicator,  
FNReportingIndicator,  
FPACH-Power,  
FrameAdjustmentValue,  
FrameHandlingPriority,  
FrameOffset,  
HSDPA-Capability,  
HS-PDSCH-FDD-Code-Information,  
HS-SCCH-ID,  
HS-SCCH-FDD-Code-Information,  
HS-SICH-ID,  
IB-OC-ID,  
IB-SG-DATA,  
IB-SG-POS,  
IB-SG-REP,  
IB-Type,  
InformationExchangeID,  
InformationReportCharacteristics,  
InformationType,  
Initial-DL-DPCH-TimingAdjustment-Allowed,  
InnerLoopDLPCStatus,  
IPDL-FDD-Parameters,  
IPDL-TDD-Parameters,  
IPDL-Indicator,  
IPDL-TDD-Parameters-LCR,  
LimitedPowerIncrease,



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Local-Cell-ID,  
MaximumDL-PowerCapability,  
Maximum-PDSCH-Power,  
MaximumTransmissionPower,  
~~Max-Number-of-PCPCHes,~~  
MaxNrOfUL-DPDCHs,  
MaxNrOfUL-E-DPDCHs,  
MaxPRACH-MidambleShifts,  
MeasurementFilterCoefficient,  
MeasurementID,  
MeasurementRecoveryBehavior,  
MeasurementRecoveryReportingIndicator,  
MeasurementRecoverySupportIndicator,  
MICH-CFN,  
MICH-Mode,  
MidambleAllocationMode,  
MidambleShiftAndBurstType,  
MidambleShiftLCR,  
MinimumDL-PowerCapability,  
MinSpreadingFactor,  
MinUL-ChannelisationCodeLength,  
MinUL-ChannelisationCodeLengthforE-DCH-FDD,  
Modification-Period,  
MultiplexingPosition,  
~~NEOT,~~  
NCyclesPerSFNperiod,  
~~NFmax,~~  
NRepetitionsPerCyclePeriod,  
N-INSYNC-IND,  
N-OUTSYNC-IND,  
NeighbouringCellMeasurementInformation,  
NeighbouringFDDCellMeasurementInformation,  
NeighbouringTDDCellMeasurementInformation,  
NI-Information,  
NodeB-CommunicationContextID,  
NotificationIndicatorLength,  
NumberOfReportedCellPortions,  
~~NStartMessage,~~  
NSubCyclesPerCyclePeriod,  
PagingIndicatorLength,  
PayloadCRC-PresenceIndicator,  
PCCPCH-Power,  
~~PCP-Length,~~  
PDSCH-CodeMapping,  
PDSCHSet-ID,  
PDSCH-ID,  
PICH-Mode,  
PICH-Power,  
PowerAdjustmentType,  
PowerOffset,  
PowerRaiseLimit,  
PRACH-Midamble,  
PreambleSignatures,

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PreambleThreshold,  
PredictedSFNSFNDeviationLimit,  
PredictedTUTRANGPSDeviationLimit,  
PrimaryCPICH-Power,  
Primary-CPICH-Usage-for-Channel-Estimation,  
PrimaryScramblingCode,  
PropagationDelay,  
SCH-TimeSlot,  
PunctureLimit,  
PUSCHSet-ID,  
PUSCH-ID,  
QE-Selector,  
Qth-Parameter,  
RACH-SlotFormat,  
RACH-SubChannelNumbers,  
ReferenceClockAvailability,  
ReferenceSFNoffset,  
RepetitionLength,  
RepetitionPeriod,  
ReportCharacteristics,  
RequestedDataValue,  
RequestedDataValueInformation,  
ResourceOperationalState,  
RL-Set-ID,  
RL-ID,  
RL-Specific-DCH-Info,  
Received-total-wide-band-power-Value,  
AdjustmentPeriod,  
ScaledAdjustmentRatio,  
MaxAdjustmentStep,  
RNC-ID,  
ScramblingCodeNumber,  
Secondary-CPICH-Information-Change,  
SecondaryCCPCH-SlotFormat,  
Segment-Type,  
Serving-E-DCH-RL-ID,  
S-FieldLength,  
SFN,  
SFNSFNChangeLimit,  
SFNSFNDriftRate,  
SFNSFNDriftRateQuality,  
SFNSFNQuality,  
ShutdownTimer,  
SIB-Originator,  
SpecialBurstScheduling,  
SignallingBearerRequestIndicator,  
SSDT-Cell-Identity,  
SSDT-CellID-Length,  
SSDT-Indication,  
Start-Of-Audit-Sequence-Indicator,  
STTD-Indicator,  
SSDT-SupportIndicator,  
SyncCase,

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SYNCD1CodeId,  
SyncFrameNumber,  
SynchronisationReportCharacteristics,  
SynchronisationReportType,  
T-Cell,  
T-RLFAILURE,  
TDD-ChannelisationCode,  
TDD-ChannelisationCodeLCR,  
TDD-DL-Code-LCR-Information,  
TDD-DPCHOffset,  
TDD-TPC-DownlinkStepSize,  
TDD-PhysicalChannelOffset,  
TDD-UL-Code-LCR-Information,  
TFCI2-BearerInformationResponse,  
TFCI2BearerRequestIndicator,  
TFCI-Coding,  
TFCI-Presence,  
TFCI-SignallingMode,  
TFCS,  
TimeSlot,  
TimeSlotLCR,  
TimeSlotDirection,  
TimeSlotStatus,  
TimingAdjustmentValue,  
TimingAdvanceApplied,  
TnlQos,  
ToAWE,  
ToAWS,  
TransmissionDiversityApplied,  
TransmitDiversityIndicator,  
TransmissionGapPatternSequenceCodeInformation,  
Transmission-Gap-Pattern-Sequence-Information,  
TransportBearerRequestIndicator,  
TransportFormatSet,  
TransportLayerAddress,  
TSTD-Indicator,  
TUTRANGPS,  
TUTRANGPSChangeLimit,  
TUTRANGPSDriftRate,  
TUTRANGPSDriftRateQuality,  
TUTRANGPSQuality,  
UARFCN,  
UC-Id,  
USCH-Information,  
USCH-InformationResponse,  
UL-CapacityCredit,  
UL-DPCCH-SlotFormat,  
UL-DPDCH-Indicator-For-E-DCH-Operation,  
UL-SIR,  
UL-FP-Mode,  
UL-PhysCH-SF-Variation,  
UL-ScramblingCode,

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```
UL-Timeslot-Information,  
UL-TimeslotLCR-Information,  
UL-TimeSlot-ISCP-Info,  
UL-TimeSlot-ISCP-LCR-Info,  
UL-TimeslotISCP-Value,  
UL-TimeslotISCP-Value-IncrDecrThres,  
USCH-ID,  
HSDSCH-FDD-Information,  
HSDSCH-FDD-Information-Response,  
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,  
PrimaryCCPCH-RSCP,  
HSDSCH-FDD-Update-Information,  
HSDSCH-TDD-Update-Information,  
UL-Synchronisation-Parameters-LCR,  
TDD-DL-DPCH-TimeSlotFormat-LCR,  
TDD-UL-DPCH-TimeSlotFormat-LCR,  
TDD-TPC-UplinkStepSize-LCR,  
CellSyncBurstTimingLCR,  
TimingAdjustmentValueLCR,  
PrimaryCCPCH-RSCP-Delta  
FROM NBAP-IEs  
  
PrivateIE-Container{ },  
ProtocolExtensionContainer{ },  
ProtocolIE-Container{ },  
ProtocolIE-Single-Container{ },  
ProtocolIE-ContainerList{ },  
NBAP-PRIVATE-IES,  
NBAP-PROTOCOL-IES,  
NBAP-PROTOCOL-EXTENSION  
FROM NBAP-Containers  
  
id-Active-Pattern-Sequence-Information,  
id-Additional-S-CCPCH-Parameters-CTCH-ReconfRqstTDD,  
id-Additional-S-CCPCH-Parameters-CTCH-SetupRqstTDD,  
id-Additional-S-CCPCH-LCR-Parameters-CTCH-ReconfRqstTDD,  
id-Additional-S-CCPCH-LCR-Parameters-CTCH-SetupRqstTDD,  
id-AdjustmentRatio,  
id-AICH-Information,  
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-AP-AICH-Information,  
id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD,  
id-BCH-Information,  
id-BCCH-ModificationTime,  
id-bindingID,  
id-BlockingPriorityIndicator,
```

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id-Cause,  
id-CauseLevel-PSCH-ReconfFailure,  
id-CauseLevel-RL-AdditionFailureFDD,  
id-CauseLevel-RL-AdditionFailureTDD,  
id-CauseLevel-RL-ReconfFailure,  
id-CauseLevel-RL-SetupFailureFDD,  
id-CauseLevel-RL-SetupFailureTDD,  
id-CauseLevel-SyncAdjustmntFailureTDD,  
id-CCP-InformationItem-AuditRsp,  
id-CCP-InformationList-AuditRsp,  
id-CCP-InformationItem-ResourceStatusInd,  
id-CCTrCH-InformationItem-RL-FailureInd,  
id-CCTrCH-InformationItem-RL-RestoreInd,  
id-CCTrCH-Initial-DL-Power-RL-AdditionRqstTDD,  
id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD,  
id-CCTrCH-Initial-DL-Power-RL-SetupRqstTDD,  
~~id-CDCA-ICH-Information,~~  
~~id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD,~~  
id-CellAdjustmentInfo-SyncAdjustmntRqstTDD,  
id-CellAdjustmentInfoItem-SyncAdjustmntRqstTDD,  
id-Cell-InformationItem-AuditRsp,  
id-Cell-InformationItem-ResourceStatusInd,  
id-Cell-InformationList-AuditRsp,  
id-CellParameterID,  
id-CellPortion-InformationItem-Cell-SetupRqstFDD,  
id-CellPortion-InformationList-Cell-SetupRqstFDD,  
id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD,  
id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD,  
id-cellSyncBurstRepetitionPeriod,  
id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD,  
id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD,  
id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD,  
id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD,  
id-CellSyncBurstInfoList-CellSyncReconfRqstTDD,  
id-CellSyncInfo-CellSyncReprtTDD,  
id-CFN,  
id-CFNReportingIndicator,  
id-C-ID,  
id-Closed-Loop-Timing-Adjustment-Mode,  
id-CommonMeasurementAccuracy,  
id-CommonMeasurementObjectType-CM-Rprt,  
id-CommonMeasurementObjectType-CM-Rqst,  
id-CommonMeasurementObjectType-CM-Rsp,  
id-CommonMeasurementType,  
id-CommonPhysicalChannelID,  
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD,  
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD,  
id-CommunicationContextInfoItem-Reset,  
id-CommunicationControlPortID,  
id-CommunicationControlPortInfoItem-Reset,  
id-Compressed-Mode-Deactivation-Flag,  
id-ConfigurationGenerationID,

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~~id-CPCH-Information,~~  
~~id-CPCH-Parameters-CPCH-SetupRsp,~~  
~~id-CPCH-ParametersListIE-CPCH-ReconfRqstFDD,~~  
id-CRNC-CommunicationContextID,  
id-CriticalityDiagnostics,  
id-CSBTransmissionID,  
id-CSBMeasurementID,  
id-DCHs-to-Add-FDD,  
id-DCHs-to-Add-TDD,  
id-DCH-AddList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfPrepFDD,  
id-DCH-DeleteList-RL-ReconfPrepTDD,  
id-DCH-DeleteList-RL-ReconfRqstFDD,  
id-DCH-DeleteList-RL-ReconfRqstTDD,  
id-DCH-FDD-Information,  
id-DCH-TDD-Information,  
id-DCH-InformationResponse,  
id-DCH-RearrangeList-Bearer-RearrangeInd,  
id-DSCH-RearrangeList-Bearer-RearrangeInd,  
id-FDD-DCHs-to-Modify,  
id-TDD-DCHs-to-Modify,  
id-DedicatedMeasurementObjectType-DM-Rprt,  
id-DedicatedMeasurementObjectType-DM-Rqst,  
id-DedicatedMeasurementObjectType-DM-Rsp,  
id-DedicatedMeasurementType,  
id-DelayedActivation,  
id-DelayedActivationList-RL-ActivationCmdFDD,  
id-DelayedActivationList-RL-ActivationCmdTDD,  
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id-InformationExchangeObjectType-InfEx-Rqst ,

id-InformationExchangeObjectType-InfEx-Rsp,  
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id-InformationReportCharacteristics,  
id-InformationType,  
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id-Initial-DL-DPCH-TimingAdjustment,  
id-Initial-DL-DPCH-TimingAdjustment-Allowed,  
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id-IPDLParameter-Information-Cell-SetupRqstFDD,  
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id-Local-Cell-ID,  
id-Local-Cell-Group-InformationItem-AuditRsp,  
id-Local-Cell-Group-InformationItem-ResourceStatusInd,  
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id-Local-Cell-Group-InformationList-AuditRsp,  
id-Local-Cell-InformationItem-AuditRsp,  
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id-Local-Cell-InformationItem2-ResourceStatusInd,  
id-Local-Cell-InformationList-AuditRsp,  
id-AdjustmentPeriod,  
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id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst,  
id-MICH-CFN,  
id-MICH-Information-AuditRsp,  
id-MICH-Information-ResourceStatusInd,  
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id-NI-Information-NotifUpdateCmd,  
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id-P-CCPCH-Information,  
id-P-CPICH-Information,  
id-P-SCH-Information,  
id-PCCPCH-Information-Cell-ReconfRqstTDD,  
id-PCCPCH-Information-Cell-SetupRqstTDD,  
id-PCH-Parameters-CTCH-ReconfRqstTDD,  
id-PCH-Parameters-CTCH-SetupRsp,  
id-PCH-ParametersItem-CTCH-ReconfRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstFDD,  
id-PCH-ParametersItem-CTCH-SetupRqstTDD,  
id-PCH-Information,  
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id-PICH-ParametersItem-CTCH-ReconfRqstFDD,  
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst,  
id-PDSCH-Information-Cell-SetupRqstFDD,  
id-PDSCH-Information-Cell-ReconfRqstFDD,  
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id-PDSCH-RL-ID,  
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id-Power-Local-Cell-Group-InformationItem-AuditRsp,  
id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd,  
id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd,  
id-Power-Local-Cell-Group-InformationList-AuditRsp,  
id-Power-Local-Cell-Group-InformationList-ResourceStatusInd,  
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id-Power-Local-Cell-Group-ID,  
id-PRACH-Information,  
id-PRACHConstant,  
id-PRACH-ParametersItem-CTCH-SetupRqstTDD,  
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD,  
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id-PrimaryCPICH-Information-Cell-ReconfRqstFDD,  
id-PrimaryCPICH-Information-Cell-SetupRqstFDD,  
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id-PrimarySCH-Information-Cell-SetupRqstFDD,  
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id-SCH-Information-Cell-SetupRqstTDD,  
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id-PUSCHConstant,  
id-PUSCHSets-AddList-PSCH-ReconfRqst,

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id-PUSCHSets-DeleteList-PSCH-ReconfRqst ,  
id-PUSCHSets-ModifyList-PSCH-ReconfRqst ,  
id-Qth-Parameter ,  
id-RACH-Information ,  
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id-RL-InformationResponseItem-RL-ReconfRsp ,  
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id-SCH-Information,  
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id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD,  
id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD,  
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id-Secondary-CPICH-Information,  
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD,  
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id-Secondary-CPICH-Information-Change,  
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id-Serving-E-DCH-RL-ID,  
id-SFN,  
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id-ShutdownTimer,  
id-SignallingBearerRequestIndicator,  
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id-Start-Of-Audit-Sequence-Indicator,  
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD,  
id-Synchronisation-Configuration-Cell-ReconfRqst,  
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id-SyncCase,  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH,  
id-SyncFrameNumber,  
id-SynchronisationReportType,  
id-SynchronisationReportCharacteristics,  
id-SyncReportType-CellSyncReprtTDD,  
id-T-Cell,  
id-TargetCommunicationControlPortID,  
id-TFCI2-Bearer-Information-RL-SetupRqstFDD,  
id-TFCI2-BearerInformationResponse,  
id-TFCI2BearerRequestIndicator,  
id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD,  
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id-TimeSlotConfigurationList-Cell-ReconfRqstTDD,  
id-TimeSlotConfigurationList-Cell-SetupRqstTDD,  
id-timeslotInfo-CellSyncInitiationRqstTDD,  
id-TimeslotISCPInfo,  
id-TimingAdvanceApplied,  
id-TnlQos,  
id-TransmissionDiversityApplied,  
id-transportlayeraddress,  
id-Tstd-indicator,  
id-UARFCNforNt,  
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id-UARFCNforNu,  
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD,  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD,  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD,  
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id-UL-CCTrCH-InformationList-RL-SetupRqstTDD,  
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id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD,  
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id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD,  
id-UL-DPCH-Information-RL-ReconfPrepFDD,  
id-UL-DPCH-Information-RL-ReconfRqstFDD,  
id-UL-DPCH-Information-RL-SetupRqstFDD,  
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id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD,  
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id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD,  
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD,  
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id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD,  
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id-USCH-Information,  
id-USCH-RearrangeList-Bearer-RearrangeInd,  
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id-DwPCH-LCR-Information  
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id-DwPCH-LCR-InformationList-AuditRsp,  
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id-TimeSlot ,  
id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD ,  
id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD ,  
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id-TimeSlotLCR-CM-Rqst ,  
id-UL-DPCH-LCR-Information-RL-SetupRqstTDD ,  
id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ,  
id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD ,  
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id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD ,  
id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD ,  
id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD ,  
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id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst ,  
id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst ,  
id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst ,  
id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst ,  
id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst ,  
id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst ,  
id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst ,  
id-PUSCH-Info-DM-Rqst ,  
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id-IPDLParameter-Information-LCR-Cell-ReconfRqstTDD ,  
id-HS-PDSCH-HS-SCCH-MaxPower-PSCH-ReconfRqst ,  
id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRqst ,  
id-HS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst ,  
id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRqst ,  
id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst ,  
id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ,  
id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ,  
id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ,  
id-SYNCDlCodeId-TransInitLCR-CellSyncInitiationRqstTDD ,  
id-SYNCDlCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD ,  
id-SYNCDlCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD ,  
id-SYNCDlCodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD ,  
id-SYNCDlCodeIdMeasInfoList-CellSyncReconfRqstTDD ,  
id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD ,  
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id-DwPCH-Power ,  
id-AccumulatedClockupdate-CellSyncReprtTDD ,  
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id-HSDSCH-FDD-Information ,  
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id-HSDSCH-Information-to-Modify,  
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id-HSDSCH-MACdFlows-to-Add,  
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id-HSDSCH-Resources-Information-AuditRsp,  
id-HSDSCH-Resources-Information-ResourceStatusInd,  
id-HSDSCH-RNTI,  
id-HSDSCH-TDD-Information,  
id-HSDSCH-TDD-Information-Response,  
id-HSPDSCH-RL-ID,  
id-HSSICH-Info-DM-Rprt,  
id-HSSICH-Info-DM-Rqst,  
id-HSSICH-Info-DM-Rsp,  
id-PrimCCPCH-RSCP-DL-PC-RqstTDD,  
id-HSDSCH-FDD-Update-Information,  
id-HSDSCH-TDD-Update-Information,  
id-UL-Synchronisation-Parameters-LCR,  
id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD,  
id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD,  
id-CCTrCH-Maximum-DL-Power-RL-SetupRqstTDD,  
id-CCTrCH-Minimum-DL-Power-RL-SetupRqstTDD,  
id-CCTrCH-Maximum-DL-Power-RL-AdditionRqstTDD,  
id-CCTrCH-Minimum-DL-Power-RL-AdditionRqstTDD,  
id-CCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD,  
id-CCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD,  
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD,  
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD,  
id-Maximum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD,  
id-Minimum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD,  
id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD,  
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD,  
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRqstTDD,  
id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD,  
id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD,  
id-TDD-TPC-DownlinkStepSize-RL-AdditionRqstTDD,  
id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD,  
id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD,  
id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD,  
id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD,  
id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD,  
id-TimingAdjustmentValueLCR,  
id-PrimaryCCPCH-RSCP-Delta,

maxNrOfCCTrCHs,  
maxNrOfCellSyncBursts,  
maxNrOfCodes,  
~~maxNrOfCPCHs,~~  
maxNrOfDCHs,  
maxNrOfDLTSs,  
maxNrOfDLTSLCRs,  
maxNrOfDPCHs,

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```
maxNrOfDPCHLCRs ,
maxNrOfDSCHs ,
maxNrOfFACHs ,
maxNrOfRLs ,
maxNrOfRLs-1 ,
maxNrOfRLs-2 ,
maxNrOfRLSets ,
maxNrOfPCPCHs,
maxNrOfPDSCHs ,
maxNrOfPUSCHs ,
maxNrOfPRACHLCRs ,
maxNrOfPDSCHSets ,
maxNrOfPUSCHSets ,
maxNrOfReceptsPerSyncFrame ,
maxNrOfSCCPCHs ,
maxNrOfSCCPCHsinExt ,
maxNrOfSCCPCHLCRs ,
maxNrOfSCCPCHsLCRinExt ,
maxNrOfULTSs ,
maxNrOfULTSLCRs ,
maxNrOfUSCHs ,
maxAPSigNum,
maxCPCHCell,
maxFACHCell ,
maxFPACHCell ,
maxNoofLen ,
maxRACHCell ,
maxPCPCHCell,
maxPRACHCell ,
maxSCCPCHCell ,
maxSCCPCHCellinExt ,
maxSCCPCHCellinExtLCR ,
maxSCPICHCell ,
maxCellinNodeB ,
maxCCPinNodeB ,
maxCommunicationContext ,
maxLocalCellinNodeB ,
maxNrOfSlotFormatsPRACH ,
maxIB ,
maxIBSEG ,
maxNrOfCellPortionsPerCell ,
maxNrOfHSSCCHs ,
maxNrOfHSSICHs ,
maxNrOfHSPDSCHs ,
maxNrOfSyncFramesLCR ,
maxNrOfReceptionsperSyncFrameLCR ,
maxNrOfSyncDLCodesLCR ,
maxNrOfMACdFlows
FROM NBAP-Constants;

-- *****
--
-- COMMON TRANSPORT CHANNEL SETUP REQUEST FDD
```

```

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

CommonTransportChannelSetupRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonTransportChannelSetupRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-C-ID                CRITICALITY reject          TYPE      C-ID                PRESENCE mandatory }|
    { ID      id-ConfigurationGenerationID  CRITICALITY reject          TYPE      ConfigurationGenerationID  PRESENCE mandatory }|
    { ID      id-CommonPhysicalChannelType-CTCH-SetupRqstFDD  CRITICALITY ignore          TYPE      CommonPhysicalChannelType-CTCH-SetupRqstFDD
    PRESENCE mandatory },
    ...
}

CommonPhysicalChannelType-CTCH-SetupRqstFDD ::= CHOICE {
    secondary-CCPCH-parameters      Secondary-CCPCH-CTCH-SetupRqstFDD,
    pRACH-parameters                PRACH-CTCH-SetupRqstFDD,
    notUsed-pCPCHes-parameters  NULLPCPCH-CTCH-SetupRqstFDD,
    ...
}

Secondary-CCPCH-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID          CommonPhysicalChannelID,
    fdd-S-CCPCH-Offset              FDD-S-CCPCH-Offset,
    dl-ScramblingCode              DL-ScramblingCode  OPTIONAL,
    -- This IE shall be present if the PCH Parameters IE is not present
    fdd-DL-ChannelisationCodeNumber  FDD-DL-ChannelisationCodeNumber,
    tFCS                            TFCS,
    secondary-CCPCH-SlotFormat      SecondaryCCPCH-SlotFormat,
    tFCI-Presence                   TFCI-Presence  OPTIONAL,
    -- This IE shall be present if the Secondary CCPCH Slot Format is set to any of the values from 8 to 17
    multiplexingPosition            MultiplexingPosition,
    powerOffsetInformation           PowerOffsetInformation-CTCH-SetupRqstFDD,
    sTTD-Indicator                  STTD-Indicator,
    fACH-Parameters                 FACH-ParametersList-CTCH-SetupRqstFDD  OPTIONAL,
    pCH-Parameters                  PCH-Parameters-CTCH-SetupRqstFDD  OPTIONAL,
    iE-Extensions                   ProtocolExtensionContainer { { Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs} }  OPTIONAL,
    ...
}

Secondary-CCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MICH-Parameters-CTCH-SetupRqstFDD          CRITICALITY reject  EXTENSION MICH-Parameters-CTCH-SetupRqstFDD  PRESENCE optional },
    ...
}

PowerOffsetInformation-CTCH-SetupRqstFDD ::= SEQUENCE {

```



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```
p01-ForTFCl-Bits      PowerOffset,
p03-ForPilotBits     PowerOffset,
iE-Extensions        ProtocolExtensionContainer { { PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

PowerOffsetInformation-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

FACH-ParametersList-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-SetupRqstFDD }}

FACH-ParametersListIEs-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
{ ID id-FACH-ParametersListIE-CTCH-SetupRqstFDD    CRITICALITY reject    TYPE FACH-ParametersListIE-CTCH-SetupRqstFDD PRESENCE mandatory }
}

FACH-ParametersListIE-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF FACH-ParametersItem-CTCH-SetupRqstFDD

FACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
commonTransportChannelID      CommonTransportChannelID,
transportFormatSet           TransportFormatSet,
toAWS                        ToAWS,
toAWE                        ToAWE,
maxFACH-Power                DL-Power,
iE-Extensions                ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

FACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-bindingID              CRITICALITY ignore    EXTENSION BindingID              PRESENCE optional }|
{ ID id-transportlayeraddress  CRITICALITY ignore    EXTENSION TransportLayerAddress  PRESENCE optional },
...
}

PCH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container {{ PCH-ParametersIE-CTCH-SetupRqstFDD }}

PCH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
{ ID id-PCH-ParametersItem-CTCH-SetupRqstFDD    CRITICALITY reject    TYPE PCH-ParametersItem-CTCH-SetupRqstFDD PRESENCE mandatory }
}

PCH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
commonTransportChannelID      CommonTransportChannelID,
transportFormatSet           TransportFormatSet,
toAWS                        ToAWS,
toAWE                        ToAWE,
pCH-Power                    DL-Power,
pICH-Parameters              PICH-Parameters-CTCH-SetupRqstFDD,
iE-Extensions                ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs} } OPTIONAL,
...
}

PCH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-bindingID              CRITICALITY ignore    EXTENSION BindingID              PRESENCE optional }|
```

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```
{ ID id-transportlayeraddress CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional },
...
}
```

```
PICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  pICH-Power PICH-Power,
  pICH-Mode PICH-Mode,
  sTTD-Indicator STTD-Indicator,
  iE-Extensions ProtocolExtensionContainer { { PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
PICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
MICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  mICH-Power PICH-Power,
  mICH-Mode MICH-Mode,
  sTTD-Indicator STTD-Indicator,
  iE-Extensions ProtocolExtensionContainer { { MICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
MICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
PRACH-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  scramblingCodeNumber ScramblingCodeNumber,
  tFCS TFCS,
  preambleSignatures PreambleSignatures,
  allowedSlotFormatInformationList-CTCH-SetupRqstFDD AllowedSlotFormatInformationList-CTCH-SetupRqstFDD,
  rACH-SubChannelNumbers RACH-SubChannelNumbers,
  ul-punctureLimit PunctureLimit,
  preambleThreshold PreambleThreshold,
  rACH-Parameters RACH-Parameters-CTCH-SetupRqstFDD,
  aICH-Parameters AICH-Parameters-CTCH-SetupRqstFDD,
  iE-Extensions ProtocolExtensionContainer { { PRACHItem-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
PRACHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
AllowedSlotFormatInformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1.. maxNrOfSlotFormatsPRACH)) OF AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD
```

```

AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    rACHSlotFormat          RACH-SlotFormat,
    iE-Extensions          ProtocolExtensionContainer { { AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD-ExtIEs} }
    OPTIONAL,
    ...
}

```

```

AllowedSlotFormatInformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

RACH-Parameters-CTCH-SetupRqstFDD ::= ProtocolIE-Single-Container { { RACH-ParametersIE-CTCH-SetupRqstFDD } }

```

```

RACH-ParametersIE-CTCH-SetupRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-RACH-ParametersItem-CTCH-SetupRqstFDD    CRITICALITY reject    TYPE RACH-ParametersItem-CTCH-SetupRqstFDD    PRESENCE mandatory }
}

```

```

RACH-ParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonTransportChannelID      CommonTransportChannelID,
    transportFormatSet           TransportFormatSet,
    iE-Extensions                ProtocolExtensionContainer { { RACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs} }    OPTIONAL,
    ...
}

```

```

RACH-ParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-bindingID              CRITICALITY ignore    EXTENSION BindingID              PRESENCE optional } |
    { ID id-transportlayeraddress  CRITICALITY ignore    EXTENSION TransportLayerAddress  PRESENCE optional },
    ...
}

```

```

AICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    aICH-TransmissionTiming      AICH-TransmissionTiming,
    fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
    aICH-Power                   AICH-Power,
    sTTD-Indicator               STTD-Indicator,
    iE-Extensions                ProtocolExtensionContainer { { AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs} }    OPTIONAL,
    ...
}

```

```

AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

PCPCH-CTCH-SetupRqstFDD ::= SEQUENCE {
    ePCH-Parameters              CPCH-Parameters-CTCH-SetupRqstFDD,
    iE-Extensions                ProtocolExtensionContainer { { PCPCHItem-CTCH-SetupRqstFDD-ExtIEs} }    OPTIONAL,
    ...
}


```

```

PCPCHItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}


```

```

}

CPCH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  transportFormatSet TransportFormatSet,
  aPPreambleScramblingCode CPCHScramblingCodeNumber,
  eDPreambleScramblingCode CPCHScramblingCodeNumber,
  tFCS TFCS,
  cDSignatures PreambleSignatures OPTIONAL,
  cDSubChannelNumbers CDSUBChannelNumbers OPTIONAL,
  punctureLimit PunctureLimit,
  cPCH-UL-DPCCH-SlotFormat CPCH-UL-DPCCH-SlotFormat,
  uL-SIR UL-SIR,
  initialDL-transmissionPower DL-Power,
  maximumDLPower DL-Power,
  minimumDLPower DL-Power,
  pO2-ForTPC-Bits PowerOffset,
  fDD-TPC-DownlinkStepSize FDD-TPC-DownlinkStepSize,
  nStartMessage NStartMessage,
  nEOT NEOT,
  channel-Assignment-Indication Channel-Assignment-Indication,
  cPCH-Allowed-Total-Rate CPCH-Allowed-Total-Rate,
  pCPCHChannelInformation PCPCHChannelInformationList-CTCH-SetupRqstFDD,
  vCAMMapping-Information VCAMMapping-InformationList-CTCH-SetupRqstFDD OPTIONAL,
  -- this IE shall be present if the Channel Assignment Indication is set to "CA Active" --
  aP-AICH-Parameters AP-AICH-Parameters-CTCH-SetupRqstFDD,
  cDCA-ICH-Parameters CDCA-ICH-Parameters-CTCH-SetupRqstFDD,
  iE-Extensions ProtocolExtensionContainer { { CPCH-Parameters-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

CPCH-Parameters-CTCH-SetupRqstFDD-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-bindingID CRITICALITY ignore EXTENSION BindingID PRESENCE optional }+
  { ID id-transportlayeraddress CRITICALITY ignore EXTENSION TransportLayerAddress PRESENCE optional },
  ...
}

PCPCHChannelInformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfPCPCHs)) OF PCPCHChannelInformationItem-CTCH-SetupRqstFDD

PCPCHChannelInformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  cPCHScramblingCodeNumber CPCHScramblingCodeNumber,
  dl-ScramblingCode DL-ScramblingCode,
  fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,
  pCP-Length PCP-Length,
  uCSM-Information UCSM-Information-CTCH-SetupRqstFDD OPTIONAL,
  -- this IE shall be present if the Channel Assignment Indication is equal to "CA Inactive" --
  iE-Extensions ProtocolExtensionContainer { { PCPCHChannelInformationItem-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

PCPCHChannelInformationItem-CTCH-SetupRqstFDD-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

}

UCSM-Information-CTCH-SetupRqstFDD ::= SEQUENCE {
  minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength,
  nFmax NFmax,
  channelRequestParameters ChannelRequestParametersList-CTCH-SetupRqstFDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { UCSM-InformationItem-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

UCSM-InformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

ChannelRequestParametersList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxAPSigNum)) OF ChannelRequestParametersItem-CTCH-SetupRqstFDD

ChannelRequestParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
  aPPreambleSignature APPreambleSignature,
  aPSubChannelNumber APSubChannelNumber OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { ChannelRequestParametersItem-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

ChannelRequestParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

VCAMMapping-InformationList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxNoofLen)) OF VCAMMapping-InformationItem-CTCH-SetupRqstFDD

VCAMMapping-InformationItem-CTCH-SetupRqstFDD ::= SEQUENCE {
  minUL-ChannelisationCodeLength MinUL-ChannelisationCodeLength,
  nFmax NFmax,
  max-Number-of-PCPCHes Max-Number-of-PCPCHes,
  sFRequestParameters SFRequestParametersList-CTCH-SetupRqstFDD,
  iE-Extensions ProtocolExtensionContainer { { VCAMMapping-InformationItem-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

VCAMMapping-InformationItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

SFRequestParametersList-CTCH-SetupRqstFDD ::= SEQUENCE (SIZE (1..maxAPSigNum)) OF SFRequestParametersItem-CTCH-SetupRqstFDD

SFRequestParametersItem-CTCH-SetupRqstFDD ::= SEQUENCE {
  aPPreambleSignature APPreambleSignature,
  aPSubChannelNumber APSubChannelNumber OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { SFRequestParametersItem-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,
  ...
}

SFRequestParametersItem-CTCH-SetupRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```
}  
  
AP-AICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {  
  commonPhysicalChannelID CommonPhysicalChannelID,  
  fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,  
  aP-AICH-Power AICH-Power,  
  eSICH-Power AICH-Power,  
  sTTD-Indicator STTD-Indicator,  
  iE-Extensions ProtocolExtensionContainer { { AP-AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,  
  ...  
}  
  
AP-AICH-Parameters-CTCH-SetupRqstFDD-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {  
  ...  
}  
  
CDCA-ICH-Parameters-CTCH-SetupRqstFDD ::= SEQUENCE {  
  commonPhysicalChannelID CommonPhysicalChannelID,  
  fdd-dl-ChannelisationCodeNumber FDD-DL-ChannelisationCodeNumber,  
  eDCA-ICH-Power AICH-Power,  
  sTTD-Indicator STTD-Indicator,  
  iE-Extensions ProtocolExtensionContainer { { CDCA-ICH-Parameters-CTCH-SetupRqstFDD-ExtIEs } } OPTIONAL,  
  ...  
}  
  
CDCA-ICH-Parameters-CTCH-SetupRqstFDD-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {  
  ...  
}
```

```

-- *****
--
-- COMMON TRANSPORT CHANNEL SETUP RESPONSE
--
-- *****

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

CommonTransportChannelSetupResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersList-CTCH-SetupRsp    CRITICALITY ignore  TYPE FACH-CommonTransportChannel-InformationResponse  PRESENCE optional } |
    { ID id-PCH-Parameters-CTCH-SetupRsp        CRITICALITY ignore  TYPE CommonTransportChannel-InformationResponse          PRESENCE optional } |
    { ID id-RACH-Parameters-CTCH-SetupRsp       CRITICALITY ignore  TYPE CommonTransportChannel-InformationResponse          PRESENCE optional } |
    { ID id-CPCH-Parameters-CTCH-SetupRsp      CRITICALITY ignore  TYPE CommonTransportChannel-InformationResponse          PRESENCE optional } |
    { ID id-CriticalityDiagnostics              CRITICALITY ignore  TYPE CriticalityDiagnostics                              PRESENCE optional },
    ...
}

CommonTransportChannelSetupResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

FACH-CommonTransportChannel-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfFACHs)) OF CommonTransportChannel-InformationResponse

```

```

-- *****
--
-- COMMON TRANSPORT CHANNEL RECONFIGURATION REQUEST FDD
--
-- *****

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

CommonTransportChannelReconfigurationRequestFDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-C-ID          CRITICALITY reject TYPE C-ID          PRESENCE mandatory }|
    { ID id-ConfigurationGenerationID CRITICALITY reject TYPE ConfigurationGenerationID PRESENCE mandatory }|
    { ID id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD CRITICALITY reject TYPE CommonPhysicalChannelType-CTCH-ReconfRqstFDD PRESENCE mandatory }
},
...
}

CommonTransportChannelReconfigurationRequestFDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonPhysicalChannelType-CTCH-ReconfRqstFDD ::= CHOICE {
    secondary-CCPCH-parameters Secondary-CCPCHList-CTCH-ReconfRqstFDD,
    pRACH-parameters          PRACHList-CTCH-ReconfRqstFDD,
    notUsed-cPCH-parameters NULLCPCHList-CTCH-ReconfRqstFDD,
    ...
}

Secondary-CCPCHList-CTCH-ReconfRqstFDD ::= SEQUENCE {
    fACH-ParametersList-CTCH-ReconfRqstFDD FACH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
    pCH-ParametersList-CTCH-ReconfRqstFDD PCH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
    pICH-ParametersList-CTCH-ReconfRqstFDD PICH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { Secondary-CCPCH-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
    ...
}

Secondary-CCPCH-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-MICH-ParametersList-CTCH-ReconfRqstFDD CRITICALITY reject EXTENSION MICH-ParametersList-CTCH-ReconfRqstFDD PRESENCE optional },
    ...
}

FACH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ FACH-ParametersListIEs-CTCH-ReconfRqstFDD }}

FACH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-FACH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE FACH-ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory }
}

FACH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxFACHCell)) OF FACH-ParametersItem-CTCH-ReconfRqstFDD

FACH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {

```



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```
commonTransportChannelID          CommonTransportChannelID,
maxFACH-Power                     DL-Power          OPTIONAL,
toAWS                             ToAWS            OPTIONAL,
toAWE                             ToAWE            OPTIONAL,
iE-Extensions                     ProtocolExtensionContainer { { FACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
...
}

FACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PCH-Parameters-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container { { PCH-ParametersIE-CTCH-ReconfRqstFDD } }

PCH-ParametersIE-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
{ ID id-PCH-ParametersItem-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PCH-ParametersItem-CTCH-ReconfRqstFDD PRESENCE mandatory }
}

PCH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
commonTransportChannelID          CommonTransportChannelID,
pCH-Power                       DL-Power          OPTIONAL,
toAWS                           ToAWS            OPTIONAL,
toAWE                           ToAWE            OPTIONAL,
iE-Extensions                   ProtocolExtensionContainer { { PCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
...
}

PCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

PICH-Parameters-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container { { PICH-ParametersIE-CTCH-ReconfRqstFDD } }

PICH-ParametersIE-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
{ ID id-PICH-ParametersItem-CTCH-ReconfRqstFDD CRITICALITY reject TYPE PICH-ParametersItem-CTCH-ReconfRqstFDD PRESENCE mandatory }
}

PICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
commonPhysicalChannelID          CommonPhysicalChannelID,
pICH-Power                       PICH-Power       OPTIONAL,
iE-Extensions                   ProtocolExtensionContainer { { PICH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
...
}

PICH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

MICH-Parameters-CTCH-ReconfRqstFDD ::= SEQUENCE {
commonPhysicalChannelID          CommonPhysicalChannelID,
mICH-Power                       PICH-Power       OPTIONAL,
iE-Extensions                   ProtocolExtensionContainer { { MICH-Parameters-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
...
}
```

```

}

MICH-Parameters-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PRACHList-CTCH-ReconfRqstFDD ::= SEQUENCE {
    pRACH-ParametersList-CTCH-ReconfRqstFDD    PRACH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
    aICH-ParametersList-CTCH-ReconfRqstFDD    AICH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
    iE-Extensions                               ProtocolExtensionContainer { { PRACH-CTCH-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

PRACH-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PRACH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ PRACH-ParametersListIEs-CTCH-ReconfRqstFDD }}

PRACH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
    { ID id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD    CRITICALITY reject    TYPE PRACH-ParametersListIE-CTCH-ReconfRqstFDD    PRESENCE mandatory }
}

PRACH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF PRACH-ParametersItem-CTCH-ReconfRqstFDD

PRACH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    commonPhysicalChannelID                CommonPhysicalChannelID,
    preambleSignatures                     PreambleSignatures                                OPTIONAL,
    allowedSlotFormatInformation            AllowedSlotFormatInformationList-CTCH-ReconfRqstFDD    OPTIONAL,
    rACH-SubChannelNumbers                 RACH-SubChannelNumbers                                OPTIONAL,
    iE-Extensions                          ProtocolExtensionContainer { { PRACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs} } OPTIONAL,
    ...
}

PRACH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AllowedSlotFormatInformationList-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1.. maxNrOfSlotFormatsPRACH)) OF AllowedSlotFormatInformationItem-CTCH-
ReconfRqstFDD

AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
    rACH-SlotFormat                        RACH-SlotFormat,
    iE-Extensions                          ProtocolExtensionContainer { { AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD-ExtIEs} }
    OPTIONAL,
    ...
}

AllowedSlotFormatInformationItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

AICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container {{ AICH-ParametersListIEs-CTCH-ReconfRqstFDD }}

```

```
AICH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-AICH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE AICH-ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory }
}
```

```
AICH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF AICH-ParametersItem-CTCH-ReconfRqstFDD
```

```
AICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  aICH-Power AICH-Power OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
CPCHList-CTCH-ReconfRqstFDD ::= SEQUENCE {
  cPCH-ParametersList-CTCH-ReconfRqstFDD CPCH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
  aP-AICH-ParametersList-CTCH-ReconfRqstFDD AP-AICH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
  cDCA-ICH-ParametersList-CTCH-ReconfRqstFDD CDCA-ICH-ParametersList-CTCH-ReconfRqstFDD OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { CPCHListItem-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
CPCHListItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
CPCH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container { { CPCH-ParametersListIEs-CTCH-ReconfRqstFDD } }
```

```
CPCH-ParametersListIEs-CTCH-ReconfRqstFDD NBAP-PROTOCOL-IES ::= {
  { ID id-CPCH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE CPCH-ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory }
}
```

```
CPCH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCPCHs)) OF CPCH-ParametersItem-CTCH-ReconfRqstFDD
```

```
CPCH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  commonTransportChannelID CommonTransportChannelID,
  uL-SIR UL-SIR OPTIONAL,
  initialDL-transmissionPower DL-Power OPTIONAL,
  maximumDLPower DL-Power OPTIONAL,
  minimumDLPower DL-Power OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { CPCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs } } OPTIONAL,
  ...
}
```

```
CPCH-ParametersItem-CTCH-ReconfRqstFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
AP-AICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container { { AP-AICH-ParametersListIEs-CTCH-ReconfRqstFDD } }
```

```

AP-AICH-ParametersListIEs-CTCH-ReconfRqstFDD-NBAP-PROTOCOL-IES ::= {
  { ID id-AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory }
}

AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCPCHs)) OF AP-AICH-ParametersItem-CTCH-ReconfRqstFDD

AP-AICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  aP-AICH-Power AICH-Power OPTIONAL,
  cSICH-Power AICH-Power OPTIONAL,
  iE-Extensions ProtocolExtensionContainer ( { AP-AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs } ) OPTIONAL,
  ...
}

AP-AICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CDCA-ICH-ParametersList-CTCH-ReconfRqstFDD ::= ProtocolIE-Single-Container ( { CDCA-ICH-ParametersListIEs-CTCH-ReconfRqstFDD } )

CDCA-ICH-ParametersListIEs-CTCH-ReconfRqstFDD-NBAP-PROTOCOL-IES ::= {
  { ID id-CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD CRITICALITY reject TYPE CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD PRESENCE mandatory }
}
}

CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD ::= SEQUENCE (SIZE (1..maxNrOfCPCHs)) OF CDCA-ICH-ParametersItem-CTCH-ReconfRqstFDD

CDCA-ICH-ParametersItem-CTCH-ReconfRqstFDD ::= SEQUENCE {
  commonPhysicalChannelID CommonPhysicalChannelID,
  cDCA-ICH-Power AICH-Power OPTIONAL,
  iE-Extensions ProtocolExtensionContainer ( { CDCA-ICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs } ) OPTIONAL,
  ...
}

CDCA-ICH-ParametersItemIE-CTCH-ReconfRqstFDD-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

-- *****
--
-- AUDIT RESPONSE
--
-- *****

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

AuditResponse-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-End-Of-Audit-Sequence-Indicator          CRITICALITY ignore TYPE End-Of-Audit-Sequence-Indicator          PRESENCE mandatory } |
    { ID id-Cell-InformationList-AuditRsp           CRITICALITY ignore TYPE Cell-InformationList-AuditRsp           PRESENCE optional } |
    { ID id-CCP-InformationList-AuditRsp           CRITICALITY ignore TYPE CCP-InformationList-AuditRsp           PRESENCE optional } |
    -- CCP (Communication Control Port) --
    { ID id-Local-Cell-InformationList-AuditRsp     CRITICALITY ignore TYPE Local-Cell-InformationList-AuditRsp     PRESENCE optional } |
    { ID id-Local-Cell-Group-InformationList-AuditRsp CRITICALITY ignore TYPE Local-Cell-Group-InformationList-AuditRsp PRESENCE optional } |
    { ID id-CriticalityDiagnostics                 CRITICALITY ignore TYPE CriticalityDiagnostics                 PRESENCE optional } |
    ...
}

AuditResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Power-Local-Cell-Group-InformationList-AuditRsp CRITICALITY ignore EXTENSION Power-Local-Cell-Group-InformationList-AuditRsp PRESENCE optional },
    ...
}

Cell-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ Cell-InformationItemIE-AuditRsp}}

Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
    { ID id-Cell-InformationItem-AuditRsp          CRITICALITY ignore          TYPE Cell-InformationItem-AuditRsp          PRESENCE optional }
}

Cell-InformationItem-AuditRsp ::= SEQUENCE {
    c-ID                      C-ID,
    configurationGenerationID ConfigurationGenerationID,
    resourceOperationalState  ResourceOperationalState,
    availabilityStatus        AvailabilityStatus,
    local-Cell-ID             Local-Cell-ID,
    primary-SCH-Information   P-SCH-Information-AuditRsp          OPTIONAL,
    secondary-SCH-Information S-SCH-Information-AuditRsp          OPTIONAL,
    primary-CPICH-Information P-CPICH-Information-AuditRsp          OPTIONAL,
    secondary-CPICH-InformationList S-CPICH-InformationList-AuditRsp          OPTIONAL,
    primary-CCPCH-Information P-CCPCH-Information-AuditRsp          OPTIONAL,
    bCH-Information           BCH-Information-AuditRsp          OPTIONAL,
    secondary-CCPCH-InformationList S-CCPCH-InformationList-AuditRsp          OPTIONAL,
    pCH-Information           PCH-Information-AuditRsp          OPTIONAL,
    pICH-Information          PICH-Information-AuditRsp          OPTIONAL,
    fACH-InformationList      FACH-InformationList-AuditRsp          OPTIONAL,
    pRACH-InformationList     PRACH-InformationList-AuditRsp          OPTIONAL,
}

```

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```
rACH-InformationList RACH-InformationList-AuditResp OPTIONAL,
aICH-InformationList AICH-InformationList-AuditResp OPTIONAL,
notUsed-1-pCCH-InformationList NULLPCCH-InformationList-AuditResp OPTIONAL,
notUsed-2-cPCH-InformationList NULLCPCH-InformationList-AuditResp OPTIONAL,
notUsed-3-aP-AICH-InformationList NULLAP-AICH-InformationList-AuditResp OPTIONAL,
notUsed-4-cDCA-ICH-InformationList NULLCDCA-ICH-InformationList-AuditResp OPTIONAL,
sCH-Information SCH-Information-AuditResp OPTIONAL,
IE-Extensions ProtocolExtensionContainer { { Cell-InformationItem-AuditResp-ExtIEs } } OPTIONAL,
...
}

Cell-InformationItem-AuditResp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-FPACH-LCR-InformationList-AuditResp CRITICALITY ignore EXTENSION FPACH-LCR-InformationList-AuditResp PRESENCE optional } |
  -- Applicable to 1.28Mcps TDD only
  { ID id-DwPCH-LCR-InformationList-AuditResp CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information PRESENCE optional } |
  -- Applicable to 1.28Mcps TDD only
  { ID id-HSDSCH-Resources-Information-AuditResp CRITICALITY ignore EXTENSION HS-DSCH-Resources-Information-AuditResp PRESENCE optional } |
  { ID id-MICH-Information-AuditResp CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information PRESENCE optional } |
  { ID id-S-CCPCH-InformationListExt-AuditResp CRITICALITY ignore EXTENSION S-CCPCH-InformationListExt-AuditResp PRESENCE optional } |
  -- Applicable to 3.84Mcps TDD only, used when there are more than maxSCCPCHCell SCCPCHs in the cell.
  { ID id-S-CCPCH-LCR-InformationListExt-AuditResp CRITICALITY ignore EXTENSION S-CCPCH-LCR-InformationListExt-AuditResp PRESENCE optional } |
  -- Applicable to 1.28Mcps TDD only, used when there are more than maxSCCPCHCell SCCPCHs in the cell.
  { ID id-E-DCH-Resources-Information-AuditResp CRITICALITY ignore EXTENSION E-DCH-Resources-Information-AuditResp PRESENCE optional },
  ...
}

P-SCH-Information-AuditResp ::= ProtocolIE-Single-Container {{ P-SCH-InformationIE-AuditResp }}

P-SCH-InformationIE-AuditResp NBAP-PROTOCOL-IES ::= {
  { ID id-P-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

S-SCH-Information-AuditResp ::= ProtocolIE-Single-Container {{ S-SCH-InformationIE-AuditResp }}

S-SCH-InformationIE-AuditResp NBAP-PROTOCOL-IES ::= {
  { ID id-S-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

P-CPICH-Information-AuditResp ::= ProtocolIE-Single-Container {{ P-CPICH-InformationIE-AuditResp }}

P-CPICH-InformationIE-AuditResp NBAP-PROTOCOL-IES ::= {
  { ID id-P-CPICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

S-CPICH-InformationList-AuditResp ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container {{ S-CPICH-InformationItemIE-AuditResp }}

S-CPICH-InformationItemIE-AuditResp NBAP-PROTOCOL-IES ::= {
  { ID id-S-CPICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

P-CCPCH-Information-AuditResp ::= ProtocolIE-Single-Container {{ P-CCPCH-InformationIE-AuditResp }}

P-CCPCH-InformationIE-AuditResp NBAP-PROTOCOL-IES ::= {
```

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```
{ ID id-P-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}
BCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ BCH-InformationIE-AuditRsp }}
BCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-BCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory }
}
S-CCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-AuditRsp }}
S-CCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-S-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}
PCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ PCH-InformationIE-AuditRsp }}
PCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory }
}
PICH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ PICH-InformationIE-AuditRsp }}
PICH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}
FACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Single-Container {{ FACH-InformationItemIE-AuditRsp }}
FACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-FACH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory }
}
PRACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-InformationItemIE-AuditRsp }}
PRACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-PRACH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}
RACH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxRACHCell)) OF ProtocolIE-Single-Container {{ RACH-InformationItemIE-AuditRsp }}
RACH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-RACH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory }
}
AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ AICH-InformationItemIE-AuditRsp }}
AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-AICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}
PCPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxPCPCHCell)) OF ProtocolIE-Single-Container {{ PCPCH-InformationItemIE-AuditRsp }}
PCPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
```

```

{ ID id-PCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE optional }
}

CPCH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ CPCH-InformationItemIE-AuditRsp }}

CPCH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
{ ID id-CPCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE optional }
}

AP-AICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ AP-AICH-InformationItemIE-AuditRsp }}

AP-AICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
{ ID id-AP-AICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

EDCA-ICH-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ CDCA-ICH-InformationItemIE-AuditRsp }}

EDCA-ICH-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
{ ID id-CDCA-ICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

SCH-Information-AuditRsp ::= ProtocolIE-Single-Container {{ SCH-InformationIE-AuditRsp }}

SCH-InformationIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

CCP-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Single-Container {{ CCP-InformationItemIE-AuditRsp }}

CCP-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-CCP-InformationItem-AuditRsp CRITICALITY ignore TYPE CCP-InformationItem-AuditRsp PRESENCE mandatory }
}

CCP-InformationItem-AuditRsp ::= SEQUENCE {
  communicationControlPortID CommunicationControlPortID,
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  iE-Extensions ProtocolExtensionContainer {{ CCP-InformationItem-AuditRsp-ExtIEs }} OPTIONAL,
  ...
}

CCP-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

FPACH-LCR-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxFPACHCell)) OF ProtocolIE-Single-Container {{ FPACH-LCR-InformationItemIE-AuditRsp }}

FPACH-LCR-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-FPACH-LCR-Information-AuditRsp CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

HS-DSCH-Resources-Information-AuditRsp ::= SEQUENCE {
  resourceOperationalState ResourceOperationalState,

```



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```
availabilityStatus      AvailabilityStatus,
iE-Extensions           ProtocolExtensionContainer  {{ HS-DSCH-Resources-Information-AuditRsp-ExtIEs }}    OPTIONAL,
...
}

HS-DSCH-Resources-Information-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

S-CCPCH-InformationListExt-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCellinExt)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-AuditRsp
}}

S-CCPCH-LCR-InformationListExt-AuditRsp ::= SEQUENCE (SIZE (1..maxSCCPCHCellinExtLCR)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-
AuditRsp }}

E-DCH-Resources-Information-AuditRsp ::= SEQUENCE {
resourceOperationalState      ResourceOperationalState,
availabilityStatus            AvailabilityStatus,
iE-Extensions                 ProtocolExtensionContainer  {{ E-DCH-Resources-Information-AuditRsp-ExtIEs }}    OPTIONAL,
...
}

E-DCH-Resources-Information-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

Local-Cell-InformationList-AuditRsp ::=SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationItemIE-
AuditRsp }}

Local-Cell-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
{ ID id-Local-Cell-InformationItem-AuditRsp      CRITICALITY ignore   TYPE Local-Cell-InformationItem-AuditRsp    PRESENCE mandatory}
}

Local-Cell-InformationItem-AuditRsp ::= SEQUENCE {
local-Cell-ID                Local-Cell-ID,
dl-or-global-capacityCredit   DL-or-Global-CapacityCredit,
ul-capacityCredit             UL-CapacityCredit           OPTIONAL,
commonChannelsCapacityConsumptionLaw  CommonChannelsCapacityConsumptionLaw,
dedicatedChannelsCapacityConsumptionLaw  DedicatedChannelsCapacityConsumptionLaw,
maximumDL-PowerCapability      MaximumDL-PowerCapability    OPTIONAL,
minSpreadingFactor            MinSpreadingFactor          OPTIONAL,
minimumDL-PowerCapability      MinimumDL-PowerCapability    OPTIONAL,
local-Cell-Group-ID           Local-Cell-ID               OPTIONAL,
iE-Extensions                 ProtocolExtensionContainer  {{ Local-Cell-InformationItem-AuditRsp-ExtIEs}}    OPTIONAL,
...
}

Local-Cell-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
{ ID id-ReferenceClockAvailability      CRITICALITY ignore   EXTENSION ReferenceClockAvailability    PRESENCE optional }|
{ ID id-Power-Local-Cell-Group-ID      CRITICALITY ignore   EXTENSION Local-Cell-ID                PRESENCE optional }|
{ ID id-HSDPA-Capability                CRITICALITY ignore   EXTENSION HSDPA-Capability             PRESENCE optional }|
{ ID id-E-DCH-Capability                CRITICALITY ignore   EXTENSION E-DCH-Capability             PRESENCE optional },
...
}
```

```

}

Local-Cell-Group-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-
InformationItemIE-AuditRsp }}

Local-Cell-Group-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-Local-Cell-Group-InformationItem-AuditRsp CRITICALITY ignore TYPE Local-Cell-Group-InformationItem-AuditRsp PRESENCE mandatory}
}

Local-Cell-Group-InformationItem-AuditRsp ::= SEQUENCE {
  local-Cell-Group-ID Local-Cell-ID,
  dl-or-global-capacityCredit DL-or-Global-CapacityCredit,
  ul-capacityCredit UL-CapacityCredit OPTIONAL,
  commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw,
  dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw,
  iE-Extensions ProtocolExtensionContainer {{ Local-Cell-Group-InformationItem-AuditRsp-ExtIEs}} OPTIONAL,
  ...
}

Local-Cell-Group-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Power-Local-Cell-Group-InformationList-AuditRsp ::= SEQUENCE (SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Power-Local-Cell-
Group-InformationItemIE-AuditRsp }}

Power-Local-Cell-Group-InformationItemIE-AuditRsp NBAP-PROTOCOL-IES ::= {
  { ID id-Power-Local-Cell-Group-InformationItem-AuditRsp CRITICALITY ignore TYPE Power-Local-Cell-Group-InformationItem-
AuditRsp PRESENCE mandatory}
}

Power-Local-Cell-Group-InformationItem-AuditRsp ::= SEQUENCE {
  power-Local-Cell-Group-ID Local-Cell-ID,
  maximumDL-PowerCapability MaximumDL-PowerCapability,
  iE-Extensions ProtocolExtensionContainer {{ Power-Local-Cell-Group-InformationItem-AuditRsp-ExtIEs}} OPTIONAL,
  ...
}

Power-Local-Cell-Group-InformationItem-AuditRsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

-- *****
--
-- COMMON MEASUREMENT INITIATION REQUEST
--
-- *****

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

CommonMeasurementInitiationRequest-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-MeasurementID          CRITICALITY reject TYPE MeasurementID          PRESENCE mandatory }|
    { ID id-CommonMeasurementObjectType-CM-Rqst    CRITICALITY reject TYPE CommonMeasurementObjectType-CM-Rqst    PRESENCE mandatory }|
    { ID id-CommonMeasurementType    CRITICALITY reject TYPE CommonMeasurementType    PRESENCE mandatory }|
    { ID id-MeasurementFilterCoefficient    CRITICALITY reject TYPE MeasurementFilterCoefficient    PRESENCE optional }|
    { ID id-ReportCharacteristics    CRITICALITY reject TYPE ReportCharacteristics    PRESENCE mandatory }|
    { ID id-SFNReportingIndicator    CRITICALITY reject TYPE FNReportingIndicator    PRESENCE mandatory }|
    { ID id-SFN                      CRITICALITY reject TYPE SFN                      PRESENCE optional },
    ...
}

CommonMeasurementInitiationRequest-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-CommonMeasurementAccuracy          CRITICALITY reject          EXTENSION CommonMeasurementAccuracy          PRESENCE
optional}|
    { ID id-MeasurementRecoveryBehavior    CRITICALITY ignore          EXTENSION MeasurementRecoveryBehavior    PRESENCE optional
},
    ...
}

CommonMeasurementObjectType-CM-Rqst ::= CHOICE {
    cell          Cell-CM-Rqst,
    rACH          RACH-CM-Rqst,
    notUsed-cPCH NULLcPCH-CM-Rqst,
    ...,
    extension-CommonMeasurementObjectType-CM-Rqst      Extension-CommonMeasurementObjectType-CM-Rqst
}

Extension-CommonMeasurementObjectType-CM-Rqst ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementObjectType-CM-RqstIE }}

Extension-CommonMeasurementObjectType-CM-RqstIE NBAP-PROTOCOL-IES ::= {
    { ID id-Power-Local-Cell-Group-choice-CM-Rqst    CRITICALITY reject TYPE PowerLocalCellGroup-CM-Rqst    PRESENCE mandatory }
}

Cell-CM-Rqst ::= SEQUENCE {
    c-ID          C-ID,
    timeSlot      TimeSlot    OPTIONAL, -- Applicable to 3.84Mcps TDD only
    iE-Extensions ProtocolExtensionContainer {{ CellItem-CM-Rqst-ExtIEs }}    OPTIONAL,
    ...
}

CellItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

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```

{ ID id-TimeSlotLCR-CM-Rqst          CRITICALITY reject  EXTENSION TimeSlotLCR          PRESENCE optional }|
-- Applicable to 1.28Mcps TDD only
{ ID id-NeighbouringCellMeasurementInformation  CRITICALITY ignore  EXTENSION NeighbouringCellMeasurementInformation  PRESENCE optional },
...
}

```

```

RACH-CM-Rqst ::= SEQUENCE {
  c-ID                C-ID,
  commonTransportChannelID  CommonTransportChannelID,
  iE-Extensions       ProtocolExtensionContainer { { RACHItem-CM-Rqst-ExtIEs } }          OPTIONAL,
  ...
}

```

```

RACHItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```


EPCH-CM-Rqst ::= SEQUENCE {
  c-ID                C-ID,
  commonTransportChannelID  CommonTransportChannelID,
  spreadingfactor     MinUL_ChannelisationCodeLength  OPTIONAL,
  iE-Extensions       ProtocolExtensionContainer { { CPCHItem-CM-Rqst-ExtIEs } }          OPTIONAL,
  ...
}


```

```


EPCHItem-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}


```

```

PowerLocalCellGroup-CM-Rqst ::= SEQUENCE {
  powerLocalCellGroupID  Local-Cell-ID,
  iE-Extensions          ProtocolExtensionContainer {{ PowerLocalCellGroup-CM-Rqst-ExtIEs }}          OPTIONAL,
  ...
}

```

```

PowerLocalCellGroup-CM-Rqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```

```

-- *****
--
-- COMMON MEASUREMENT INITIATION RESPONSE
--
-- *****

```

```

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

```

```

CommonMeasurementInitiationResponse-IEs NBAP-PROTOCOL-IES ::= {
  { ID id-MeasurementID          CRITICALITY ignore  TYPE MeasurementID          PRESENCE mandatory }|
  { ID id-CommonMeasurementObjectType-CM-Rsp  CRITICALITY ignore  TYPE CommonMeasurementObjectType-CM-Rsp  PRESENCE optional }|
}

```

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```

{ ID id-SFN CRITICALITY ignore TYPE SFN PRESENCE optional }|
{ ID id-CriticalityDiagnostics CRITICALITY ignore TYPE CriticalityDiagnostics PRESENCE optional },
...
}

CommonMeasurementInitiationResponse-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  {ID id-CommonMeasurementAccuracy CRITICALITY ignore EXTENSION CommonMeasurementAccuracy PRESENCE optional}|
  { ID id-MeasurementRecoverySupportIndicator CRITICALITY ignore EXTENSION MeasurementRecoverySupportIndicator PRESENCE optional
  },
  ...
}

CommonMeasurementObjectType-CM-Rsp ::= CHOICE {
  cell Cell-CM-Rsp,
  rACH RACH-CM-Rsp,
  notUsed-cPCH NULLCPCH-CM-Rsp,
  ...
  extension-CommonMeasurementObjectType-CM-Rsp Extension-CommonMeasurementObjectType-CM-Rsp
}

Extension-CommonMeasurementObjectType-CM-Rsp ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementObjectType-CM-RspIE }}

Extension-CommonMeasurementObjectType-CM-RspIE NBAP-PROTOCOL-IES ::= {
  { ID id-Power-Local-Cell-Group-choice-CM-Rsp CRITICALITY ignore TYPE PowerLocalCellGroup-CM-Rsp PRESENCE mandatory }
}

Cell-CM-Rsp ::= SEQUENCE {
  commonMeasurementValue CommonMeasurementValue,
  iE-Extensions ProtocolExtensionContainer { { CellItem-CM-Rsp-ExtIEs } } OPTIONAL,
  ...
}

CellItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RACH-CM-Rsp ::= SEQUENCE {
  commonMeasurementValue CommonMeasurementValue,
  iE-Extensions ProtocolExtensionContainer { { RACHItem-CM-Rsp-ExtIEs } } OPTIONAL,
  ...
}

RACHItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CPCH-CM-Rsp ::= SEQUENCE {
  commonMeasurementValue CommonMeasurementValue,
  iE-Extensions ProtocolExtensionContainer { { CPCHItem-CM-Rsp-ExtIEs } } OPTIONAL,
  ...
}

CPCHItem-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

}
}

PowerLocalCellGroup-CM-Rsp ::= SEQUENCE {
    commonMeasurementValue      CommonMeasurementValue,
    iE-Extensions                ProtocolExtensionContainer {{ PowerLocalCellGroup-CM-Rsp-ExtIEs}}
    ...
}

PowerLocalCellGroup-CM-Rsp-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- COMMON MEASUREMENT INITIATION FAILURE
--
-- *****

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

CommonMeasurementInitiationFailure-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-MeasurementID      CRITICALITY ignore      TYPE MeasurementID      PRESENCE mandatory }|
    { ID id-Cause              CRITICALITY ignore      TYPE Cause              PRESENCE mandatory }|
    { ID id-CriticalityDiagnostics CRITICALITY ignore      TYPE CriticalityDiagnostics PRESENCE optional },
    ...
}

CommonMeasurementInitiationFailure-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

-- *****
--
-- COMMON MEASUREMENT REPORT
--
-- *****

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

CommonMeasurementReport-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-MeasurementID      CRITICALITY ignore      TYPE MeasurementID      PRESENCE mandatory }|
    { ID id-CommonMeasurementObjectType-CM-Rprt CRITICALITY ignore      TYPE CommonMeasurementObjectType-CM-Rprt PRESENCE mandatory }|
    { ID id-SFN                CRITICALITY ignore      TYPE SFN                PRESENCE optional },
    ...
}

```

```

}

CommonMeasurementReport-Extensions NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-MeasurementRecoveryReportingIndicator CRITICALITY ignore EXTENSION MeasurementRecoveryReportingIndicator PRESENCE
optional },
  ...
}

CommonMeasurementObjectType-CM-Rprt ::= CHOICE {
  cell Cell-CM-Rprt,
  rACH RACH-CM-Rprt,
  notUsed-cPCH NULLCPCH-CM-Rprt,
  ...,
  extension-CommonMeasurementObjectType-CM-Rprt Extension-CommonMeasurementObjectType-CM-Rprt
}

Extension-CommonMeasurementObjectType-CM-Rprt ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementObjectType-CM-RprtIE }}

Extension-CommonMeasurementObjectType-CM-RprtIE NBAP-PROTOCOL-IES ::= {
  { ID id-Power-Local-Cell-Group-choice-CM-Rprt CRITICALITY ignore TYPE PowerLocalCellGroup-CM-Rprt PRESENCE mandatory }
}

Cell-CM-Rprt ::= SEQUENCE {
  commonMeasurementValueInformation CommonMeasurementValueInformation,
  iE-Extensions ProtocolExtensionContainer {{ CellItem-CM-Rprt-ExtIEs }} OPTIONAL,
  ...
}

CellItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

RACH-CM-Rprt ::= SEQUENCE {
  commonMeasurementValueInformation CommonMeasurementValueInformation,
  iE-Extensions ProtocolExtensionContainer {{ RACHItem-CM-Rprt-ExtIEs }} OPTIONAL,
  ...
}

RACHItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CPCH-CM-Rprt ::= SEQUENCE {
  commonMeasurementValueInformation CommonMeasurementValueInformation,
  iE-Extensions ProtocolExtensionContainer {{ CPCHItem-CM-Rprt-ExtIEs }} OPTIONAL,
  ...
}

CPCHItem-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}


```

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```
PowerLocalCellGroup-CM-Rprt ::= SEQUENCE {
    commonMeasurementValueInformation CommonMeasurementValueInformation,
    iE-Extensions                     ProtocolExtensionContainer {{ PowerLocalCellGroup-CM-Rprt-ExtIEs}} OPTIONAL,
    ...
}

PowerLocalCellGroup-CM-Rprt-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}
```



```
-- *****
--
-- RESOURCE STATUS INDICATION
--
-- *****
```

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

ResourceStatusIndication-IEs NBAP-PROTOCOL-IES ::= {
    { ID id-IndicationType-ResourceStatusInd   CRITICALITY ignore   TYPE IndicationType-ResourceStatusInd   PRESENCE mandatory }|
    { ID id-Cause                               CRITICALITY ignore   TYPE Cause                               PRESENCE optional },
    ...
}

ResourceStatusIndication-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

IndicationType-ResourceStatusInd ::= CHOICE {
    no-Failure                No-Failure-ResourceStatusInd,
    serviceImpacting          ServiceImpacting-ResourceStatusInd,
    ...
}

No-Failure-ResourceStatusInd ::= SEQUENCE {
    local-Cell-InformationList   Local-Cell-InformationList-ResourceStatusInd,
    local-Cell-Group-InformationList Local-Cell-Group-InformationList-ResourceStatusInd OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { { No-FailureItem-ResourceStatusInd-ExtIEs} } OPTIONAL,
    ...
}

No-FailureItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Power-Local-Cell-Group-InformationList-ResourceStatusInd   CRITICALITY ignore   EXTENSION Power-Local-
Cell-Group-InformationList-ResourceStatusInd   PRESENCE optional },
    ...
}

Local-Cell-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-
InformationItemIE-ResourceStatusInd }}

Local-Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-InformationItem-ResourceStatusInd   CRITICALITY ignore   TYPE Local-Cell-InformationItem-ResourceStatusInd   PRESENCE
mandatory }
}

Local-Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
    local-CellID                Local-Cell-ID,
    addorDeleteIndicator        AddorDeleteIndicator,
    dl-or-global-capacityCredit DL-or-Global-CapacityCredit
    ...
}
OPTIONAL,
```

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```
-- This IE shall be present if AddorDeleteIndicator IE is set to "add"
ul-capacityCredit          UL-CapacityCredit          OPTIONAL,
commonChannelsCapacityConsumptionLaw  CommonChannelsCapacityConsumptionLaw  OPTIONAL,
-- This IE shall be present if AddorDeleteIndicator IE is set to "add"
dedicatedChannelsCapacityConsumptionLaw  DedicatedChannelsCapacityConsumptionLaw  OPTIONAL,
-- This IE shall be present if AddorDeleteIndicator IE is set to "add"
maximumDL-PowerCapability  MaximumDL-PowerCapability  OPTIONAL,
-- This IE shall be present if AddorDeleteIndicator IE is set to "add"
minSpreadingFactor        MinSpreadingFactor        OPTIONAL,
-- This IE shall be present if AddorDeleteIndicator IE is set to "add"
minimumDL-PowerCapability  MinimumDL-PowerCapability  OPTIONAL,
-- This IE shall be present if AddorDeleteIndicator IE is set to "add"
local-Cell-Group-ID       Local-Cell-ID       OPTIONAL,
iE-Extensions             ProtocolExtensionContainer { { Local-Cell-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
...
}

Local-Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  { ID id-ReferenceClockAvailability  CRITICALITY ignore  EXTENSION ReferenceClockAvailability  PRESENCE optional } |
  -- This IE shall be present if AddorDeleteIndicator IE is set to "add" and the Local Cell is related to a TDD cell
  { ID id-Power-Local-Cell-Group-ID    CRITICALITY ignore  EXTENSION Local-Cell-ID    PRESENCE optional } |
  { ID id-HSDPA-Capability             CRITICALITY ignore  EXTENSION HSDPA-Capability  PRESENCE optional } |
  { ID id-E-DCH-Capability             CRITICALITY ignore  EXTENSION E-DCH-Capability  PRESENCE optional },
  ...
}

Local-Cell-Group-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-InformationItemIE-ResourceStatusInd }}

Local-Cell-Group-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-Local-Cell-Group-InformationItem-ResourceStatusInd  CRITICALITY ignore TYPE Local-Cell-Group-InformationItem-ResourceStatusInd
  PRESENCE mandatory }
}

Local-Cell-Group-InformationItem-ResourceStatusInd ::= SEQUENCE {
  local-Cell-Group-ID          Local-Cell-ID,
  dl-or-global-capacityCredit  DL-or-Global-CapacityCredit,
  ul-capacityCredit            UL-CapacityCredit          OPTIONAL,
  commonChannelsCapacityConsumptionLaw  CommonChannelsCapacityConsumptionLaw,
  dedicatedChannelsCapacityConsumptionLaw  DedicatedChannelsCapacityConsumptionLaw,
  iE-Extensions               ProtocolExtensionContainer { { Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
  ...
}

Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Power-Local-Cell-Group-InformationList-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Power-Local-Cell-Group-InformationItemIE-ResourceStatusInd }}

Power-Local-Cell-Group-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
```

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```
{ ID id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE Power-Local-Cell-Group-InformationItem-ResourceStatusInd PRESENCE mandatory }
}

Power-Local-Cell-Group-InformationItem-ResourceStatusInd ::= SEQUENCE {
    power-Local-Cell-Group-ID Local-Cell-ID,
    maximumDL-PowerCapability MaximumDL-PowerCapability,
    iE-Extensions ProtocolExtensionContainer { { Power-Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs } }
    OPTIONAL,
    ...
}

Power-Local-Cell-Group-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ServiceImpacting-ResourceStatusInd ::= SEQUENCE {
    local-Cell-InformationList Local-Cell-InformationList2-ResourceStatusInd OPTIONAL,
    local-Cell-Group-InformationList Local-Cell-Group-InformationList2-ResourceStatusInd OPTIONAL,
    cCP-InformationList CCP-InformationList-ResourceStatusInd OPTIONAL,
    cell-InformationList Cell-InformationList-ResourceStatusInd OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { ServiceImpactingItem-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

ServiceImpactingItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd CRITICALITY ignore EXTENSION Power-Local-Cell-Group-InformationList2-ResourceStatusInd PRESENCE optional },
    ...
}

Local-Cell-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-InformationItemIE2-ResourceStatusInd }}

Local-Cell-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Local-Cell-InformationItem2-ResourceStatusInd CRITICALITY ignore TYPE Local-Cell-InformationItem2-ResourceStatusInd PRESENCE mandatory }
}

Local-Cell-InformationItem2-ResourceStatusInd ::= SEQUENCE {
    local-Cell-ID Local-Cell-ID,
    dl-or-global-capacityCredit DL-or-Global-CapacityCredit OPTIONAL,
    ul-capacityCredit UL-CapacityCredit OPTIONAL,
    commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw OPTIONAL,
    dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw OPTIONAL,
    maximum-DL-PowerCapability MaximumDL-PowerCapability OPTIONAL,
    minSpreadingFactor MinSpreadingFactor OPTIONAL,
    minimumDL-PowerCapability MinimumDL-PowerCapability OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { { Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs } } OPTIONAL,
    ...
}

Local-Cell-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
```

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```
{ ID id-ReferenceClockAvailability CRITICALITY ignore EXTENSION ReferenceClockAvailability PRESENCE optional }|
{ ID id-HSDPA-Capability CRITICALITY ignore EXTENSION HSDPA-Capability PRESENCE optional }|
{ ID id-E-DCH-Capability CRITICALITY ignore EXTENSION E-DCH-Capability PRESENCE optional },
...
}

Local-Cell-Group-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Local-Cell-Group-
InformationItemIE2-ResourceStatusInd }}

Local-Cell-Group-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-Local-Cell-Group-InformationItem2-ResourceStatusInd CRITICALITY ignore TYPE Local-Cell-Group-InformationItem2-ResourceStatusInd
  PRESENCE mandatory }
}

Local-Cell-Group-InformationItem2-ResourceStatusInd ::= SEQUENCE {
  local-Cell-Group-ID Local-Cell-ID,
  dl-or-global-capacityCredit DL-or-Global-CapacityCredit OPTIONAL,
  ul-capacityCredit UL-CapacityCredit OPTIONAL,
  commonChannelsCapacityConsumptionLaw CommonChannelsCapacityConsumptionLaw OPTIONAL,
  dedicatedChannelsCapacityConsumptionLaw DedicatedChannelsCapacityConsumptionLaw OPTIONAL,
  iE-Extensions ProtocolExtensionContainer { { Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs } } OPTIONAL,
  ...
}

Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Power-Local-Cell-Group-InformationList2-ResourceStatusInd ::= SEQUENCE(SIZE (1..maxLocalCellinNodeB)) OF ProtocolIE-Single-Container {{ Power-Local-
Cell-Group-InformationItemIE2-ResourceStatusInd }}

Power-Local-Cell-Group-InformationItemIE2-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd CRITICALITY ignore TYPE Power-Local-Cell-Group-InformationItem2-
ResourceStatusInd PRESENCE mandatory }
}

Power-Local-Cell-Group-InformationItem2-ResourceStatusInd ::= SEQUENCE {
  power-Local-Cell-Group-ID Local-Cell-ID,
  maximumDL-PowerCapability MaximumDL-PowerCapability,
  iE-Extensions ProtocolExtensionContainer { { Power-Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs } }
  OPTIONAL,
  ...
}

Power-Local-Cell-Group-InformationItem2-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CCP-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCCPinNodeB)) OF ProtocolIE-Single-Container {{ CCP-InformationItemIE-
ResourceStatusInd }}

CCP-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-CCP-InformationItem-ResourceStatusInd CRITICALITY ignore TYPE CCP-InformationItem-ResourceStatusInd PRESENCE mandatory }
}
```

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```
}

CCP-InformationItem-ResourceStatusInd ::= SEQUENCE {
    communicationControlPortID      CommunicationControlPortID,
    resourceOperationalState        ResourceOperationalState,
    availabilityStatus               AvailabilityStatus,
    iE-Extensions                    ProtocolExtensionContainer { { CCP-InformationItem-ResourceStatusInd-ExtIEs} }    OPTIONAL,
    ...
}

CCP-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Cell-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCellinNodeB)) OF ProtocolIE-Single-Container {{ Cell-InformationItemIE-ResourceStatusInd }}

Cell-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
    { ID id-Cell-InformationItem-ResourceStatusInd    CRITICALITY ignore TYPE Cell-InformationItem-ResourceStatusInd    PRESENCE mandatory }
}

Cell-InformationItem-ResourceStatusInd ::= SEQUENCE {
    c-ID                                C-ID,
    resourceOperationalState            ResourceOperationalState                OPTIONAL,
    availabilityStatus                  AvailabilityStatus                OPTIONAL,
    primary-SCH-Information              P-SCH-Information-ResourceStatusInd    OPTIONAL, -- FDD only
    secondary-SCH-Information            S-SCH-Information-ResourceStatusInd    OPTIONAL, -- FDD only
    primary-CPICH-Information            P-CPICH-Information-ResourceStatusInd  OPTIONAL, -- FDD only
    secondary-CPICH-Information           S-CPICH-InformationList-ResourceStatusInd  OPTIONAL, -- FDD only
    primary-CCPCH-Information             P-CCPCH-Information-ResourceStatusInd  OPTIONAL,
    bCH-Information                      BCH-Information-ResourceStatusInd      OPTIONAL,
    secondary-CCPCH-InformationList       S-CCPCH-InformationList-ResourceStatusInd  OPTIONAL,
    pCH-Information                      PCH-Information-ResourceStatusInd      OPTIONAL,
    pICH-Information                      PICH-Information-ResourceStatusInd     OPTIONAL,
    fACH-InformationList                  FACH-InformationList-ResourceStatusInd  OPTIONAL,
    pRACH-InformationList                 PRACH-InformationList-ResourceStatusInd  OPTIONAL,
    rACH-InformationList                  RACH-InformationList-ResourceStatusInd  OPTIONAL,
    aICH-InformationList                  AICH-InformationList-ResourceStatusInd  OPTIONAL, -- FDD only
    notUsed-1-pCPCH-InformationList    NULLPCPCH-InformationList-ResourceStatusInd    OPTIONAL, ---FDD-only
    notUsed-2-cPCH-InformationList    NULLCPCH-InformationList-ResourceStatusInd    OPTIONAL, ---FDD-only
    notUsed-3-aP-AICH-InformationList    NULLAP-AICH-InformationList-ResourceStatusInd    OPTIONAL, ---FDD-only
    notUsed-4-cDCA-ICH-InformationList    NULLCDCA-ICH-InformationList-ResourceStatusInd    OPTIONAL, ---FDD-only
    sCH-Information                      SCH-Information-ResourceStatusInd      OPTIONAL, -- Applicable to 3.84Mcps TDD only
    iE-Extensions                        ProtocolExtensionContainer { { Cell-InformationItem-ResourceStatusInd-ExtIEs} }    OPTIONAL,
    ...
}

Cell-InformationItem-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-FPACH-LCR-InformationList-ResourceStatusInd    CRITICALITY ignore    EXTENSION FPACH-LCR-InformationList-ResourceStatusInd
    PRESENCE optional }|    -- Applicable to 1.28Mcps TDD only
    { ID id-DwPCH-LCR-InformationList-ResourceStatusInd    CRITICALITY ignore    EXTENSION DwPCH-LCR-InformationList-ResourceStatusInd
    PRESENCE optional }|    -- Applicable to 1.28Mcps TDD only
}
```

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```
{ ID id-HSDSCH-Resources-Information-ResourceStatusInd CRITICALITY ignore EXTENSION HS-DSCH-Resources-Information-ResourceStatusInd
PRESENCE optional }|
{ ID id-MICH-Information-ResourceStatusInd CRITICALITY ignore EXTENSION Common-PhysicalChannel-Status-Information
PRESENCE optional }|
{ ID id-S-CCPCH-InformationListExt-ResourceStatusInd CRITICALITY ignore EXTENSION S-CCPCH-InformationListExt-ResourceStatusInd
PRESENCE optional }|
-- Applicable to 3.84Mcps TDD only, used when there are more than maxSCCPCHCell SCCPCHs in the message.
{ ID id-S-CCPCH-LCR-InformationListExt-ResourceStatusInd CRITICALITY ignore EXTENSION S-CCPCH-LCR-InformationListExt-ResourceStatusInd
PRESENCE optional }|
-- Applicable to 1.28Mcps TDD only, used when there are more than maxSCCPCHCell SCCPCHs in the message.
{ ID id-E-DCH-Resources-Information-ResourceStatusInd CRITICALITY ignore EXTENSION E-DCH-Resources-Information-ResourceStatusInd
PRESENCE optional },
...
}

P-SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-SCH-InformationIE-ResourceStatusInd }}

P-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-P-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

S-SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ S-SCH-InformationIE-ResourceStatusInd }}

S-SCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-S-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

P-CPICH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-CPICH-InformationIE-ResourceStatusInd }}

P-CPICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-P-CPICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

S-CPICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCPICHCell)) OF ProtocolIE-Single-Container {{ S-CPICH-InformationItemIE-
ResourceStatusInd }}

S-CPICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-S-CPICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

P-CCPCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ P-CCPCH-InformationIE-ResourceStatusInd }}

P-CCPCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-P-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

BCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ BCH-InformationIE-ResourceStatusInd }}

BCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {
  { ID id-BCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory }
}
```

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```
S-CCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCell)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-ResourceStatusInd }}
```

```
S-CCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {  
  { ID id-S-CCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }  
}
```

```
PCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ PCH-InformationIE-ResourceStatusInd }}
```

```
PCH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {  
  { ID id-PCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory }  
}
```

```
PICH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ PICH-InformationIE-ResourceStatusInd }}
```

```
PICH-InformationIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {  
  { ID id-PICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }  
}
```

```
FACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFACHCell)) OF ProtocolIE-Single-Container {{ FACH-InformationItemIE-ResourceStatusInd }}
```

```
FACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {  
  { ID id-FACH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory }  
}
```

```
PRACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ PRACH-InformationItemIE-ResourceStatusInd }}
```

```
PRACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {  
  { ID id-PRACH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }  
}
```

```
RACH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ RACH-InformationItemIE-ResourceStatusInd }}
```

```
RACH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {  
  { ID id-RACH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE mandatory }  
}
```

```
AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPRACHCell)) OF ProtocolIE-Single-Container {{ AICH-InformationItemIE-ResourceStatusInd }}
```

```
AICH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {  
  { ID id-AICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }  
}
```

```
PCPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxPCPCHCell)) OF ProtocolIE-Single-Container {{ PCPCH-InformationItemIE-ResourceStatusInd }}
```

```
PCPCH-InformationItemIE-ResourceStatusInd NBAP-PROTOCOL-IES ::= {  
  { ID id-PCPCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE optional }  
}
```

```

CPCH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ CPCH-InformationItemIE-ResourceStatusInd }}

CPCH-InformationItemIE-ResourceStatusInd-NBAP-PROTOCOL-IES ::= {
  { ID id-CPCH-Information CRITICALITY ignore TYPE Common-TransportChannel-Status-Information PRESENCE optional }
}

AP-AICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ AP-AICH-InformationItemIE-ResourceStatusInd }}

AP-AICH-InformationItemIE-ResourceStatusInd-NBAP-PROTOCOL-IES ::= {
  { ID id-AP-AICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE optional }
}

CDCA-ICH-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxCPCHCell)) OF ProtocolIE-Single-Container {{ CDCA-ICH-InformationItemIE-ResourceStatusInd }}

CDCA-ICH-InformationItemIE-ResourceStatusInd-NBAP-PROTOCOL-IES ::= {
  { ID id-CDCA-ICH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE optional }
}

SCH-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ SCH-InformationIE-ResourceStatusInd }}

SCH-InformationIE-ResourceStatusInd-NBAP-PROTOCOL-IES ::= {
  { ID id-SCH-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

FPACH-LCR-InformationList-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxFPACHCell)) OF ProtocolIE-Single-Container {{ FPACH-LCR-InformationItemIE-ResourceStatusInd }}

FPACH-LCR-InformationItemIE-ResourceStatusInd-NBAP-PROTOCOL-IES ::= {
  { ID id-FPACH-LCR-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

DWPCH-LCR-Information-ResourceStatusInd ::= ProtocolIE-Single-Container {{ DWPCH-LCR-InformationIE-ResourceStatusInd }}

DWPCH-LCR-InformationIE-ResourceStatusInd-NBAP-PROTOCOL-IES ::= {
  { ID id-DWPCH-LCR-Information CRITICALITY ignore TYPE Common-PhysicalChannel-Status-Information PRESENCE mandatory }
}

HS-DSCH-Resources-Information-ResourceStatusInd ::= SEQUENCE {
  resourceOperationalState ResourceOperationalState,
  availabilityStatus AvailabilityStatus,
  iE-Extensions ProtocolExtensionContainer {{ HS-DSCH-Resources-Information-ResourceStatusInd-ExtIEs }} OPTIONAL,
  ...
}

HS-DSCH-Resources-Information-ResourceStatusInd-ExtIEs-NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

```



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```
S-CCPCH-InformationListExt-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCellinExt)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-ResourceStatusInd }}
```

```
S-CCPCH-LCR-InformationListExt-ResourceStatusInd ::= SEQUENCE (SIZE (1..maxSCCPCHCellinExtLCR)) OF ProtocolIE-Single-Container {{ S-CCPCH-InformationItemIE-ResourceStatusInd }}
```

```
E-DCH-Resources-Information-ResourceStatusInd ::= SEQUENCE {  
    resourceOperationalState      ResourceOperationalState,  
    availabilityStatus            AvailabilityStatus,  
    iE-Extensions                ProtocolExtensionContainer {{ E-DCH-Resources-Information-ResourceStatusInd-ExtIEs }} OPTIONAL,  
    ...  
}
```

```
E-DCH-Resources-Information-ResourceStatusInd-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
    ...  
}
```

### 9.3.4 Information Elements Definitions

```

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

NBAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=
BEGIN

IMPORTS
    maxNrOfRLs,
    maxNrOfTFCs,
    maxNrOfErrors,
    maxCTFC,
    maxNrOfTfFs,
    maxTTI-count,
    maxRateMatching,
    maxCodeNrComp-1,
    maxHS-PDSCHCodeNrComp-1,
    maxHS-SCCHCodeNrComp-1,
    maxNrOfCellSyncBursts,
    maxNrOfCodeGroups,
    maxNrOfMeasNCell,
    maxNrOfMeasNCell-1,
    maxNrOfReceiptsPerSyncFrame,
    maxNrOfTFCIGroups,
    maxNrOfTFCI1Combs,
    maxNrOfTFCI2Combs,
    maxNrOfTFCI2Combs-1,
    maxNrOfSF,
    maxTGPS,
    maxNrOfUSCHs,
    maxNrOfULTSs,
    maxNrOfULTSLCRs,
    maxNrOfDPCHs,
    maxNrOfDPCHLCRs,
    maxNrOfCodes,
    maxNrOfDSCHs,
    maxNrOfDLTSs,
    maxNrOfDLTSLCRs,
    maxNrOfDCHs,
    maxNrOfLevels,
    maxNoGPSItems,
    maxNoSat,

```

maxNrOfCellPortionsPerCell,  
maxNrOfCellPortionsPerCell-1,  
maxNrOfHSSCCHs,  
maxNrOfHSSCCHCodes,  
maxNrOfMACdFlows,  
maxNrOfMACdFlows-1,  
maxNrOfMACdPDUIndexes,  
maxNrOfMACdPDUIndexes-1,  
maxNrOfNIs,  
maxNrOfPriorityQueues,  
maxNrOfPriorityQueues-1,  
maxNrOfHARQProcesses,  
maxNrOfSyncDLCodesLCR,  
maxNrOfSyncFramesLCR,  
maxNrOfContextsOnUeList,  
maxNrOfPriorityClasses,  
maxNrOfSatAlmanac-maxNoSat,  
maxE-AGCH-CodeNrComp-1,  
maxE-RGCH-E-HICH-CodeNrComp-1,  
maxNrOfDDIs,  
maxNrOfE-AGCHs,  
maxNrOfEDCHMACdFlows,  
maxNrOfEDCHMACdFlows-1,  
maxNrOfE-RGCHs-E-HICHs,  
maxNrOfSigSeqRGHI-1,

id-MessageStructure,  
id-ReportCharacteristicsType-OnModification,  
id-Rx-Timing-Deviation-Value-LCR,  
id-SFNsFNMeasurementValueInformation,  
id-SFNsFNMeasurementThresholdInformation,  
id-TUTRANGPSMeasurementValueInformation,  
id-TUTRANGPSMeasurementThresholdInformation,  
id-TypeOfError,  
id-transportlayeraddress,  
id-bindingID,  
id-Angle-Of-Arrival-Value-LCR,  
id-SyncDLCodeIdThreInfoLCR,  
id-neighbouringTDDCellMeasurementInformationLCR,  
id-HS-SICH-Reception-Quality,  
id-HS-SICH-Reception-Quality-Measurement-Value,  
id-Initial-DL-Power-TimeslotLCR-InformationItem,  
id-Maximum-DL-Power-TimeslotLCR-InformationItem,  
id-Minimum-DL-Power-TimeslotLCR-InformationItem,  
id-Received-total-wide-band-power-For-CellPortion,  
id-Received-total-wide-band-power-For-CellPortion-Value,  
id-Transmitted-Carrier-Power-For-CellPortion,  
id-Transmitted-Carrier-Power-For-CellPortion-Value,  
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission,  
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionCellPortion,  
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionCellPortionValue,  
id-HS-DSCHRequiredPowerValueInformation,

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```
id-HS-DSCHProvidedBitRateValueInformation,
id-HS-DSCHRequiredPowerValue,
id-HS-DSCHRequiredPowerValue-For-Cell-Portion,
id-HS-DSCHRequiredPowerValueInformation-For-CellPortion,
id-HS-DSCHProvidedBitRateValueInformation-For-CellPortion,
id-Best-Cell-Portions-Value,
id-Unidirectional-DCH-Indicator,
id-SAT-Info-Almanac-ExtItem,
id-TnIQos,
id-UpPTSInterferenceValue,
id-HARQ-Preamble-Mode,
id-DLTransmissionBranchLoadValue
FROM NBAP-Constants

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

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

-- =====
-- A
-- =====

AckNack-RepetitionFactor ::= INTEGER (1..4,...)
-- Step: 1

Ack-Power-Offset ::= INTEGER (0..8,...)
-- According to mapping in ref. [9] subclause 4.2.1

Acknowledged-PCPCH-access-preambles ::= INTEGER (0..15,...)
-- According to mapping in [22].

Acknowledged-PRACH-preambles-Value ::= INTEGER(0..240,...)
-- According to mapping in [22].

AddorDeleteIndicator ::= ENUMERATED {
    add,
    delete
}

Active-Pattern-Sequence-Information ::= SEQUENCE {
    cmConfigurationChangeCFN          CFN,
    transmission-Gap-Pattern-Sequence-Status  Transmission-Gap-Pattern-Sequence-Status-List  OPTIONAL,
    iE-Extensions                      ProtocolExtensionContainer { {Active-Pattern-Sequence-Information-ExtIEs} } OPTIONAL,
```

```

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

Transmission-Gap-Pattern-Sequence-Status-List-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
...
AICH-Power ::= INTEGER (-22..5)
-- Offset in dB.

AICH-TransmissionTiming ::= ENUMERATED {
    v0,
    v1
}

AllocationRetentionPriority ::= SEQUENCE {
    priorityLevel          PriorityLevel,
    pre-emptionCapability  Pre-emptionCapability,
    pre-emptionVulnerability Pre-emptionVulnerability,
    iE-Extensions          ProtocolExtensionContainer { {AllocationRetentionPriority-ExtIEs} } OPTIONAL,
    ...
}

AllocationRetentionPriority-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
}
...
Angle-Of-Arrival-Value-LCR ::= SEQUENCE {
    aOA-LCR          AOA-LCR,
    aOA-LCR-Accuracy-Class AOA-LCR-Accuracy-Class,
    iE-Extensions    ProtocolExtensionContainer { {Angle-Of-Arrival-Value-LCR-ExtIEs} } OPTIONAL,
    ...
}

Angle-Of-Arrival-Value-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {

```

```

}
...
}
AOA-LCR ::= INTEGER (0..719)
-- Angle Of Arrival for 1.28Mcps TDD

AOA-LCR-Accuracy-Class ::= ENUMERATED {a,b,c,d,e,f,g,h,...}

APPreambleSignature ::= INTEGER (0..15)
APSubChannelNumber ::= INTEGER (0..11)

AvailabilityStatus ::= ENUMERATED {
    empty,
    in-test,
    failed,
    power-off,
    off-line,
    off-duty,
    dependency,
    degraded,
    not-installed,
    log-full,
    ...
}

-- =====
-- B
-- =====

BCCH-ModificationTime ::= INTEGER (0..511)
-- Time = BCCH-ModificationTime * 8
-- Range 0 to 4088, step 8
-- All SFN values in which MIB may be mapped are allowed

Best-Cell-Portions-Value ::= SEQUENCE (SIZE (1..maxNrOfCellPortionsPerCell)) OF Best-Cell-Portions-Item

Best-Cell-Portions-Item ::= SEQUENCE {
    cellPortionID          CellPortionID,
    sIRValue               SIR-Value,
    iE-Extensions         ProtocolExtensionContainer { { Best-Cell-Portions-Item-ExtIEs } } OPTIONAL,
    ...
}

Best-Cell-Portions-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

BindingID ::= OCTET STRING (SIZE (1..4, ...))
-- If the Binding ID includes a UDP port, the UDP port is included in octet 1 and 2. The first octet of
-- the UDP port field is included in the first octet of the Binding ID.

BetaCD ::= INTEGER (0..15)

```

```
BlockingPriorityIndicator ::= ENUMERATED {
    high,
    normal,
    low,
    ...
}
-- High priority: Block resource immediately.
-- Normal priority: Block resource when idle or upon timer expiry.
-- Low priority: Block resource when idle.

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

-- =====
-- C
-- =====

Cause ::= CHOICE {
    radioNetwork          CauseRadioNetwork,
    transport             CauseTransport,
    protocol              CauseProtocol,
    misc                  CauseMisc,
    ...
}

CauseMisc ::= ENUMERATED {
    control-processing-overload,
    hardware-failure,
    oam-intervention,
    not-enough-user-plane-processing-resources,
    unspecified,
    ...
}

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

CauseRadioNetwork ::= ENUMERATED {
    unknown-C-ID,
    cell-not-available,
    power-level-not-supported,
    dl-radio-resources-not-available,
```

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```
ul-radio-resources-not-available,  
rl-already-ActivatedOrAllocated,  
nodeB-Resources-unavailable,  
measurement-not-supported-for-the-object,  
combining-resources-not-available,  
requested-configuration-not-supported,  
synchronisation-failure,  
priority-transport-channel-established,  
SIB-Origination-in-Node-B-not-Supported,  
requested-tx-diversity-mode-not-supported,  
unspecified,  
bCCH-scheduling-error,  
measurement-temporarily-not-available,  
invalid-CM-settings,  
reconfiguration-CFN-not-elapsed,  
number-of-DL-codes-not-supported,  
s-cipch-not-supported,  
combining-not-supported,  
ul-sf-not-supported,  
dl-SF-not-supported,  
common-transport-channel-type-not-supported,  
dedicated-transport-channel-type-not-supported,  
downlink-shared-channel-type-not-supported,  
uplink-shared-channel-type-not-supported,  
cm-not-supported,  
tx-diversity-no-longer-supported,  
unknown-Local-Cell-ID,  
...,  
number-of-UL-codes-not-supported,  
information-temporarily-not-available,  
information-provision-not-supported-for-the-object,  
cell-synchronisation-not-supported,  
cell-synchronisation-adjustment-not-supported,  
dpc-mode-change-not-supported,  
iPDL-already-activated,  
iPDL-not-supported,  
iPDL-parameters-not-available,  
frequency-acquisition-not-supported,  
power-balancing-status-not-compatible,  
requested-typeofbearer-re-arrangement-not-supported,  
signalling-Bearer-Re-arrangement-not-supported,  
bearer-Re-arrangement-needed,  
delayed-activation-not-supported,  
rl-timing-adjustment-not-supported,  
mich-not-supported,  
harq-preamble-mode-not-supported,  
f-DPCH-not-supported  
}
```

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



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```
}  
  
CCTrCH-ID ::= INTEGER (0..15)  
  
CDSubChannelNumbers ::= BIT STRING {  
    subCh11(0),  
    subCh10(1),  
    subCh9(2),  
    subCh8(3),  
    subCh7(4),  
    subCh6(5),  
    subCh5(6),  
    subCh4(7),  
    subCh3(8),  
    subCh2(9),  
    subCh1(10),  
    subCh0(11)  
} (SIZE (12))  
  
CellParameterID ::= INTEGER (0..127,...)  
  
CellPortionID ::= INTEGER (0..maxNrOfCellPortionsPerCell-1,...)  
  
CellSyncBurstCode ::= INTEGER(0..7, ...)  
  
CellSyncBurstCodeShift ::= INTEGER(0..7)  
  
CellSyncBurstRepetitionPeriod ::= INTEGER (0..4095)  
  
CellSyncBurstSIR ::= INTEGER (0..31)  
  
CellSyncBurstTiming ::= CHOICE {  
    initialPhase          INTEGER (0..1048575,...),  
    steadyStatePhase      INTEGER (0..255,...)  
}  
  
CellSyncBurstTimingLCR ::= CHOICE {  
    initialPhase          INTEGER (0..524287,...),  
    steadyStatePhase      INTEGER (0..127,...)  
}  
  
CellSyncBurstTimingThreshold ::= INTEGER(0..254)  
  
CFN ::= INTEGER (0..255)  
  
ChannelAssignmentIndication ::= ENUMERATED {  
    eA-Active,  
    eA-Inactive  
}  
  
ChipOffset ::= INTEGER (0..38399)  
-- Unit Chip
```

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```
C-ID ::= INTEGER (0..65535)

ClosedloopTimingAdjustmentMode ::= ENUMERATED {
    adj-1-slot,
    adj-2-slot,
    ...
}

CommonChannelsCapacityConsumptionLaw ::= SEQUENCE (SIZE(1..maxNrOfSF)) OF
    SEQUENCE {
        dl-Cost          INTEGER (0..65535),
        ul-Cost          INTEGER (0..65535),
        iE-Extensions    ProtocolExtensionContainer { { CommonChannelsCapacityConsumptionLaw-ExtIEs } }
        ...
    }
    OPTIONAL,

CommonChannelsCapacityConsumptionLaw-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonMeasurementAccuracy ::= CHOICE {
    tUTRANGPSMeasurementAccuracyClass    TUTRANGPSAccuracyClass,
    ...
}

CommonMeasurementType ::= ENUMERATED {
    received-total-wide-band-power,
    transmitted-carrier-power,
    acknowledged-prach-preambles,
    ul-timeslot-iscp,
    notUsed-1-acknowledged-PCPCH-access-preambles,
    notUsed-2-detected-PCPCH-access-preambles,
    ...,
    uTRAN-GPS-Timing-of-Cell-Frames-for-UE-Positioning,
    sFN-SFN-Observed-Time-Difference,
    transmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission,
    hS-DSCH-Required-Power,
    hS-DSCH-Provided-Bit-Rate,
    received-total-wide-band-power-for-cellPortion,
    transmitted-carrier-power-for-cellPortion,
    transmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission-for-cellPortion,
    upPTS-Interference,
    dlTransmissionBranchLoad,
    hS-DSCH-Required-Power-for-cell-portion,
    hS-DSCH-Provided-Bit-Rate-for-cell-portion
}

CommonMeasurementValue ::= CHOICE {
    transmitted-carrier-power                Transmitted-Carrier-Power-Value,
    received-total-wide-band-power           Received-total-wide-band-power-Value,
    acknowledged-prach-preambles             Acknowledged-PRACH-preambles-Value,
    uL-TimeslotISCP                           UL-TimeslotISCP-Value,
    notUsed-1-acknowledged-PCPCH-access-preambles NULLAcknowledged-PCPCH-access-preambles,
```

```

| notUsed-2-detected-PCPCH-access-preambles      NULLDetected-PCPCH-access-preambles,
|   ...,
|   extension-CommonMeasurementValue      Extension-CommonMeasurementValue
| }

Extension-CommonMeasurementValue ::= ProtocolIE-Single-Container {{ Extension-CommonMeasurementValueIE }}

Extension-CommonMeasurementValueIE NBAP-PROTOCOL-IES ::= {
  { ID id-TUTRANGPSMeasurementValueInformation      CRITICALITY ignore TYPE TUTRANGPSMeasurementValueInformation      PRESENCE mandatory }|
  { ID id-SFNFSNMeasurementValueInformation          CRITICALITY ignore TYPE SFNFSNMeasurementValueInformation          PRESENCE mandatory }|
  { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission      CRITICALITY ignore TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionValue      PRESENCE mandatory }|
  { ID id-HS-DSCHRequiredPowerValueInformation      CRITICALITY ignore TYPE HS-DSCHRequiredPower                          PRESENCE mandatory }|
  { ID id-HS-DSCHProvidedBitRateValueInformation    CRITICALITY ignore TYPE HS-DSCHProvidedBitRate                          PRESENCE mandatory }|
  { ID id-Transmitted-Carrier-Power-For-CellPortion-Value CRITICALITY ignore TYPE Transmitted-Carrier-Power-For-CellPortion-Value PRESENCE
mandatory }|
  { ID id-Received-total-wide-band-power-For-CellPortion-Value CRITICALITY ignore TYPE Received-total-wide-band-power-For-CellPortion-Value
PRESENCE mandatory }|
  { ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionCellPortionValue CRITICALITY ignore TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionCellPortionValue      PRESENCE mandatory }|
  { ID id-UpPTSInterferenceValue                    CRITICALITY ignore TYPE UpPTSInterferenceValue                          PRESENCE
mandatory }|
  { ID id-DLTransmissionBranchLoadValue            CRITICALITY ignore TYPE DLTransmissionBranchLoadValue
PRESENCE mandatory }|
  { ID id-HS-DSCHRequiredPowerValueInformation-For-CellPortion CRITICALITY ignore TYPE HS-DSCHRequiredPowerValueInformation-For-CellPortion
PRESENCE mandatory }|
  { ID id-HS-DSCHProvidedBitRateValueInformation-For-CellPortion CRITICALITY ignore TYPE HS-DSCHProvidedBitRateValueInformation-For-CellPortion
PRESENCE mandatory }
}

CommonMeasurementValueInformation ::= CHOICE {
  measurementAvailable      CommonMeasurementAvailable,
  measurementnotAvailable   CommonMeasurementnotAvailable
}

CommonMeasurementAvailable ::= SEQUENCE {
  commonmeasurementValue      CommonMeasurementValue,
  ie-Extensions                ProtocolExtensionContainer { { CommonMeasurementAvailableItem-ExtIEs } }      OPTIONAL,
  ...
}

CommonMeasurementAvailableItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

CommonMeasurementnotAvailable ::= NULL

CommonPhysicalChannelID ::= INTEGER (0..255)

```

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```
Common-PhysicalChannel-Status-Information ::= SEQUENCE {
    commonPhysicalChannelID      CommonPhysicalChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { Common-PhysicalChannel-Status-Information-ExtIEs} } OPTIONAL,
    ...
}

Common-PhysicalChannel-Status-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommonTransportChannelID ::= INTEGER (0..255)

CommonTransportChannel-InformationResponse ::= SEQUENCE {
    commonTransportChannelID     CommonTransportChannelID,
    bindingID                    BindingID OPTIONAL,
    transportLayerAddress        TransportLayerAddress OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { { CommonTransportChannel-InformationResponse-ExtIEs} } OPTIONAL,
    ...
}

CommonTransportChannel-InformationResponse-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Common-TransportChannel-Status-Information ::= SEQUENCE {
    commonTransportChannelID     CommonTransportChannelID,
    resourceOperationalState     ResourceOperationalState,
    availabilityStatus           AvailabilityStatus,
    iE-Extensions                ProtocolExtensionContainer { { Common-TransportChannel-Status-Information-ExtIEs} } OPTIONAL,
    ...
}

Common-TransportChannel-Status-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

CommunicationControlPortID ::= INTEGER (0..65535)

Compressed-Mode-Deactivation-Flag ::= ENUMERATED {
    deactivate,
    maintain-Active
}

ConfigurationGenerationID ::= INTEGER (0..255)
-- Value '0' means "No configuration"

ConstantValue ::= INTEGER (-10..10,...)
-- -10 dB - +10 dB
-- unit dB
```

```
-- step 1 dB
```

```
EPCH-Allowed-Total-Rate ::= ENUMERATED {
  v15,
  v30,
  v60,
  v120,
  v240,
  v480,
  v960,
  v1920,
  v2880,
  v3840,
  v4800,
  v5760,
  ...
}
```

```
EPCHScramblingCodeNumber ::= INTEGER (0..79)
```

```
EPCH-UL-DPCCH-SlotFormat ::= INTEGER (0..2,...)
```

```
CQI-Feedback-Cycle ::= ENUMERATED {v0, v2, v4, v8, v10, v20, v40, v80, v160,...}
```

```
CQI-Power-Offset ::= INTEGER (0..8,...)
```

```
-- According to mapping in ref. [9] subclause 4.2.1
```

```
CQI-RepetitionFactor ::= INTEGER (1..4,...)
```

```
-- Step: 1
```

```
CriticalityDiagnostics ::= SEQUENCE {
  procedureID          ProcedureID          OPTIONAL,
  triggeringMessage    TriggeringMessage    OPTIONAL,
  procedureCriticality Criticality          OPTIONAL,
  transactionID       TransactionID        OPTIONAL,
  iEsCriticalityDiagnostics CriticalityDiagnostics-IE-List OPTIONAL,
  iE-Extensions       ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} } OPTIONAL,
  ...
}
```

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```
Execution-Type ::= CHOICE {  
    synchronised    CFN,  
    unsynchronised  NULL  
}
```

```
Detected-PCPCH-access-preambles ::= INTEGER (0..240,...)  
-- According to mapping in [22].
```

```
DeltaSIR          ::= INTEGER (0..30)  
-- Unit dB, Step 0.1 dB, Range 0..3 dB.
```

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```
Maximum-PDSCH-Power-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
    ...  
}
```

```
MaximumTransmissionPower ::= INTEGER(0..500)  
-- Unit dBm, Range 0dBm .. 50dBm, Step +0.1dB
```

```
MaxNrOfUL-DPDCHs ::= INTEGER (1..6)
```

```
MaxNrOfUL-E-DPDCHs ::= ENUMERATED {  
    max-1,  
    max-2,  
    max-4,  
    ...  
}
```

```
Max-Number-of-PCPCHs ::= INTEGER (1..64,...
```

```
MaxPRACH-MidambleShifts ::= ENUMERATED {  
    shift4,  
    shift8,  
    ...  
}
```

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```
NCyclesPerSFNperiod ::= ENUMERATED {
    v1,
    v2,
    v4,
    v8,
    ...,
    v16,
    v32,
    v64
}

NEOT ::= INTEGER (0..8)

NFmax ::= INTEGER (1..64,...)

NRepetitionsPerCyclePeriod ::= INTEGER (2..10)

N-INSYNC-IND ::= INTEGER (1..256)

N-OUTSYNC-IND ::= INTEGER (1..256)

NeighbouringCellMeasurementInformation ::= SEQUENCE (SIZE (1..maxNrOfMeasNCell)) OF
    CHOICE {
        neighbouringFDDCellMeasurementInformation      NeighbouringFDDCellMeasurementInformation, -- FDD only
        neighbouringTDDCellMeasurementInformation      NeighbouringTDDCellMeasurementInformation,
        -- Applicable to 3.84Mcps TDD only
        ...,
        extension-neighbouringCellMeasurementInformation      Extension-neighbouringCellMeasurementInformation
    }

Extension-neighbouringCellMeasurementInformation ::= ProtocolIE-Single-Container {{ Extension-neighbouringCellMeasurementInformationIE }}

Extension-neighbouringCellMeasurementInformationIE NBAP-PROTOCOL-IES ::= {
    { ID id-neighbouringTDDCellMeasurementInformationLCR      CRITICALITY reject TYPE NeighbouringTDDCellMeasurementInformationLCR PRESENCE mandatory
    }, -- Applicable to 1.28Mcps TDD only
    ...
}

NeighbouringFDDCellMeasurementInformation ::= SEQUENCE {
    uC-Id                UC-Id,
    uARFCN                UARFCN,
    primaryScramblingCode PrimaryScramblingCode,
    iE-Extensions        ProtocolExtensionContainer { { NeighbouringFDDCellMeasurementInformationItem-ExtIEs } } OPTIONAL,
    ...
}

NeighbouringFDDCellMeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

NeighbouringTDDCellMeasurementInformation ::= SEQUENCE {
    uC-Id                UC-Id,
```



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```

uARFCN                UARFCN,
cellParameterID      CellParameterID,
timeSlot              TimeSlot              OPTIONAL,
midambleShiftAndBurstType  MidambleShiftAndBurstType  OPTIONAL,
iE-Extensions        ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationItem-ExtIEs } } OPTIONAL,
...
}

NeighbouringTDDCellMeasurementInformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

NeighbouringTDDCellMeasurementInformationLCR ::= SEQUENCE {
uC-Id                UC-Id,
uARFCN                UARFCN,
cellParameterID      CellParameterID,
timeSlotLCR           TimeSlotLCR              OPTIONAL,
midambleShiftLCR     MidambleShiftLCR      OPTIONAL,
iE-Extensions        ProtocolExtensionContainer { { NeighbouringTDDCellMeasurementInformationLCRItem-ExtIEs } } OPTIONAL,
...
}

NeighbouringTDDCellMeasurementInformationLCRItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
...
}

NI-Information ::= SEQUENCE (SIZE (1..maxNrOfNIs)) OF Notification-Indicator

Notification-Indicator ::= INTEGER (0..65535)

NodeB-CommunicationContextID ::= INTEGER (0..1048575)

NotificationIndicatorLength ::= ENUMERATED {
v2,
v4,
v8,
...
}

NumberOfReportedCellPortions ::= INTEGER (1..maxNrOfCellPortionsPerCell,...)

NStartMessage ::= INTEGER (1..8)

NSubCyclesPerCyclePeriod ::= INTEGER (1..16,...)

-- =====
-- 0
-- =====
-- =====

```

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```
-- P
-- =====
```

```
PagingIndicatorLength ::= ENUMERATED {
    v2,
    v4,
    v8,
    ...
}
```

```
PayloadCRC-PresenceIndicator ::= ENUMERATED {
    cRC-Included,
    cRC-NotIncluded,
    ...
}
```

```
PCCPCH-Power ::= INTEGER (-150..400,...)
-- PCCPCH-power = power * 10
-- If power <= -15 PCCPCH shall be set to -150
-- If power >= 40 PCCPCH shall be set to 400
-- Unit dBm, Range -15dBm .. +40 dBm, Step +0.1dB
```

```
PCP-Length ::= ENUMERATED{
    v0,
    v8
}
```

```
PDSCH-CodeMapping ::= SEQUENCE {
    dl-ScramblingCode          DL-ScramblingCode,
    signallingMethod          CHOICE {
        code-Range            PDSCH-CodeMapping-PDSCH-CodeMappingInformationList,
        tFCI-Range            PDSCH-CodeMapping-DSCH-MappingInformationList,
        explicit               PDSCH-CodeMapping-PDSCH-CodeInformationList,
        ...,
        replace                PDSCH-CodeMapping-ReplacedPDSCH-CodeInformationList
    },
    iE-Extensions              ProtocolExtensionContainer { { PDSCH-CodeMapping-ExtIEs } } OPTIONAL,
    ...
}
```

```

ReportCharacteristicsType-OnModification-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold ::= CHOICE {
    received-total-wide-band-power          Received-total-wide-band-power-Value-IncrDecrThres,
    transmitted-carrier-power                Transmitted-Carrier-Power-Value,
    acknowledged-prach-preambles            Acknowledged-PRACH-preambles-Value,
    uL-TimeslotISCP                          UL-TimeslotISCP-Value-IncrDecrThres,
    sir                                       SIR-Value-IncrDecrThres,
    sir-error                                SIR-Error-Value-IncrDecrThres,
    transmitted-code-power                   Transmitted-Code-Power-Value-IncrDecrThres,
    rscp                                     RSCP-Value-IncrDecrThres,
    round-trip-time                          Round-Trip-Time-IncrDecrThres,
    notUsed-1-acknowledged-PCPCH-access-preambles NULLAcknowledged-PCPCH-access-preambles,
    notUsed-2-detected-PCPCH-access-preambles    NULLDetected-PCPCH-access-preambles,
    ...
    extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold      Extension-ReportCharacteristicsType-
MeasurementIncreaseDecreaseThreshold
}

Extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThreshold ::= ProtocolIE-Single-Container {{ Extension-ReportCharacteristicsType-
MeasurementIncreaseDecreaseThresholdIE }}

Extension-ReportCharacteristicsType-MeasurementIncreaseDecreaseThresholdIE NBAP-PROTOCOL-IES ::= {
{ ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission          CRITICALITY reject      TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionValue PRESENCE mandatory}|
{ ID id-Transmitted-Carrier-Power-For-CellPortion          CRITICALITY reject      TYPE Transmitted-Carrier-Power-Value PRESENCE mandatory }|
{ ID id-Received-total-wide-band-power-For-CellPortion CRITICALITY reject      TYPE Received-total-wide-band-power-Value-IncrDecrThres PRESENCE
mandatory }|
{ ID id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionCellPortion CRITICALITY reject      TYPE
TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmissionValue PRESENCE mandatory }|
{ ID id-UpPTSInterferenceValue          CRITICALITY reject      TYPE UpPTSInterferenceValue PRESENCE mandatory }
}

ReportCharacteristicsType-MeasurementThreshold ::= CHOICE {
    received-total-wide-band-power          Received-total-wide-band-power-Value,
    transmitted-carrier-power                Transmitted-Carrier-Power-Value,
    acknowledged-prach-preambles            Acknowledged-PRACH-preambles-Value,
    uL-TimeslotISCP                          UL-TimeslotISCP-Value,
    sir                                       SIR-Value,
    sir-error                                SIR-Error-Value,
    transmitted-code-power                   Transmitted-Code-Power-Value,
    rscp                                     RSCP-Value,
    rx-timing-deviation                      Rx-Timing-Deviation-Value,
    round-trip-time                          Round-Trip-Time-Value,
    notUsed-1-acknowledged-PCPCH-access-preambles NULLAcknowledged-PCPCH-access-preambles,
    notUsed-2-detected-PCPCH-access-preambles    NULLDetected-PCPCH-access-preambles,
    ...
    extension-ReportCharacteristicsType-MeasurementThreshold      Extension-ReportCharacteristicsType-MeasurementThreshold
}

```

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### 9.3.6 Constant Definitions

```

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

NBAP-Constants {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) nbap (2) version1 (1) nbap-Constants (4)}

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS
    ProcedureCode,
    ProtocolIE-ID
FROM NBAP-CommonDataTypes;

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

id-audit                               ProcedureCode ::= 0
id-auditRequired                       ProcedureCode ::= 1
id-blockResource                       ProcedureCode ::= 2
id-cellDeletion                        ProcedureCode ::= 3
id-cellReconfiguration                 ProcedureCode ::= 4
id-cellSetup                           ProcedureCode ::= 5
id-cellSynchronisationInitiation       ProcedureCode ::= 45
id-cellSynchronisationReconfiguration  ProcedureCode ::= 46
id-cellSynchronisationReporting        ProcedureCode ::= 47
id-cellSynchronisationTermination      ProcedureCode ::= 48
id-cellSynchronisationFailure         ProcedureCode ::= 49
id-commonMeasurementFailure            ProcedureCode ::= 6
id-commonMeasurementInitiation         ProcedureCode ::= 7
id-commonMeasurementReport             ProcedureCode ::= 8
id-commonMeasurementTermination        ProcedureCode ::= 9
id-commonTransportChannelDelete        ProcedureCode ::= 10
id-commonTransportChannelReconfigure   ProcedureCode ::= 11
id-commonTransportChannelSetup         ProcedureCode ::= 12
id-compressedModeCommand               ProcedureCode ::= 14
id-dedicatedMeasurementFailure         ProcedureCode ::= 16
id-dedicatedMeasurementInitiation      ProcedureCode ::= 17
id-dedicatedMeasurementReport          ProcedureCode ::= 18
id-dedicatedMeasurementTermination     ProcedureCode ::= 19

```

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```
id-downlinkPowerControl ProcedureCode ::= 20
id-downlinkPowerTimeslotControl ProcedureCode ::= 38
id-errorIndicationForCommon ProcedureCode ::= 35
id-errorIndicationForDedicated ProcedureCode ::= 21
id-informationExchangeFailure ProcedureCode ::= 40
id-informationExchangeInitiation ProcedureCode ::= 41
id-informationExchangeTermination ProcedureCode ::= 42
id-informationReporting ProcedureCode ::= 43
id-BearerRearrangement ProcedureCode ::= 50
id-mBMSNotificationUpdate ProcedureCode ::= 53
id-physicalSharedChannelReconfiguration ProcedureCode ::= 37
id-privateMessageForCommon ProcedureCode ::= 36
id-privateMessageForDedicated ProcedureCode ::= 22
id-radioLinkAddition ProcedureCode ::= 23
id-radioLinkDeletion ProcedureCode ::= 24
id-radioLinkFailure ProcedureCode ::= 25
id-radioLinkPreemption ProcedureCode ::= 39
id-radioLinkRestoration ProcedureCode ::= 26
id-radioLinkSetup ProcedureCode ::= 27
id-reset ProcedureCode ::= 13
id-resourceStatusIndication ProcedureCode ::= 28
id-cellSynchronisationAdjustment ProcedureCode ::= 44
id-synchronisedRadioLinkReconfigurationCancellation ProcedureCode ::= 29
id-synchronisedRadioLinkReconfigurationCommit ProcedureCode ::= 30
id-synchronisedRadioLinkReconfigurationPreparation ProcedureCode ::= 31
id-systemInformationUpdate ProcedureCode ::= 32
id-unblockResource ProcedureCode ::= 33
id-unSynchronisedRadioLinkReconfiguration ProcedureCode ::= 34
id-radioLinkActivation ProcedureCode ::= 51
id-radioLinkParameterUpdate ProcedureCode ::= 52
```

```
-- *****
--
-- Lists
--
-- *****
```

```
maxNrOfCodes INTEGER ::= 10
maxNrOfDLTSSs INTEGER ::= 15
maxNrOfDLTSLCRs INTEGER ::= 6
maxNrOfErrors INTEGER ::= 256
maxNrOfTFs INTEGER ::= 32
maxNrOfTFCSs INTEGER ::= 1024
maxNrOfRLs INTEGER ::= 16
maxNrOfRLs-1 INTEGER ::= 15 -- maxNrOfRLs - 1
maxNrOfRLs-2 INTEGER ::= 14 -- maxNrOfRLs - 2
maxNrOfRLSets INTEGER ::= maxNrOfRLs
maxNrOfDPCHs INTEGER ::= 240
maxNrOfDPCHLCRs INTEGER ::= 240
maxNrOfSCCPCHs INTEGER ::= 8
maxNrOfSCCPCHsinExt INTEGER ::= 232
maxNrOfCPCHs INTEGER ::= 16
maxNrOfPCPCHs INTEGER ::= 64
```

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```
maxNrOfDCHs          INTEGER ::= 128
maxNrOfDSCHs         INTEGER ::= 32
maxNrOfFACHs         INTEGER ::= 8
maxNrOfCCTrCHs      INTEGER ::= 16
maxNrOfPDSCHs       INTEGER ::= 256
maxNrOfHSPDSCHs     INTEGER ::= 16
maxNrOfPUSCHs       INTEGER ::= 256
maxNrOfPDSCHSets    INTEGER ::= 256
maxNrOfPRACHLCRs    INTEGER ::= 8
maxNrOfPUSCHSets    INTEGER ::= 256
maxNrOfSCCPCHLCRs   INTEGER ::= 8
maxNrOfSCCPCHsLCRinExt INTEGER ::= 88
maxNrOfULTSs        INTEGER ::= 15
maxNrOfULTSLCRs     INTEGER ::= 6
maxNrOfUSCHs        INTEGER ::= 32
maxAPSigNum          INTEGER ::= 16
maxNrOfSlotFormatsPRACH INTEGER ::= 8
maxCellinNodeB      INTEGER ::= 256
maxCCPinNodeB       INTEGER ::= 256
maxCPCHCell         INTEGER ::= maxNrOfCPCHs
maxCTFC             INTEGER ::= 16777215
maxLocalCellinNodeB INTEGER ::= maxCellinNodeB
maxNoofLen          INTEGER ::= 7
maxFPACHCell        INTEGER ::= 8
maxRACHCell         INTEGER ::= maxPRACHCell
maxPRACHCell        INTEGER ::= 16
maxPCPCHCell        INTEGER ::= 64
maxSCCPCHCell       INTEGER ::= 32
maxSCCPCHCellinExt  INTEGER ::= 208 -- maxNrOfSCCPCHs + maxNrOfSCCPCHsinExt - maxSCCPCHCell
maxSCCPCHCellinExtLCR INTEGER ::= 64 -- maxNrOfSCCPCHLCRs + maxNrOfSCCPCHsLCRinExt - maxSCCPCHCell
maxSCPICHCell       INTEGER ::= 32
maxTTI-count        INTEGER ::= 4
maxIBSEG            INTEGER ::= 16
maxIB               INTEGER ::= 64
maxFACHCell         INTEGER ::= 256 -- maxNrOfFACHs * maxSCCPCHCell
maxRateMatching     INTEGER ::= 256
maxCodeNrComp-1     INTEGER ::= 256
maxHS-PDSCHCodeNrComp-1 INTEGER ::= 15
maxHS-SCCHCodeNrComp-1 INTEGER ::= 127
maxNrOfCellSyncBursts INTEGER ::= 10
maxNrOfCodeGroups   INTEGER ::= 256
maxNrOfReceptsPerSyncFrame INTEGER ::= 16
maxNrOfMeasNCell    INTEGER ::= 96
maxNrOfMeasNCell-1  INTEGER ::= 95 -- maxNrOfMeasNCell - 1
maxNrOfTFCIGroups   INTEGER ::= 256
maxNrOfTFCI1Combs   INTEGER ::= 512
maxNrOfTFCI2Combs   INTEGER ::= 1024
maxNrOfTFCI2Combs-1 INTEGER ::= 1023
maxNrOfSF            INTEGER ::= 8
maxTGPS             INTEGER ::= 6
maxCommunicationContext INTEGER ::= 1048575
maxNrOfLevels       INTEGER ::= 256
maxNoSat            INTEGER ::= 16
```

```

maxNoGPSItems          INTEGER ::= 8
maxNrOfHSSCCHs         INTEGER ::= 32
maxNrOfHSSICHs         INTEGER ::= 4
maxNrOfSyncFramesLCR   INTEGER ::= 512
maxNrOfReceptionsperSyncFrameLCR  INTEGER ::= 8
maxNrOfSyncDLCodesLCR  INTEGER ::= 32
maxNrOfHSSCCHCodes     INTEGER ::= 4
maxNrOfMACdFlows       INTEGER ::= 8
maxNrOfMACdFlows-1     INTEGER ::= 7  -- maxNrOfMACdFlows - 1
maxNrOfMACdPDUIndexes  INTEGER ::= 8
maxNrOfMACdPDUIndexes-1  INTEGER ::= 7  -- maxNoOfMACdPDUIndexes - 1
maxNrOfNIs             INTEGER ::= 256
maxNrOfPriorityQueues   INTEGER ::= 8
maxNrOfPriorityQueues-1  INTEGER ::= 7  -- maxNoOfPriorityQueues - 1
maxNrOfHARQProcesses   INTEGER ::= 8
maxNrOfContextsOnUeList  INTEGER ::= 16
maxNrOfCellPortionsPerCell  INTEGER ::= 64
maxNrOfCellPortionsPerCell-1  INTEGER ::= 63
maxNrOfPriorityClasses  INTEGER ::= 16
maxNrOfSatAlmanac-maxNoSat  INTEGER ::= 16  -- maxNrOfSatAlmanac - maxNoSat
maxE-AGCH-CodeNrComp-1  INTEGER ::= 1  -- FFS
maxE-RGCH-E-HICH-CodeNrComp-1  INTEGER ::= 1  -- FFS
maxNrOfDDIs            INTEGER ::= 1  -- FFS
maxNrOfE-AGCHs         INTEGER ::= 1  -- FFS
maxNrOfEDCHMACdFlows   INTEGER ::= 8  -- FFS
maxNrOfEDCHMACdFlows-1  INTEGER ::= 7  -- FFS
maxNrOfE-RGCHs-E-HICHs  INTEGER ::= 1  -- FFS
maxNrofSigSeqRGHI-1    INTEGER ::= 39

```

```

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

```

```

id-AICH-Information          ProtocolIE-ID ::= 0
id-AICH-InformationItem-ResourceStatusInd  ProtocolIE-ID ::= 1
id-BCH-Information          ProtocolIE-ID ::= 7
id-BCH-InformationItem-ResourceStatusInd  ProtocolIE-ID ::= 8
id-BCCH-ModificationTime    ProtocolIE-ID ::= 9
id-BlockingPriorityIndicator ProtocolIE-ID ::= 10
id-Cause                    ProtocolIE-ID ::= 13
id-CCP-InformationItem-AuditRsp  ProtocolIE-ID ::= 14
id-CCP-InformationList-AuditRsp  ProtocolIE-ID ::= 15
id-CCP-InformationItem-ResourceStatusInd  ProtocolIE-ID ::= 16
id-Cell-InformationItem-AuditRsp  ProtocolIE-ID ::= 17
id-Cell-InformationItem-ResourceStatusInd  ProtocolIE-ID ::= 18
id-Cell-InformationList-AuditRsp  ProtocolIE-ID ::= 19
id-CellParameterID         ProtocolIE-ID ::= 23
id-CFN                     ProtocolIE-ID ::= 24
id-C-ID                    ProtocolIE-ID ::= 25
id-CommonMeasurementAccuracy  ProtocolIE-ID ::= 39
id-CommonMeasurementObjectType-CM-Rprt    ProtocolIE-ID ::= 31

```



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id-CommonMeasurementObjectType-CM-Rqst  
id-CommonMeasurementObjectType-CM-Rsp  
id-CommonMeasurementType  
id-CommonPhysicalChannelID  
id-CommonPhysicalChannelType-CTCH-SetupRqstFDD  
id-CommonPhysicalChannelType-CTCH-SetupRqstTDD  
id-CommunicationControlPortID  
id-ConfigurationGenerationID  
id-CRNC-CommunicationContextID  
id-CriticalityDiagnostics  
id-DCHs-to-Add-FDD  
id-DCH-AddList-RL-ReconfPrepTDD  
id-DCHs-to-Add-TDD  
id-DCH-DeleteList-RL-ReconfPrepFDD  
id-DCH-DeleteList-RL-ReconfPrepTDD  
id-DCH-DeleteList-RL-ReconfRqstFDD  
id-DCH-DeleteList-RL-ReconfRqstTDD  
id-DCH-FDD-Information  
id-DCH-TDD-Information  
id-DCH-InformationResponse  
id-FDD-DCHs-to-Modify  
id-TDD-DCHs-to-Modify  
id-DCH-ModifyList-RL-ReconfRqstTDD  
id-DCH-RearrangeList-Bearer-RearrangeInd  
id-DedicatedMeasurementObjectType-DM-Rprt  
id-DedicatedMeasurementObjectType-DM-Rqst  
id-DedicatedMeasurementObjectType-DM-Rsp  
id-DedicatedMeasurementType  
id-DL-CCTrCH-InformationItem-RL-SetupRqstTDD  
id-DL-CCTrCH-InformationList-RL-AdditionRqstTDD  
id-DL-CCTrCH-InformationList-RL-SetupRqstTDD  
id-DL-DPCH-InformationItem-RL-AdditionRqstTDD  
id-DL-DPCH-InformationList-RL-SetupRqstTDD  
id-DL-DPCH-Information-RL-ReconfPrepFDD  
id-DL-DPCH-Information-RL-ReconfRqstFDD  
id-DL-DPCH-Information-RL-SetupRqstFDD  
id-DL-DPCH-TimingAdjustment  
id-DL-ReferencePowerInformationItem-DL-PC-Rqst  
id-DLReferencePower  
id-DLReferencePowerList-DL-PC-Rqst  
id-DSCH-AddItem-RL-ReconfPrepFDD  
id-DSCHs-to-Add-FDD  
id-DSCH-DeleteItem-RL-ReconfPrepFDD  
id-DSCH-DeleteList-RL-ReconfPrepFDD  
id-DSCHs-to-Add-TDD  
id-DSCH-Information-DeleteList-RL-ReconfPrepTDD  
id-DSCH-Information-ModifyList-RL-ReconfPrepTDD  
id-DSCH-InformationResponse  
id-DSCH-FDD-Information  
id-DSCH-TDD-Information  
id-DSCH-ModifyItem-RL-ReconfPrepFDD  
id-DSCH-ModifyList-RL-ReconfPrepFDD  
id-DSCH-RearrangeList-Bearer-RearrangeInd

ProtocolIE-ID ::= 32  
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id-End-Of-Audit-Sequence-Indicator  
id-FACH-Information  
id-FACH-InformationItem-ResourceStatusInd  
id-FACH-ParametersList-CTCH-ReconfRqstTDD  
id-FACH-ParametersListIE-CTCH-SetupRqstFDD  
id-FACH-ParametersListIE-CTCH-SetupRqstTDD  
id-IndicationType-ResourceStatusInd  
id-Local-Cell-ID  
id-Local-Cell-Group-InformationItem-AuditRsp  
id-Local-Cell-Group-InformationItem-ResourceStatusInd  
id-Local-Cell-Group-InformationItem2-ResourceStatusInd  
id-Local-Cell-Group-InformationList-AuditRsp  
id-Local-Cell-InformationItem-AuditRsp  
id-Local-Cell-InformationItem-ResourceStatusInd  
id-Local-Cell-InformationItem2-ResourceStatusInd  
id-Local-Cell-InformationList-AuditRsp  
id-AdjustmentPeriod  
id-MaxAdjustmentStep  
id-MaximumTransmissionPower  
id-MeasurementFilterCoefficient  
id-MeasurementID  
id-MessageStructure  
id-MIB-SB-SIB-InformationList-SystemInfoUpdateRqst  
id-NodeB-CommunicationContextID  
id-NeighbouringCellMeasurementInformation  
id-P-CCPCH-Information  
id-P-CCPCH-InformationItem-ResourceStatusInd  
id-P-CPICH-Information  
id-P-CPICH-InformationItem-ResourceStatusInd  
id-P-SCH-Information  
id-PCCPCH-Information-Cell-ReconfRqstTDD  
id-PCCPCH-Information-Cell-SetupRqstTDD  
id-PCH-Parameters-CTCH-ReconfRqstTDD  
id-PCH-ParametersItem-CTCH-SetupRqstFDD  
id-PCH-ParametersItem-CTCH-SetupRqstTDD  
id-PCH-Information  
id-PDSCH-Information-AddListIE-PSCH-ReconfRqst  
id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst  
id-PDSCHSets-AddList-PSCH-ReconfRqst  
id-PDSCHSets-DeleteList-PSCH-ReconfRqst  
id-PDSCHSets-ModifyList-PSCH-ReconfRqst  
id-PICH-Information  
id-PICH-Parameters-CTCH-ReconfRqstTDD  
id-PowerAdjustmentType  
id-PRACH-Information  
id-PrimaryCCPCH-Information-Cell-ReconfRqstFDD  
id-PrimaryCCPCH-Information-Cell-SetupRqstFDD  
id-PrimaryCPICH-Information-Cell-ReconfRqstFDD  
id-PrimaryCPICH-Information-Cell-SetupRqstFDD  
id-PrimarySCH-Information-Cell-ReconfRqstFDD  
id-PrimarySCH-Information-Cell-SetupRqstFDD  
id-PrimaryScramblingCode  
id-SCH-Information-Cell-ReconfRqstTDD

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ProtocolIE-ID ::= 113  
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id-SCH-Information-Cell-SetupRqstTDD  
id-PUSCH-Information-AddListIE-PSCH-ReconfRqst  
id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst  
id-PUSCHSets-AddList-PSCH-ReconfRqst  
id-PUSCHSets-DeleteList-PSCH-ReconfRqst  
id-PUSCHSets-ModifyList-PSCH-ReconfRqst  
id-RACH-Information  
id-RACH-ParametersItem-CTCH-SetupRqstFDD  
id-RACH-ParameterItem-CTCH-SetupRqstTDD  
id-ReportCharacteristics  
id-Reporting-Object-RL-FailureInd  
id-Reporting-Object-RL-RestoreInd  
id-RL-InformationItem-DM-Rprt  
id-RL-InformationItem-DM-Rqst  
id-RL-InformationItem-DM-Rsp  
id-RL-InformationItem-RL-AdditionRqstFDD  
id-RL-informationItem-RL-DeletionRqst  
id-RL-InformationItem-RL-FailureInd  
id-RL-InformationItem-RL-PreemptRequiredInd  
id-RL-InformationItem-RL-ReconfPrepFDD  
id-RL-InformationItem-RL-ReconfRqstFDD  
id-RL-InformationItem-RL-RestoreInd  
id-RL-InformationItem-RL-SetupRqstFDD  
id-RL-InformationList-RL-AdditionRqstFDD  
id-RL-informationList-RL-DeletionRqst  
id-RL-InformationList-RL-PreemptRequiredInd  
id-RL-InformationList-RL-ReconfPrepFDD  
id-RL-InformationList-RL-ReconfRqstFDD  
id-RL-InformationList-RL-SetupRqstFDD  
id-RL-InformationResponseItem-RL-AdditionRspFDD  
id-RL-InformationResponseItem-RL-ReconfReady  
id-RL-InformationResponseItem-RL-ReconfRsp  
id-RL-InformationResponseItem-RL-SetupRspFDD  
id-RL-InformationResponseList-RL-AdditionRspFDD  
id-RL-InformationResponseList-RL-ReconfReady  
id-RL-InformationResponseList-RL-ReconfRsp  
id-RL-InformationResponseList-RL-SetupRspFDD  
id-RL-InformationResponse-RL-AdditionRspTDD  
id-RL-InformationResponse-RL-SetupRspTDD  
id-RL-Information-RL-AdditionRqstTDD  
id-RL-Information-RL-ReconfRqstTDD  
id-RL-Information-RL-ReconfPrepTDD  
id-RL-Information-RL-SetupRqstTDD  
id-RL-ReconfigurationFailureItem-RL-ReconfFailure  
id-RL-Set-InformationItem-DM-Rprt  
id-RL-Set-InformationItem-DM-Rsp  
id-RL-Set-InformationItem-RL-FailureInd  
id-RL-Set-InformationItem-RL-RestoreInd  
id-S-CCPCH-Information  
id-S-CPICH-Information  
id-SCH-Information  
id-S-SCH-Information  
id-Secondary-CCPCHListIE-CTCH-ReconfRqstTDD

ProtocolIE-ID ::= 184  
ProtocolIE-ID ::= 185  
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id-Secondary-CCPCH-parameterListIE-CTCH-SetupRqstTDD  
id-Secondary-CCPCH-Parameters-CTCH-ReconfRqstTDD  
id-SecondaryCPICH-InformationItem-Cell-ReconfRqstFDD  
id-SecondaryCPICH-InformationItem-Cell-SetupRqstFDD  
id-SecondaryCPICH-InformationList-Cell-ReconfRqstFDD  
id-SecondaryCPICH-InformationList-Cell-SetupRqstFDD  
id-SecondarySCH-Information-Cell-ReconfRqstFDD  
id-SecondarySCH-Information-Cell-SetupRqstFDD  
id-SegmentInformationListIE-SystemInfoUpdate  
id-SFN  
id-SignallingBearerRequestIndicator  
id-ShutdownTimer  
id-Start-Of-Audit-Sequence-Indicator  
id-Successful-RL-InformationRespItem-RL-AdditionFailureFDD  
id-Successful-RL-InformationRespItem-RL-SetupFailureFDD  
id-SyncCase  
id-SyncCaseIndicatorItem-Cell-SetupRqstTDD-PSCH  
id-T-Cell  
id-TargetCommunicationControlPortID  
id-TimeSlotConfigurationList-Cell-ReconfRqstTDD  
id-TimeSlotConfigurationList-Cell-SetupRqstTDD  
id-TransmissionDiversityApplied  
id-TypeOfError  
id-UARFCNforNt  
id-UARFCNforNd  
id-UARFCNforNu  
id-UL-CCTrCH-InformationItem-RL-SetupRqstTDD  
id-UL-CCTrCH-InformationList-RL-AdditionRqstTDD  
id-UL-CCTrCH-InformationList-RL-SetupRqstTDD  
id-UL-DPCH-InformationItem-RL-AdditionRqstTDD  
id-UL-DPCH-InformationList-RL-SetupRqstTDD  
id-UL-DPCH-Information-RL-ReconfPrepFDD  
id-UL-DPCH-Information-RL-ReconfRqstFDD  
id-UL-DPCH-Information-RL-SetupRqstFDD  
id-Unsuccessful-RL-InformationRespItem-RL-AdditionFailureFDD  
id-Unsuccessful-RL-InformationRespItem-RL-SetupFailureFDD  
id-Unsuccessful-RL-InformationResp-RL-AdditionFailureTDD  
id-Unsuccessful-RL-InformationResp-RL-SetupFailureTDD  
id-USCH-Information-Add  
id-USCH-Information-DeleteList-RL-ReconfPrepTDD  
id-USCH-Information-ModifyList-RL-ReconfPrepTDD  
id-USCH-InformationResponse  
id-USCH-Information  
id-USCH-RearrangeList-Bearer-RearrangeInd  
id-Active-Pattern-Sequence-Information  
id-AICH-ParametersListIE-CTCH-ReconfRqstFDD  
id-AdjustmentRatio  
id-Not-Used-320AP-AICH-Information  
id-Not-Used-322AP-AICH-ParametersListIE-CTCH-ReconfRqstFDD  
id-FACH-ParametersListIE-CTCH-ReconfRqstFDD  
id-CauseLevel-PSCH-ReconfFailure  
id-CauseLevel-RL-AdditionFailureFDD  
id-CauseLevel-RL-AdditionFailureTDD

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ProtocolIE-ID ::= 258  
ProtocolIE-ID ::= 259  
ProtocolIE-ID ::= 260  
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id-CauseLevel-RL-ReconfFailure  
id-CauseLevel-RL-SetupFailureFDD  
id-CauseLevel-RL-SetupFailureTDD  
id-~~Not-Used-330~~~~CDCA-ICH-Information~~  
id-~~Not-Used-332~~~~CDCA-ICH-ParametersListIE-CTCH-ReconfRqstFDD~~  
id-Closed-Loop-Timing-Adjustment-Mode  
id-CommonPhysicalChannelType-CTCH-ReconfRqstFDD  
id-Compressed-Mode-Deactivation-Flag  
id-~~Not-Used-336~~~~CPCH-Information~~  
id-~~Not-Used-342~~~~CPCH-Parameters-CTCH-SetupRsp~~  
id-~~Not-Used-342~~~~CPCH-ParametersListIE-CTCH-ReconfRqstFDD~~  
id-DL-CCTrCH-InformationAddList-RL-ReconfPrepTDD  
id-DL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD  
id-DL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  
id-DL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD  
id-DL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD  
id-DL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  
id-DL-DPCH-InformationAddListIE-RL-ReconfPrepTDD  
id-DL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD  
id-DL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD  
id-DL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD  
id-DL-TPC-Pattern01Count  
id-DPC-Mode  
id-DPCHConstant  
id-DSCH-FDD-Common-Information  
id-EnhancedDSCHPC  
id-EnhancedDSCHPCIndicator  
id-FACH-ParametersList-CTCH-SetupRsp  
id-Limited-power-increase-information-Cell-SetupRqstFDD  
id-PCH-Parameters-CTCH-SetupRsp  
id-PCH-ParametersItem-CTCH-ReconfRqstFDD  
id-~~Not-Used-376~~~~PCPCH-Information~~  
id-PICH-ParametersItem-CTCH-ReconfRqstFDD  
id-PRACHConstant  
id-PRACH-ParametersListIE-CTCH-ReconfRqstFDD  
id-PUSCHConstant  
id-RACH-Parameters-CTCH-SetupRsp  
id-SSDT-CellIDforEDSCHPC  
id-Synchronisation-Configuration-Cell-ReconfRqst  
id-Synchronisation-Configuration-Cell-SetupRqst  
id-Transmission-Gap-Pattern-Sequence-Information  
id-UL-CCTrCH-InformationAddList-RL-ReconfPrepTDD  
id-UL-CCTrCH-InformationDeleteItem-RL-ReconfRqstTDD  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfPrepTDD  
id-UL-CCTrCH-InformationDeleteList-RL-ReconfRqstTDD  
id-UL-CCTrCH-InformationModifyItem-RL-ReconfRqstTDD  
id-UL-CCTrCH-InformationModifyList-RL-ReconfPrepTDD  
id-UL-CCTrCH-InformationModifyList-RL-ReconfRqstTDD  
id-UL-DPCH-InformationAddListIE-RL-ReconfPrepTDD  
id-UL-DPCH-InformationModify-AddListIE-RL-ReconfPrepTDD  
id-UL-DPCH-InformationModify-DeleteListIE-RL-ReconfPrepTDD  
id-UL-DPCH-InformationModify-ModifyListIE-RL-ReconfPrepTDD

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ProtocolIE-ID ::= 327  
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id-Unsuccessful-PDSCHSetItem-PSCH-ReconfFailureTDD  
id-Unsuccessful-PUSCHSetItem-PSCH-ReconfFailureTDD  
id-CommunicationContextInfoItem-Reset  
id-CommunicationControlPortInfoItem-Reset  
id-ResetIndicator  
id-TFCI2-Bearer-Information-RL-SetupRqstFDD  
id-TFCI2-BearerSpecificInformation-RL-ReconfPrepFDD  
id-TFCI2-BearerInformationResponse  
id-TFCI2BearerRequestIndicator  
id-TimingAdvanceApplied  
id-CFNReportingIndicator  
id-SFNReportingIndicator  
id-InnerLoopDLPCStatus  
id-TimeslotISCPInfo  
id-PICH-ParametersItem-CTCH-SetupRqstTDD  
id-PRACH-ParametersItem-CTCH-SetupRqstTDD  
id-CCTrCH-InformationItem-RL-FailureInd  
id-CCTrCH-InformationItem-RL-RestoreInd  
id-CauseLevel-SyncAdjustmntFailureTDD  
id-CellAdjustmentInfo-SyncAdjustmntRqstTDD  
id-CellAdjustmentInfoItem-SyncAdjustmentRqstTDD  
id-CellSyncBurstInfoList-CellSyncReconfRqstTDD  
id-CellSyncBurstTransInit-CellSyncInitiationRqstTDD  
id-CellSyncBurstMeasureInit-CellSyncInitiationRqstTDD  
id-CellSyncBurstTransReconfiguration-CellSyncReconfRqstTDD  
id-CellSyncBurstMeasReconfiguration-CellSyncReconfRqstTDD  
id-CellSyncBurstTransInfoList-CellSyncReconfRqstTDD  
id-CellSyncBurstMeasInfoList-CellSyncReconfRqstTDD  
id-CellSyncBurstTransReconfInfo-CellSyncReconfRqstTDD  
id-CellSyncInfo-CellSyncReprtTDD  
id-CSBTransmissionID  
id-CSBMeasurementID  
id-IntStdPhCellSyncInfoItem-CellSyncReprtTDD  
id-NCyclesPerSFNperiod  
id-NRepetitionsPerCyclePeriod  
id-SyncFrameNumber  
id-SynchronisationReportType  
id-SynchronisationReportCharacteristics  
id-Unsuccessful-cell-InformationRespItem-SyncAdjustmntFailureTDD  
id-LateEntranceCellSyncInfoItem-CellSyncReprtTDD  
id-ReferenceClockAvailability  
id-ReferenceSFNoffset  
id-InformationExchangeID  
id-InformationExchangeObjectType-InfEx-Rqst  
id-InformationType  
id-InformationReportCharacteristics  
id-InformationExchangeObjectType-InfEx-Rsp  
id-InformationExchangeObjectType-InfEx-Rprt  
id-IPDLParameter-Information-Cell-ReconfRqstFDD  
id-IPDLParameter-Information-Cell-SetupRqstFDD  
id-IPDLParameter-Information-Cell-ReconfRqstTDD  
id-IPDLParameter-Information-Cell-SetupRqstTDD  
id-DL-DPCH-LCR-Information-RL-SetupRqstTDD

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ProtocolIE-ID ::= 408  
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id-DwPCH-LCR-Information  
id-DwPCH-LCR-InformationList-AuditRsp  
id-DwPCH-LCR-Information-Cell-SetupRqstTDD  
id-DwPCH-LCR-Information-Cell-ReconfRqstTDD  
id-DwPCH-LCR-Information-ResourceStatusInd  
id-maxFACH-Power-LCR-CTCH-SetupRqstTDD  
id-maxFACH-Power-LCR-CTCH-ReconfRqstTDD  
id-FPACH-LCR-Information  
id-FPACH-LCR-Information-AuditRsp  
id-FPACH-LCR-InformationList-AuditRsp  
id-FPACH-LCR-InformationList-ResourceStatusInd  
id-FPACH-LCR-Parameters-CTCH-SetupRqstTDD  
id-FPACH-LCR-Parameters-CTCH-ReconfRqstTDD  
id-PCCPCH-LCR-Information-Cell-SetupRqstTDD  
id-PCH-Power-LCR-CTCH-SetupRqstTDD  
id-PCH-Power-LCR-CTCH-ReconfRqstTDD  
id-PCICH-LCR-Parameters-CTCH-SetupRqstTDD  
id-PRACH-LCR-ParametersList-CTCH-SetupRqstTDD  
id-RL-InformationResponse-LCR-RL-SetupRspTDD  
id-Secondary-CCPCH-LCR-parameterList-CTCH-SetupRqstTDD  
id-TimeSlot  
id-TimeSlotConfigurationList-LCR-Cell-ReconfRqstTDD  
id-TimeSlotConfigurationList-LCR-Cell-SetupRqstTDD  
id-TimeslotISCP-LCR-InfoList-RL-SetupRqstTDD  
id-TimeSlotLCR-CM-Rqst  
id-UL-DPCH-LCR-Information-RL-SetupRqstTDD  
id-DL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD  
id-UL-DPCH-InformationItem-LCR-RL-AdditionRqstTDD  
id-TimeslotISCP-InformationList-LCR-RL-AdditionRqstTDD  
id-DL-DPCH-LCR-InformationAddList-RL-ReconfPrepTDD  
id-DL-DPCH-LCR-InformationModify-AddList-RL-ReconfPrepTDD  
id-DL-Timeslot-LCR-InformationModify-ModifyList-RL-ReconfPrepTDD  
id-TimeslotISCPInfoList-LCR-DL-PC-RqstTDD  
id-UL-DPCH-LCR-InformationAddListIE-RL-ReconfPrepTDD  
id-UL-DPCH-LCR-InformationModify-AddList  
id-UL-TimeslotLCR-Information-RL-ReconfPrepTDD  
id-UL-SIRTarget  
id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst  
id-PDSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst  
id-PDSCH-Information-Cell-SetupRqstFDD  
id-PDSCH-Information-Cell-ReconfRqstFDD  
id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst  
id-PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst  
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id-PUSCH-AddInformation-LCR-AddListIE-PSCH-ReconfRqst  
id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst  
id-PUSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst  
id-timeslotInfo-CellSyncInitiationRqstTDD  
id-SyncReportType-CellSyncReprtTDD  
id-Power-Local-Cell-Group-InformationItem-AuditRsp  
id-Power-Local-Cell-Group-InformationItem-ResourceStatusInd  
id-Power-Local-Cell-Group-InformationItem2-ResourceStatusInd  
id-Power-Local-Cell-Group-InformationList-AuditRsp

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ProtocolIE-ID ::= 501

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id-Power-Local-Cell-Group-InformationList-ResourceStatusInd  
id-Power-Local-Cell-Group-InformationList2-ResourceStatusInd  
id-Power-Local-Cell-Group-ID  
id-PUSCH-Info-DM-Rqst  
id-PUSCH-Info-DM-Rsp  
id-PUSCH-Info-DM-Rprt  
id-InitDL-Power  
id-cellSyncBurstRepetitionPeriod  
id-ReportCharacteristicsType-OnModification  
id-SFNFSNMeasurementValueInformation  
id-SFNFSNMeasurementThresholdInformation  
id-TUTRANGPSMeasurementValueInformation  
id-TUTRANGPSMeasurementThresholdInformation  
id-Rx-Timing-Deviation-Value-LCR  
id-RL-InformationResponse-LCR-RL-AdditionRspTDD  
id-DL-PowerBalancing-Information  
id-DL-PowerBalancing-ActivationIndicator  
id-DL-PowerBalancing-UpdatedIndicator  
id-CCTrCH-Initial-DL-Power-RL-SetupRqstTDD  
id-CCTrCH-Initial-DL-Power-RL-AdditionRqstTDD  
id-CCTrCH-Initial-DL-Power-RL-ReconfPrepTDD  
id-IPDLParameter-Information-LCR-Cell-SetupRqstTDD  
id-IPDLParameter-Information-LCR-Cell-ReconfRqstTDD  
id-HS-PDSCH-HS-SCCH-MaxPower-PSCH-ReconfRqst  
id-HS-PDSCH-HS-SCCH-ScramblingCode-PSCH-ReconfRqst  
id-HS-PDSCH-FDD-Code-Information-PSCH-ReconfRqst  
id-HS-SCCH-FDD-Code-Information-PSCH-ReconfRqst  
id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst  
id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst  
id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst  
id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst  
id-bindingID  
id-RL-Specific-DCH-Info  
id-transportlayeraddress  
id-DelayedActivation  
id-DelayedActivationList-RL-ActivationCmdFDD  
id-DelayedActivationInformation-RL-ActivationCmdFDD  
id-DelayedActivationList-RL-ActivationCmdTDD  
id-DelayedActivationInformation-RL-ActivationCmdTDD  
id-neighbouringTDDCellMeasurementInformationLCR  
id-SYNCDLCodeId-TransInitLCR-CellSyncInitiationRqstTDD  
id-SYNCDLCodeId-MeasureInitLCR-CellSyncInitiationRqstTDD  
id-SYNCDLCodeIdTransReconfInfoLCR-CellSyncReconfRqstTDD  
id-SYNCDLCodeIdMeasReconfigurationLCR-CellSyncReconfRqstTDD  
id-SYNCDLCodeIdMeasInfoList-CellSyncReconfRqstTDD  
id-SyncDLCodeIdsMeasInfoList-CellSyncReprtTDD  
id-SyncDLCodeIdThreInfoLCR  
id-NSubCyclesPerCyclePeriod-CellSyncReconfRqstTDD  
id-DwPCH-Power  
id-AccumulatedClockupdate-CellSyncReprtTDD  
id-Angle-Of-Arrival-Value-LCR  
id-HSDSCH-FDD-Information  
id-HSDSCH-FDD-Information-Response

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ProtocolIE-ID ::= 502  
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id-HSDSCH-Information-to-Modify	ProtocolIE-ID ::= 534
id-HSDSCH-RNTI	ProtocolIE-ID ::= 535
id-HSDSCH-TDD-Information	ProtocolIE-ID ::= 536
id-HSDSCH-TDD-Information-Response	ProtocolIE-ID ::= 537
id-HSPDSCH-RL-ID	ProtocolIE-ID ::= 541
id-PrimCCPCH-RSCP-DL-PC-RqstTDD	ProtocolIE-ID ::= 542
id-Qth-Parameter	ProtocolIE-ID ::= 64
id-PDSCH-RL-ID	ProtocolIE-ID ::= 66
id-HSDSCH-RearrangeList-Bearer-RearrangeInd	ProtocolIE-ID ::= 553
id-UL-Synchronisation-Parameters-LCR	ProtocolIE-ID ::= 554
id-HSDSCH-FDD-Update-Information	ProtocolIE-ID ::= 555
id-HSDSCH-TDD-Update-Information	ProtocolIE-ID ::= 556
id-DL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD	ProtocolIE-ID ::= 558
id-UL-DPCH-TimeSlotFormat-LCR-ModifyItem-RL-ReconfPrepTDD	ProtocolIE-ID ::= 559
id-TDD-TPC-UplinkStepSize-LCR-RL-SetupRqstTDD	ProtocolIE-ID ::= 560
id-TDD-TPC-UplinkStepSize-LCR-RL-AdditionRqstTDD	ProtocolIE-ID ::= 561
id-TDD-TPC-DownlinkStepSize-RL-AdditionRqstTDD	ProtocolIE-ID ::= 562
id-TDD-TPC-UplinkStepSize-InformationAdd-LCR-RL-ReconfPrepTDD	ProtocolIE-ID ::= 563
id-TDD-TPC-UplinkStepSize-InformationModify-LCR-RL-ReconfPrepTDD	ProtocolIE-ID ::= 564
id-TDD-TPC-DownlinkStepSize-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 565
id-TDD-TPC-DownlinkStepSize-InformationAdd-RL-ReconfPrepTDD	ProtocolIE-ID ::= 566
id-CCTrCH-Maximum-DL-Power-RL-SetupRqstTDD	ProtocolIE-ID ::= 567
id-CCTrCH-Minimum-DL-Power-RL-SetupRqstTDD	ProtocolIE-ID ::= 568
id-CCTrCH-Maximum-DL-Power-RL-AdditionRqstTDD	ProtocolIE-ID ::= 569
id-CCTrCH-Minimum-DL-Power-RL-AdditionRqstTDD	ProtocolIE-ID ::= 570
id-CCTrCH-Maximum-DL-Power-InformationAdd-RL-ReconfPrepTDD	ProtocolIE-ID ::= 571
id-CCTrCH-Minimum-DL-Power-InformationAdd-RL-ReconfPrepTDD	ProtocolIE-ID ::= 572
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 573
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 574
id-Maximum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 575
id-Minimum-DL-Power-Modify-LCR-InformationModify-RL-ReconfPrepTDD	ProtocolIE-ID ::= 576
id-DL-DPCH-LCR-InformationModify-ModifyList-RL-ReconfRqstTDD	ProtocolIE-ID ::= 577
id-CCTrCH-Maximum-DL-Power-InformationModify-RL-ReconfRqstTDD	ProtocolIE-ID ::= 578
id-CCTrCH-Minimum-DL-Power-InformationModify-RL-ReconfRqstTDD	ProtocolIE-ID ::= 579
id-Initial-DL-Power-TimeslotLCR-InformationItem	ProtocolIE-ID ::= 580
id-Maximum-DL-Power-TimeslotLCR-InformationItem	ProtocolIE-ID ::= 581
id-Minimum-DL-Power-TimeslotLCR-InformationItem	ProtocolIE-ID ::= 582
id-HS-DSCHProvidedBitRateValueInformation	ProtocolIE-ID ::= 583
id-HS-DSCHRequiredPowerValueInformation	ProtocolIE-ID ::= 585
id-HS-DSCHRequiredPowerValue	ProtocolIE-ID ::= 586
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHOrHS-SCCHTransmission	ProtocolIE-ID ::= 587
id-HS-SICH-Reception-Quality	ProtocolIE-ID ::= 588
id-HS-SICH-Reception-Quality-Measurement-Value	ProtocolIE-ID ::= 589
id-HSSICH-Info-DM-Rprt	ProtocolIE-ID ::= 590
id-HSSICH-Info-DM-Rqst	ProtocolIE-ID ::= 591
id-HSSICH-Info-DM-Rsp	ProtocolIE-ID ::= 592
id-Best-Cell-Portions-Value	ProtocolIE-ID ::= 593
id-Primary-CPICH-Usage-for-Channel-Estimation	ProtocolIE-ID ::= 594
id-Secondary-CPICH-Information-Change	ProtocolIE-ID ::= 595
id-NumberOfReportedCellPortions	ProtocolIE-ID ::= 596
id-CellPortion-InformationItem-Cell-SetupRqstFDD	ProtocolIE-ID ::= 597
id-CellPortion-InformationList-Cell-SetupRqstFDD	ProtocolIE-ID ::= 598
id-TimeslotISCP-LCR-InfoList-RL-ReconfPrepTDD	ProtocolIE-ID ::= 599

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id-Secondary-CPICH-Information	ProtocolIE-ID ::= 600
id-Received-total-wide-band-power-For-CellPortion	ProtocolIE-ID ::= 601
id-Unidirectional-DCH-Indicator	ProtocolIE-ID ::= 602
id-TimingAdjustmentValueLCR	ProtocolIE-ID ::= 603
id-multipleRL-dl-DPCH-InformationList	ProtocolIE-ID ::= 604
id-multipleRL-dl-DPCH-InformationModifyList	ProtocolIE-ID ::= 605
id-multipleRL-ul-DPCH-InformationList	ProtocolIE-ID ::= 606
id-multipleRL-ul-DPCH-InformationModifyList	ProtocolIE-ID ::= 607
id-RL-ID	ProtocolIE-ID ::= 608
id-SAT-Info-Almanac-ExtItem	ProtocolIE-ID ::= 609
id-HSDPA-Capability	ProtocolIE-ID ::= 610
id-HSDSCH-Resources-Information-AuditRsp	ProtocolIE-ID ::= 611
id-HSDSCH-Resources-Information-ResourceStatusInd	ProtocolIE-ID ::= 612
id-HSDSCH-MACdFlows-to-Add	ProtocolIE-ID ::= 613
id-HSDSCH-MACdFlows-to-Delete	ProtocolIE-ID ::= 614
id-HSDSCH-Information-to-Modify-Unsynchronised	ProtocolIE-ID ::= 615
id-TnlQos	ProtocolIE-ID ::= 616
id-Received-total-wide-band-power-For-CellPortion-Value	ProtocolIE-ID ::= 617
id-Transmitted-Carrier-Power-For-CellPortion	ProtocolIE-ID ::= 618
id-Transmitted-Carrier-Power-For-CellPortion-Value	ProtocolIE-ID ::= 619
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHorHS-SCCHTransmissionCellPortion	ProtocolIE-ID ::= 620
id-TransmittedCarrierPowerOfAllCodesNotUsedForHS-PDSCHorHS-SCCHTransmissionCellPortionValue	ProtocolIE-ID ::= 621
id-UpPTSInterferenceValue	ProtocolIE-ID ::= 622
id-PrimaryCCPCH-RSCP-Delta	ProtocolIE-ID ::= 623
id-MeasurementRecoveryBehavior	ProtocolIE-ID ::= 624
id-MeasurementRecoveryReportingIndicator	ProtocolIE-ID ::= 625
id-MeasurementRecoverySupportIndicator	ProtocolIE-ID ::= 626
id-Tstd-indicator	ProtocolIE-ID ::= 627
id-multiple-RL-Information-RL-ReconfPrepTDD	ProtocolIE-ID ::= 628
id-multiple-RL-Information-RL-ReconfRqstTDD	ProtocolIE-ID ::= 629
id-DL-DPCH-Power-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 630
id-F-DPCH-Information-RL-ReconfPrepFDD	ProtocolIE-ID ::= 631
id-F-DPCH-Information-RL-SetupRqstFDD	ProtocolIE-ID ::= 632
id-Additional-S-CCPCH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 633
id-Additional-S-CCPCH-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 634
id-Additional-S-CCPCH-LCR-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 635
id-Additional-S-CCPCH-LCR-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 636
id-MICH-CFN	ProtocolIE-ID ::= 637
id-MICH-Information-AuditRsp	ProtocolIE-ID ::= 638
id-MICH-Information-ResourceStatusInd	ProtocolIE-ID ::= 639
id-MICH-Parameters-CTCH-ReconfRqstFDD	ProtocolIE-ID ::= 640
id-MICH-Parameters-CTCH-ReconfRqstTDD	ProtocolIE-ID ::= 641
id-MICH-Parameters-CTCH-SetupRqstFDD	ProtocolIE-ID ::= 642
id-MICH-Parameters-CTCH-SetupRqstTDD	ProtocolIE-ID ::= 643
id-Modification-Period	ProtocolIE-ID ::= 644
id-NI-Information-NotifUpdateCmd	ProtocolIE-ID ::= 645
id-S-CCPCH-InformationListExt-AuditRsp	ProtocolIE-ID ::= 646
id-S-CCPCH-InformationListExt-ResourceStatusInd	ProtocolIE-ID ::= 647
id-S-CCPCH-LCR-InformationListExt-AuditRsp	ProtocolIE-ID ::= 648
id-S-CCPCH-LCR-InformationListExt-ResourceStatusInd	ProtocolIE-ID ::= 649
id-HARQ-Preamble-Mode	ProtocolIE-ID ::= 650
id-Initial-DL-DPCH-TimingAdjustment	ProtocolIE-ID ::= 651
id-Initial-DL-DPCH-TimingAdjustment-Allowed	ProtocolIE-ID ::= 652

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id-DLTransmissionBranchLoadValue  
id-Power-Local-Cell-Group-choice-CM-Rqst  
id-Power-Local-Cell-Group-choice-CM-Rsp  
id-Power-Local-Cell-Group-choice-CM-Rprt  
id-HSDPA-CellPortion-InformationItem-PSCH-ReconfRqst  
id-HSDPA-CellPortion-InformationList-PSCH-ReconfRqst  
id-HS-DSCHRequiredPowerValue-For-Cell-Portion  
id-HS-DSCHRequiredPowerValueInformation-For-CellPortion  
id-HS-DSCHProvidedBitRateValueInformation-For-CellPortion  
id-E-AGCH-And-E-RGCH-E-HICH-FDD-Scrambling-Code  
id-E-AGCH-FDD-Code-Information  
id-E-DCH-Capability  
id-E-DCH-FDD-DL-Control-Channel-Information  
id-E-DCH-FDD-Information  
id-E-DCH-FDD-Information-Response  
id-E-DCH-FDD-Information-to-Modify  
id-E-DCH-MACdFlows-to-Add  
id-E-DCH-MACdFlows-to-Delete  
id-E-DCH-Resources-Information-AuditRsp  
id-E-DCH-Resources-Information-ResourceStatusInd  
id-E-DCH-RL-Indication  
id-E-DCH-RL-Set-ID  
id-E-DPCH-Information-RL-ReconfPrepFDD  
id-E-DPCH-Information-RL-SetupRqstFDD  
id-E-RGCH-E-HICH-FDD-Code-Information  
id-Serving-E-DCH-RL-ID  
id-UL-DPCH-Indicator-For-E-DCH-Operation  
id-E-DPCH-Information-RL-ReconfRqstFDD

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ProtocolIE-ID ::= 653  
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# CHANGE REQUEST

# **25.434 CR 031** # rev **-** # Current version: **5.4.0** #

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

**Proposed change affects:** UICC apps#  ME  Radio Access Network  Core Network

<b>Title:</b>	# Feature Cleanup: Removal of CPCH		
<b>Source:</b>	# RAN3		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 19/04/2005
<b>Category:</b>	# <b>C</b>	<b>Release:</b>	# Rel-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>Ph2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6) <b>Rel-7</b> (Release 7)

<b>Reason for change:</b>	# At RAN Plenary #27 it was decided to remove the feature: CPCH from this version of protocol.
<b>Summary of change:</b>	# CPCH is removed from the specification.
	<b>Isolated Impact Analysis</b> Feature removed: CPCH  Isolated impact statement: Feature is removed, UE implementations are not affected. Would affect UTRAN implementations supporting the removed functionality.
<b>Consequences if not approved:</b>	# The decision taken at RAN Plenary #27 to remove this feature is violated

<b>Clauses affected:</b>	# 3.3, 5						
<b>Other specs</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> </table> Other core specifications	Y	N	X		#	25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.420, 25.423, 25.424, 25.425, 25.430, 25.433, 25.435
Y	N						
X							
<b>affected:</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">X</td> <td>Test specifications</td> </tr> <tr> <td style="width: 20px; text-align: center;">X</td> <td>O&amp;M Specifications</td> </tr> </table>	X	Test specifications	X	O&M Specifications		
X	Test specifications						
X	O&M Specifications						

**Other comments:** ☹

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

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

- 1) Fill out the above form. The symbols above marked ☹ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. 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

AAL	ATM Adaption Layer
AAL2	AAL Type 2
ATM	Asynchronous Transfer Mode
<del>CPCH</del>	<del>Common Packet Channel</del>
CPCS	Common Part Convergence Sublayer
CPS	Common Part Sublayer
DSCH	Downlink Shared Channel
FACH	Forward Access Channel
FP	Frame Protocol
HDLC	High-level Data Link Control
HS-DSCH	High Speed Downlink Shared Channel
IP	Internet Protocol
LC	Link Characteristics
PPP	Point-to-Point Protocol
PT	Path Type
RACH	Random Access Channel
RNC	Radio Network Controller
SAAL	Signalling ATM Adaption Layer
SAR	Segmentation And Reassembly
SSCF	Service Specific Co-ordination Function
SSCOP	Service Specific Connection Oriented Protocol
SSCS	Service Specific Convergence Sublayer
SSSAR	Service Specific Segmentation And Reassembly
STC	Signalling Transport Converter
UDP	User Datagram Protocol
UMTS	Universal Mobile Telecommunication Network
UNI	User-Network Interface
USCH	Uplink Shared Channel
UTRAN	UMTS Terrestrial Radio Access Network

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## 5 I<sub>ub</sub> Data Transport for Common Transport Channel Data Streams

### 5.1 Introduction

This subclause specifies the transport layers that support Common Transport Channel (FACH, RACH, ~~CPCH [FDD]~~, PCH, DSCH, HS-DSCH, USCH [TDD]) data streams.

There are two options for protocol suites for transport of RACH, ~~CPCH [FDD]~~, FACH, USCH [TDD], DSCH and HS-DSCH Iub data streams:

- 1) ATM Transport Option
- 2) IP Transport Option

The following figure 1 shows the protocol stacks of these two options:

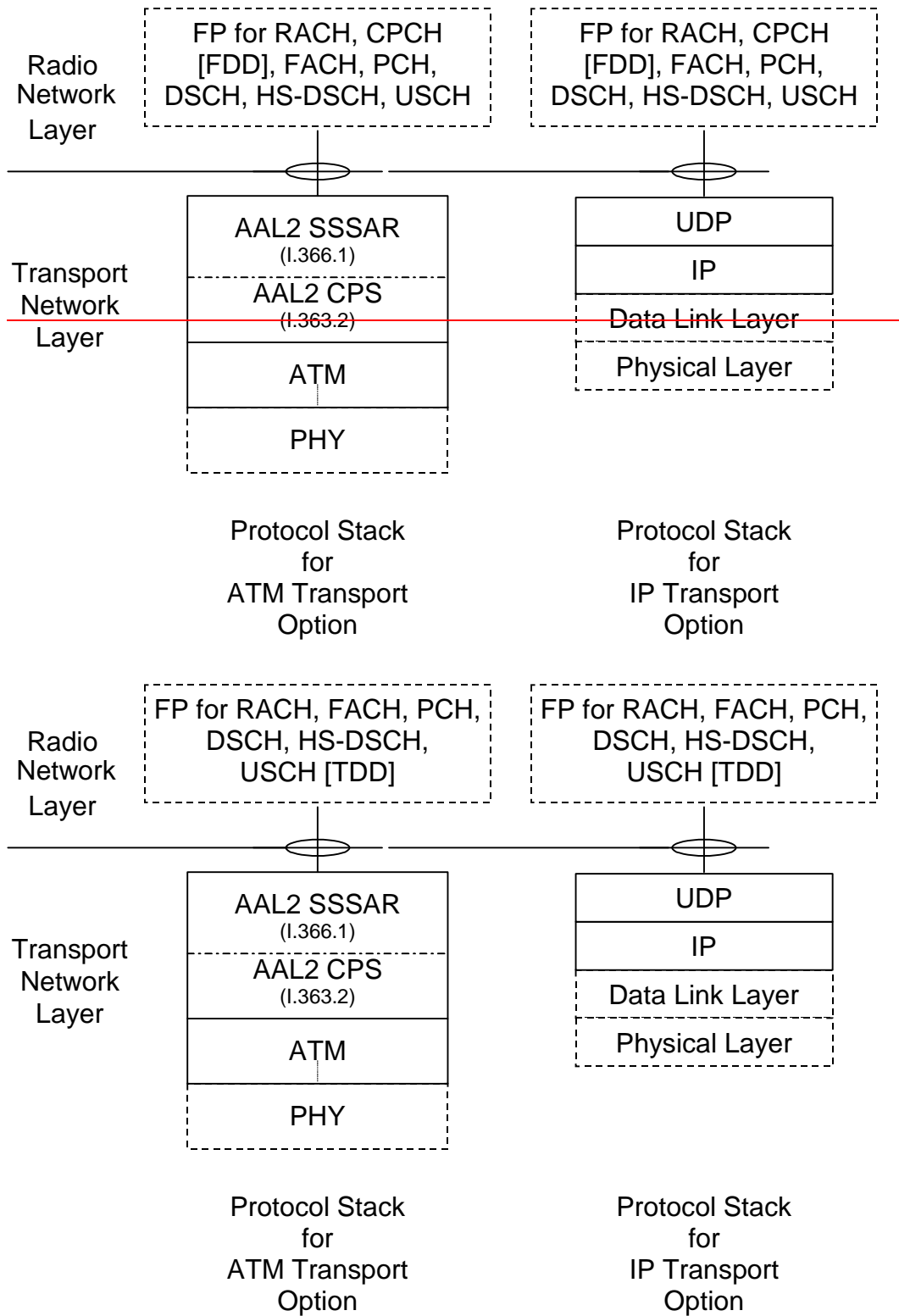


Figure 1: Protocol stack for the transport of RACH, ~~CPCH [FDD]~~, FACH, PCH, DSCH, HS-DSCH and USCH [TDD] Iub data streams

## 5.2 ATM Transport Option

ATM and AAL2 (I.363.2 [1] and I.366.1 [2]) are used at the standard transport layer for Iub RACH, ~~CPCH [FDD]~~ FACH, PCH, DSCH, HS-DSCH, USCH [TDD] data streams.



The Service Specific Segmentation and Reassembly (SSSAR) sublayer is used for the segmentation and reassembly of AAL2 SDUs (i.e. SSSAR is only considered from ITU-T Recommendation I.366.1).

## 5.3 IP Transport Option

UDP [12] over IP shall be supported as the transport for RACH, ~~CPCH [FDD]~~, FACH, PCH, DSCH, HS-DSCH and USCH [TDD] data streams on Iub Interface. The data link layer is as specified in chapter 4.2

An IP UTRAN node shall support IPv6 [13]. The support of IPv4 [14] is optional.

NOTE: This does not preclude single implementation and use of IPv4.

IP dual stack is recommended for the potential transition period from IPv4 to IPv6 in the transport network.

The transport bearer is identified by the UDP port number and the IP address (source UDP port number, destination UDP port number, source IP address, destination IP address).

IP Differentiated Services code point marking [15] shall be supported. The mapping between traffic categories and Diffserv code points shall be configurable by O&M for each traffic category. Traffic categories are implementation-specific and may be determined from the application parameters.

## CHANGE REQUEST

# **25.434 CR 032** # rev **-** # Current version: **6.1.0** #

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

**Proposed change affects:** UICC apps#  ME  Radio Access Network  Core Network

<b>Title:</b>	# Feature Cleanup: Removal of CPCH		
<b>Source:</b>	# RAN3		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 19/04/2005
<b>Category:</b>	# <b>C</b>	<b>Release:</b>	# Rel-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>Ph2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6) <b>Rel-7</b> (Release 7)

<b>Reason for change:</b>	# At RAN Plenary #27 it was decided to remove the feature: CPCH from this version of protocol.
<b>Summary of change:</b>	# CPCH is removed from the specification.
	<b>Isolated Impact Analysis</b> Feature removed: CPCH  Isolated impact statement: Feature is removed, UE implementations are not affected. Would affect UTRAN implementations supporting the removed functionality.
<b>Consequences if not approved:</b>	# The decision taken at RAN Plenary #27 to remove this feature is violated

<b>Clauses affected:</b>	# 3.3, 5						
<b>Other specs</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> </table> Other core specifications	Y	N	X		#	25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.420, 25.423, 25.424, 25.425, 25.430, 25.433, 25.435
Y	N						
X							
<b>affected:</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">X</td> <td>Test specifications</td> </tr> <tr> <td style="width: 20px; text-align: center;">X</td> <td>O&amp;M Specifications</td> </tr> </table>	X	Test specifications	X	O&M Specifications		
X	Test specifications						
X	O&M Specifications						

**Other comments:** ☹

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

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### 3.3 Abbreviations

AAL	ATM Adaption Layer
AAL2	AAL Type 2
ATM	Asynchronous Transfer Mode
<del>CPCH</del>	<del>Common Packet Channel</del>
CPCS	Common Part Convergence Sublayer
CPS	Common Part Sublayer
DSCH	Downlink Shared Channel
FACH	Forward Access Channel
FP	Frame Protocol
HDLC	High-level Data Link Control
HS-DSCH	High Speed Downlink Shared Channel
IP	Internet Protocol
LC	Link Characteristics
PPP	Point-to-Point Protocol
PT	Path Type
RACH	Random Access Channel
RNC	Radio Network Controller
SAAL	Signalling ATM Adaption Layer
SAR	Segmentation And Reassembly
SSCF	Service Specific Co-ordination Function
SSCOP	Service Specific Connection Oriented Protocol
SSCS	Service Specific Convergence Sublayer
SSSAR	Service Specific Segmentation And Reassembly
STC	Signalling Transport Converter
UDP	User Datagram Protocol
UMTS	Universal Mobile Telecommunication Network
UNI	User-Network Interface
USCH	Uplink Shared Channel
UTRAN	UMTS Terrestrial Radio Access Network

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## 5 I<sub>ub</sub> Data Transport for Common Transport Channel Data Streams

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There are two options for protocol suites for transport of RACH, ~~CPCH [FDD]~~, FACH, USCH [TDD], DSCH and HS-DSCH Iub data streams:

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The following figure 1 shows the protocol stacks of these two options:

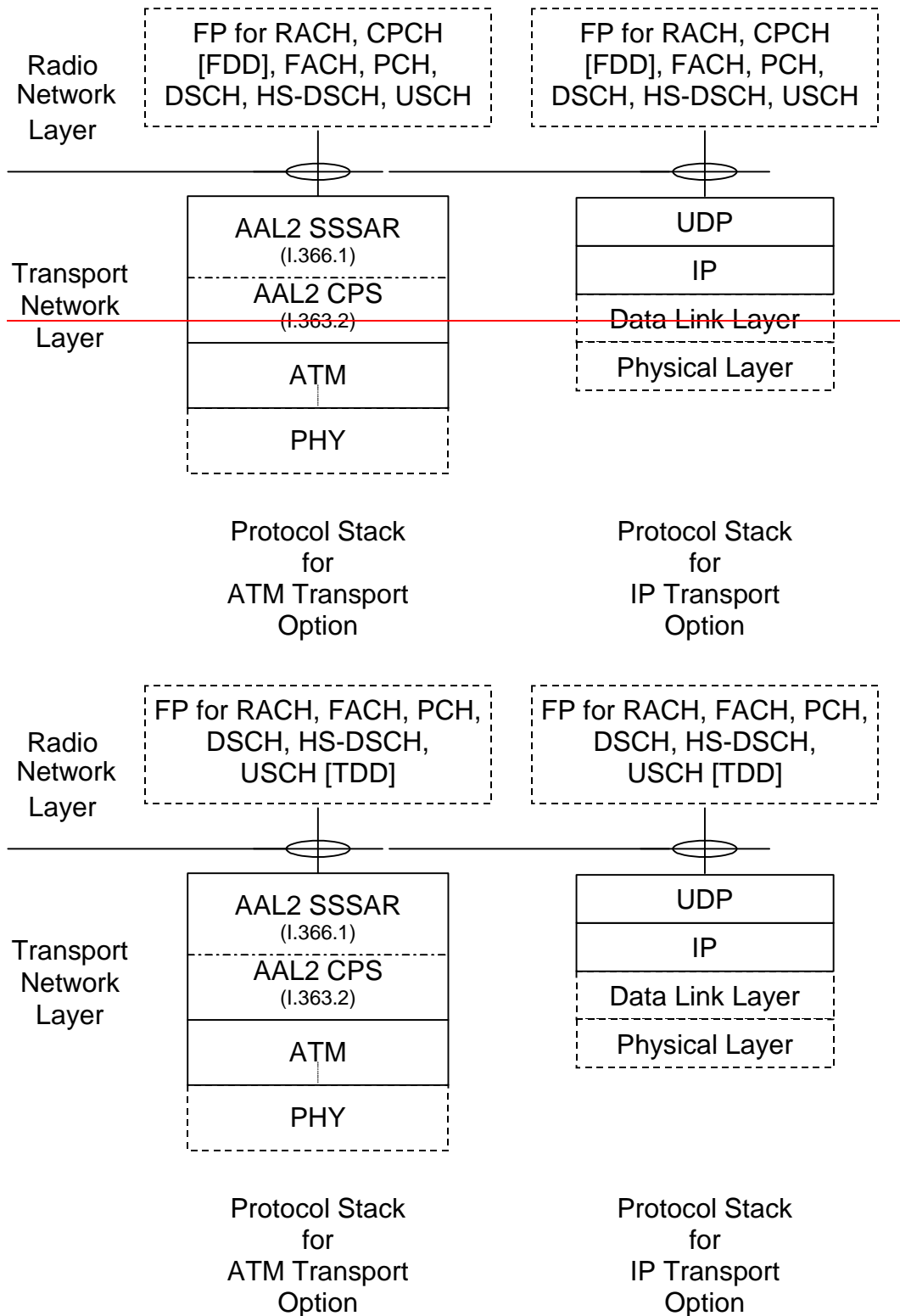


Figure 1: Protocol stack for the transport of RACH, ~~CPCH [FDD]~~, FACH, PCH, DSCH, HS-DSCH and USCH [TDD] Iub data streams

## 5.2 ATM Transport Option

ATM and AAL2 (I.363.2 [1] and I.366.1 [2]) are used at the standard transport layer for Iub RACH, ~~CPCH [FDD]~~ FACH, PCH, DSCH, HS-DSCH, USCH [TDD] data streams.

The Service Specific Segmentation and Reassembly (SSSAR) sublayer is used for the segmentation and reassembly of AAL2 SDUs (i.e. SSSAR is only considered from ITU-T Recommendation I.366.1).

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UDP [12] over IP shall be supported as the transport for RACH, ~~CPCH [FDD]~~, FACH, PCH, DSCH, HS-DSCH and USCH [TDD] data streams on Iub Interface. The data link layer is as specified in chapter 4.2

An IP UTRAN node shall support IPv6 [13]. The support of IPv4 [14] is optional.

NOTE: This does not preclude single implementation and use of IPv4.

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The transport bearer is identified by the UDP port number and the IP address (source UDP port number, destination UDP port number, source IP address, destination IP address).

IP Differentiated Services code point marking [15] shall be supported. The mapping between traffic categories and Diffserv code points shall be configurable by O&M for each traffic category. Traffic categories are implementation-specific and may be determined from the application parameters.

## CHANGE REQUEST

# **25.435 CR 137** # rev **-** # Current version: **5.7.0** #

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

**Proposed change affects:** UICC apps#  ME  Radio Access Network  Core Network

<b>Title:</b>	# Feature Cleanup: Removal of CPCH		
<b>Source:</b>	# RAN3		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 19/04/2005
<b>Category:</b>	# <b>C</b>	<b>Release:</b>	# Rel-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: <b>Ph2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6) <b>Rel-7</b> (Release 7)

<b>Reason for change:</b>	# At RAN Plenary #27 it was decided to remove the feature: CPCH from this version of protocol.
<b>Summary of change:</b>	# CPCH is removed from the specification.
	<b>Isolated Impact Analysis</b> Feature removed: CPCH  Isolated impact statement: Feature is removed, UE implementations are not affected. Would affect UTRAN implementations supporting the removed functionality.
<b>Consequences if not approved:</b>	# The decision taken at RAN Plenary #27 to remove this feature is violated

<b>Clauses affected:</b>	# 1, 3.2, 5.1.2, 5.8.1, 6.2.2,						
<b>Other specs</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> </table> Other core specifications	Y	N	X		#	25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.420, 25.423, 25.424, 25.425, 25.430, 25.433, 25.434
Y	N						
X							
<b>affected:</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">X</td> <td>Test specifications</td> </tr> <tr> <td style="width: 20px; text-align: center;">X</td> <td>O&amp;M Specifications</td> </tr> </table>	X	Test specifications	X	O&M Specifications		
X	Test specifications						
X	O&M Specifications						



**Other comments:** ☹

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---

# 1 Scope

The present document provides a description of the UTRAN RNC-Node B (Iub) interface user plane protocols for Common Transport Channel data streams as agreed within the TSG-RAN working group 3.

NOTE: By Common Transport Channel one must understand RACH, ~~CPCH/FDD~~, FACH/PCH, DSCH, USCH and HS-DSCH.

## 3.2 Abbreviations

For the purposes of the present document, the abbreviations in [2] and the following apply:

CFN	Connection Frame Number
<del>CPCH</del>	<del>Common Packet Channel</del>
CRC	Cyclic Redundancy Checksum
CRCI	CRC Indicator
DCH	Dedicated Transport Channel
DL	Downlink
DSCH	Downlink Shared Channel
FP	Frame Protocol
FT	Frame Type
HS-DSCH	High Speed Downlink Shared Channel
LTOA	Latest Time of Arrival
PC	Power Control
PDSCH	Physical Downlink Shared Channel
PUSCH	Physical Uplink Shared Channel
QE	Quality Estimate
TB	Transport Block
TBS	Transport Block Set
TFI	Transport Format Indicator
ToA	Time of Arrival
ToAWE	Time of Arrival Window Endpoint
ToAWS	Time of Arrival Window Startpoint
TTI	Transmission Time Interval
UL	Uplink
USCH	Uplink Shared Channel

### 5.1.2 CPCH Channels [FDD]Void

Data Transfer procedure is used to transfer data received from Uu interface from Node B to CRNC. Data Transfer procedure consists of a transmission of Data Frame from Node B to CRNC. Void

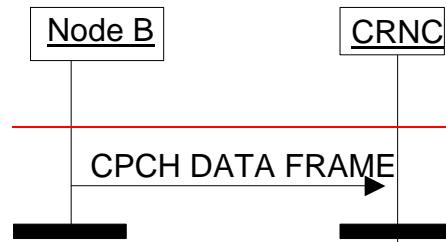


Figure 2: CPCH Data Transfer procedure

### 5.8.1 Association between transport bearer and data/control frames

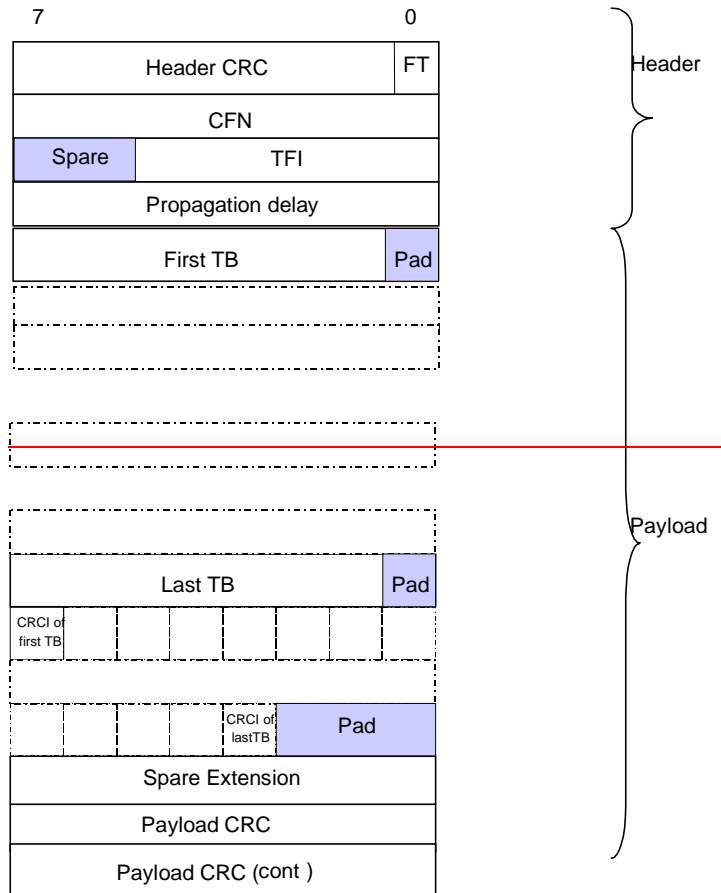
Table 1 shows how the data and control frames are associated to the transport bearers. 'yes' indicates that the control frame is applicable to the transport bearer, 'no' indicates that the control frame is not applicable to the transport bearer.

**Table 1**

Transport bearer used for	Associated data frame	Associated control frames								
		Timing Adjustment	DL Transport Channels Synchronisation	Node Synchronisation	Dynamic PUSCH Assignment	Timing Advance	DSCH TFCI Signaling	Outer Loop PC Info Xfer	HS-DSCH Capacity Request	HS-DSCH Capacity Allocation
RACH	RACH DATA FRAME	no	no	no	no	no	no	no	no	no
FACH	FACH DATA FRAME	yes	yes	yes	no	no	no	no	no	no
<del>CPCH</del>	<del>CPCH DATA FRAME</del>	<del>no</del>	<del>no</del>	<del>no</del>	<del>no</del>	<del>no</del>	<del>no</del>	<del>no</del>	<del>no</del>	<del>no</del>
PCH	PCH DATA FRAME	yes	yes	yes	no	no	no	no	no	no
DSCH	DSCH DATA FRAME	yes	yes	yes	no	no	no	no	no	no
USCH	USCH DATA FRAME	no	no	no	yes	yes	no	yes	no	no
HS-DSCH	HS-DSCH DATA FRAME	no	no	no	no	no	no	no	yes	yes
TFCI2	-	yes	yes	yes	no	no	yes	no	no	no

## 6.2.2 CPCH Channels [FDD] ~~Void~~

~~The CPCH DATA FRAME includes the CFN corresponding to the 8 least significant bits of the SFN of the frame in which the payload was received. If the payload was received in several frames, the CFN corresponding to the first Uu frame in which the information was received shall be indicated.~~ ~~Void~~



**Figure 16: CPCH DATA FRAME structure**

## CHANGE REQUEST

# **25.435 CR 138** # rev **-** # Current version: **6.1.0** #

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

**Proposed change affects:** UICC apps#  ME  Radio Access Network  Core Network

<b>Title:</b>	# Feature Cleanup: Removal of CPCH		
<b>Source:</b>	# RAN3		
<b>Work item code:</b>	# TEI5	<b>Date:</b>	# 19/04/2005
<b>Category:</b>	# <b>C</b>	<b>Release:</b>	# Rel-6
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<b>Consequences if not approved:</b>	# The decision taken at RAN Plenary #27 to remove this feature is violated

<b>Clauses affected:</b>	# 1, 3.2, 5.1.2, 5.8.1, 6.2.2,						
<b>Other specs</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> </table> Other core specifications	Y	N	X		#	25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.420, 25.423, 25.424, 25.425, 25.430, 25.433, 25.434
Y	N						
X							
<b>affected:</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">X</td> <td>Test specifications</td> </tr> <tr> <td style="width: 20px; text-align: center;">X</td> <td>O&amp;M Specifications</td> </tr> </table>	X	Test specifications	X	O&M Specifications		
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**Other comments:** ☹

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PUSCH	Physical Uplink Shared Channel
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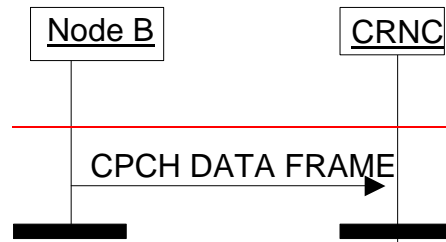


Figure 2: CPCH Data Transfer procedure

### 5.8.1 Association between transport bearer and data/control frames

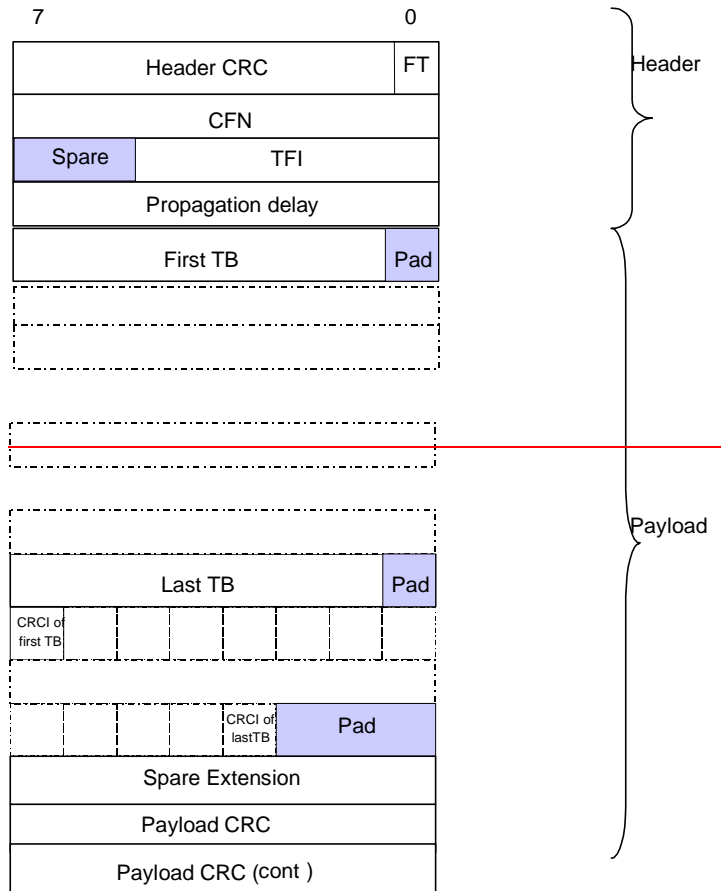
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PCH	PCH DATA FRAME	yes	yes	yes	no	no	no	no	no	no
DSCH	DSCH DATA FRAME	yes	yes	yes	no	no	no	no	no	no
USCH	USCH DATA FRAME	no	no	no	yes	yes	no	yes	no	no
HS-DSCH	HS-DSCH DATA FRAME	no	no	no	no	no	no	no	yes	yes
TFCI2	-	yes	yes	yes	no	no	yes	no	no	no

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**Figure 16: CPCH DATA FRAME structure**

3GPP TSG-RAN WG3 #47  
Athens, Greece, 9<sup>th</sup> – 13<sup>th</sup> May 2005

⌘ **R3-050739**

CR-Form-v7.1	
<b>CHANGE REQUEST</b>	
⌘ <b>25.931 CR 035</b> ⌘ rev <b>-</b> ⌘ Current version: <b>5.1.0</b> ⌘	

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

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Feature clean up: removal of CPCH		
<b>Source:</b>	⌘ RAN3		
<b>Work item code:</b>	⌘ TEI5	<b>Date:</b>	⌘ 09/05/2005
<b>Category:</b>	⌘ <b>C</b>	<b>Release:</b>	⌘ REL-5
	<i>Use <u>one</u> of the following categories:</i> <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		<i>Use <u>one</u> of the following releases:</i> <b>Ph2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6) <b>Rel-7</b> (Release 7)

<b>Reason for change:</b>	⌘ In RAN plenary #27 it was decide to remove CPCH feature
<b>Summary of change:</b>	⌘ CPCH has been deleted from the abbreviation list.
<b>Consequences if not approved:</b>	⌘ TR25.931 will contain a feature that doesn't exist anymore.

<b>Clauses affected:</b>	⌘ 3.2						
<b>Other specs</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="height: 40px;">X</td> <td></td> </tr> </table>	Y	N	X		Other core specifications	⌘ 25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.420, 25.423, 25.424, 25.425, 25.430, 25.433, 25.434, 25.435
Y	N						
X							
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## 3 Definitions, abbreviations and notation

### 3.1 Definitions

For the purposes of the present document, the terms and definitions given in [1], [2] and [4] apply.

### 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
BCFE	Broadcast Control Functional Entity
BER	Bit Error Rate
BLER	Block Error Rate
BMC	Broadcast/Multicast Control
BSS	Base Station Sub-system
BSSMAP	Base Station System Management Application Part
CCCH	Common Control Channel
CCPCH	Common Control Physical Channel
CFN	Connection Frame Number
CM	Connection Management
CN	Core Network
<del>CPCH</del>	<del>Common Packet Channel</del>
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
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DRAC	Dynamic Resource Allocation Control
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DSCH	Downlink Shared Channel
DTCH	Dedicated Traffic Channel
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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
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
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
O	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
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PRACH	Physical Random Access CHannel
PS	Packet Switched
PSCH	Physical Synchronisation Channel
P-TMSI	Packet Temporary Mobile Subscriber Identity
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
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

\*\*\*\*\* END OF MODIFICATION\*\*\*\*\*

3GPP TSG-RAN WG3 #47  
Athens, Greece, 9<sup>th</sup> – 13<sup>th</sup> May 2005

⌘ R3-050740

CR-Form-v7.1	
<b>CHANGE REQUEST</b>	
⌘ <b>25.931 CR 036</b> ⌘ rev <b>-</b> ⌘	Current version: <b>6.1.0</b> ⌘

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

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Feature clean up: removal of CPCH	
<b>Source:</b>	⌘ RAN3	
<b>Work item code:</b>	⌘ TEI5	<b>Date:</b> ⌘ 09/05/2005
<b>Category:</b>	⌘ <b>C</b>	<b>Release:</b> ⌘ REL-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .	Use <u>one</u> of the following releases: <b>Ph2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6) <b>Rel-7</b> (Release 7)

<b>Reason for change:</b>	⌘ In RAN plenary #27 it was decide to remove CPCH feature
<b>Summary of change:</b>	⌘ CPCH has been deleted from the abbreviation list.
<b>Consequences if not approved:</b>	⌘ TR25.931 will contain a feature that doesn't exist anymore.

<b>Clauses affected:</b>	⌘ 3.2					
<b>Other specs</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> </table> Other core specifications	Y	N	X		⌘ 25.101, 25.104, 25.133, 25.141, 25.201, 25.211, 25.212, 25.213, 25.214, 25.215, 25.301, 25.302, 25.303, 25.306, 25.321, 25.331, 25.401, 25.420, 25.423, 25.424, 25.425, 25.430, 25.433, 25.434, 25.435
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