

**TSG RAN Meeting #20**  
**Hämeenlinna, Finland, 3 - 6 June, 2003**

**RP-030334**

**Title** CR (Rel-5 only) to TS 25.423 and 25.433 on TDD Channelisation Code LCR correction for HSDPA  
**Source** TSG RAN WG3  
**Agenda Item** 7.3.6

RAN3 Tdoc	Spec	curr. Vers.	new Vers.	REL	CR	Rev	Cat	Title	Work item
R3-030633	25.423	5.5.0	5.6.0	REL-5	821	-	F	TDD Channelisation Code LCR correction for HSDPA	HSDPA-lublur
R3-030634	25.433	5.4.0	5.5.0	REL-5	843	-	F	TDD Channelisation Code LCR correction for HSDPA	HSDPA-lublur

## CHANGE REQUEST

# 25.423 CR 821 # rev - # Current version: 5.5.0 #

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>	# TDD Channelisation Code LCR correction for HSDPA		
<b>Source:</b>	# RAN WG3		
<b>Work item code:</b>	# HSDPA-lubblur	<b>Date:</b>	# 19/05/2003
<b>Category:</b>	# <b>F</b>		<b>Release:</b> # Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	<b>F</b> (correction)	<b>2</b> (GSM Phase 2)	
	<b>A</b> (corresponds to a correction in an earlier release)	<b>R96</b> (Release 1996)	
	<b>B</b> (addition of feature),	<b>R97</b> (Release 1997)	
	<b>C</b> (functional modification of feature)	<b>R98</b> (Release 1998)	
	<b>D</b> (editorial modification)	<b>R99</b> (Release 1999)	
	Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		<b>Rel-4</b> (Release 4)
			<b>Rel-5</b> (Release 5)
			<b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	# The modulation scheme for HSDPA (QPSK/16QAM) is selected by lower layers in the Node B. Therefore no signalling via NBAP and RNSAP is required. However the TDD Channelisation Code LCR IE contains the modulation options: QPSK and 8PSK (which is correct for LCR TDD) and the TDD Channelisation Code IE contains no modulation option. So there are elements in the TDD Channelisation Code LCR IE, which are unnecessary for signalling HSDPA for LCR TDD.
<b>Summary of change:</b>	# TDD Channelisation Code LCR is replaced by TDD Channelisation Code in tabular format, ASN.1, and procedure text for HSDPA for LCR TDD related Information Elements.
<b>Consequences if not approved:</b>	# If this CR is not approved, signalling of the modulation option for HSDPA for LCR TDD is still remaining.  Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because the modulation option for HSDPA for LCR TDD is affected. This CR has an impact under functional point of view. The impact can be considered isolated because the change affects one function namely modulation option for HSDPA for LCR TDD.

<b>Clauses affected:</b>	# 9.2.3.3ab, 9.3.4						
<b>Other specs</b>	#	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="text-align: center;">Y</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	X	<input type="checkbox"/>	# CR843 25.433 Rel-5
Y	N						
X	<input type="checkbox"/>						

<b>affected:</b>	<input checked="" type="checkbox"/>	Test specifications	
	<input checked="" type="checkbox"/>	O&M Specifications	
<b>Other comments:</b>	⌘		

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

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

### 9.2.3.3ab HS-DSCH TDD Information Response

The *HS-DSCH TDD Information Response* IE provides information for HS-DSCH that have been established or modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
<b>HS-DSCH MAC-d Flow Specific Information Response</b>		1..<maxno ofMACdFlows>			–	
>HS-DSCH MAC-d Flow ID	M		9.2.1.30O		–	
>Binding ID	O		9.2.1.3		–	
>Transport Layer Address	O		9.2.1.62		–	
>HS-DSCH Initial Capacity Allocation	O		9.2.1.30Na		–	
<b>HS-SCCH Specific Information Response</b>		0..<maxno ofHSSCC Hcodes>		Mandatory for 3.84 Mcps TDD, not applicable to 1.28 Mcps TDD	–	
>Time Slot	M		9.2.3.23			
>Midamble Shift And Burst Type	M		9.2.3.7			
>TDD Channelisation Code	M		9.2.3.19			
<b>&gt;HS-SICH Information</b>		1				
>>HS SICH ID	M		9.2.3.3ad			
>>Time Slot	M		9.2.3.23			
>>Midamble Shift And Burst Type	M		9.2.3.7			
>>TDD Channelisation Code	M		9.2.3.19			
<b>HS-SCCH Specific Information Response LCR</b>		0..<maxno ofHSSCC Hcodes>		Mandatory for 1.28 Mcps TDD, not applicable to 3.84 Mcps TDD	–	
>Time Slot LCR	M		9.2.3.24a			
>Midamble shift LCR	M		9.2.3.7A			
>First TDD Channelisation Code <del>LCR</del>	M		TDD Channelisation Code <del>LCR</del> 9.2.3.849a			
>Second TDD Channelisation Code <del>LCR</del>	M		TDD Channelisation Code <del>LCR</del> 9.2.3.849a			
<b>&gt;HS-SICH Information LCR</b>		1				
>>HS SICH ID	M		9.2.3.3ad			
>>Time Slot LCR	M		9.2.3.24a			
>>Midamble shift LCR	M		9.2.3.7A			
>>TDD Channelisation Code <del>LCR</del>	M		9.2.3.849a			
<b>HS-PDSCH Timeslot Specific Information Response</b>		0..<maxno ofDLts>		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	–	
>Time Slot	M		9.2.3.23		–	
>Midamble Shift And Burst Type	M		9.2.3.7		–	
<b>HS-PDSCH Timeslot Specific Information Response LCR</b>		0..<maxno ofDLtsLCR >		Mandatory for 1.28Mcps TDD. Not Applicable to	–	

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
				3.84Mcps TDD.		
>Time Slot LCR	M		9.2.3.24a		–	
>Midamble Shift LCR	M		9.2.3.7A		–	

Range bound	Explanation
<i>maxnoofMACdFlows</i>	Maximum number of MAC-d flows.
<i>maxnoofHSSCCHcodes</i>	Maximum number of HS-SCCH codes.
<i>maxnoofDLts</i>	Maximum number of downlink time slots per Radio Link for 3.84Mcps TDD.
<i>maxnoofDLtsLCR</i>	Maximum number of Downlink time slots per Radio Link for 1.28Mcps TDD.

/\* partly omitted \*/

### 9.3.4 Information Element Definitions

**/\* partly omitted \*/**

```

-- H

HARQ-FDD-InfoList ::= SEQUENCE (SIZE (1..maxNrOfHARQProc)) OF HARQ-FDD-InfoItem

HARQ-FDD-InfoItem ::= SEQUENCE {
    process-Memory-Size          INTEGER (1..172800,...),
    iE-Extensions                ProtocolExtensionContainer { { HARQ-FDD-InfoItem-ExtIEs } }    OPTIONAL,
    ...
}

HARQ-FDD-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HARQ-TDD-InfoList ::= SEQUENCE (SIZE (1..maxNrOfHARQProc)) OF HARQ-TDD-InfoItem

HARQ-TDD-InfoItem ::= SEQUENCE {
    process-Memory-Size          INTEGER (1..168960,...),
    iE-Extensions                ProtocolExtensionContainer { { HARQ-TDD-InfoItem-ExtIEs } }    OPTIONAL,
    ...
}

HARQ-TDD-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HCS-Prio      ::= INTEGER (0..7)
-- 0 = lowest priority, ...7 = highest priority

HSDSCH-FDD-Information ::= SEQUENCE {
    hSDSCH-MACdFlow-Specific-Info      HSDSCH-MACdFlow-Specific-InfoList,
    ue-Capabilities-InfoFDD            UE-Capabilities-InfoFDD,
    hARQ-FDD-Info                      HARQ-FDD-InfoList,
    cqiFeedback-CycleK                 CQI-Feedback-Cycle,
    cqiRepetitionFactor                CQI-RepetitionFactor          OPTIONAL,
    -- This IE shall be present if the CQI Feedback Cycle k is greater than 0
    cqiPowerOffset                     CQI-Power-Offset,
    ackNackRepetitionFactor            AckNack-RepetitionFactor,
    ackPowerOffset                    Ack-Power-Offset,
    nackPowerOffset                   Nack-Power-Offset,
    hssch-PowerOffset                 HSSCCH-PowerOffset          OPTIONAL,
    iE-Extensions                      ProtocolExtensionContainer { { HSDSCH-FDD-Information-ExtIEs } }    OPTIONAL,
    ...
}

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

```

```

}

HSDSCH-FDD-Information-Response ::= SEQUENCE {
    hSDSCH-MACdFlow-Specific-InfoList-Response      HSDSCH-MACdFlow-Specific-InfoList-Response,
    hSSCCH-Specific-InfoList-Response              HSSCCH-FDD-Specific-InfoList-Response,
    measurement-Power-Offset                       Measurement-Power-Offset          OPTIONAL,
    iE-Extensions                                  ProtocolExtensionContainer { { HSDSCH-FDD-Information-Response-ExtIEs } }
    OPTIONAL,
    ...
}

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

HSDSCH-Information-to-Modify ::= SEQUENCE {
    hSDSCH-MACdFlow-Specific-InfoList-to-Modify      HSDSCH-MACdFlow-Specific-InfoList-to-Modify          OPTIONAL,
    cqiFeedback-CycleK                               CQI-Feedback-Cycle          OPTIONAL, -- For FDD only
    cqiRepetitionFactor                             CQI-RepetitionFactor        OPTIONAL, -- For FDD only
    ackNackRepetitionFactor                         AckNack-RepetitionFactor    OPTIONAL, -- For FDD only
    cqiPowerOffset                                  CQI-Power-Offset           OPTIONAL, -- For FDD only
    ackPowerOffset                                  Ack-Power-Offset           OPTIONAL, -- For FDD only
    nackPowerOffset                                 Nack-Power-Offset          OPTIONAL, -- For FDD only
    hsscch-PowerOffset                              HSSCCH-PowerOffset         OPTIONAL, -- Only for FDD
    iE-Extensions                                  ProtocolExtensionContainer { { HSDSCH-Information-to-Modify-ExtIEs } }          OPTIONAL,
    ...
}

HSDSCH-Information-to-Modify-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-MACdFlow-ID ::= INTEGER (0..maxNrOfMACdFlows-1)

HSDSCH-MACdFlow-Specific-InfoList ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem

HSDSCH-MACdFlow-Specific-InfoItem ::= SEQUENCE {
    hSDSCH-MACdFlow-ID                             HSDSCH-MACdFlow-ID,
    allocationRetentionPriority                     AllocationRetentionPriority,
    trafficClass                                    TrafficClass,
    bindingID                                       BindingID          OPTIONAL,
    transportLayerAddress                           TransportLayerAddress          OPTIONAL,
    priorityQueue-Info                             PriorityQueue-InfoList,
    iE-Extensions                                  ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs } }          OPTIONAL,
    ...
}

HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-MACdFlow-Specific-InfoList-Response ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem-Response

```



```

HSDSCH-MACdFlow-Specific-InfoItem-Response ::= SEQUENCE {
    hSDSCH-MACdFlow-ID          HSDSCH-MACdFlow-ID,
    bindingID                   BindingID                    OPTIONAL,
    transportLayerAddress       TransportLayerAddress        OPTIONAL,
    hSDSCH-Initial-Capacity-Allocation HSDSCH-Initial-Capacity-Allocation OPTIONAL,
    iE-Extensions               ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-Response-ExtIEs } } OPTIONAL,
    ...
}

```

```

HSDSCH-MACdFlow-Specific-InfoItem-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

HSDSCH-MACdFlow-Specific-InfoList-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem-to-Modify

```

```

HSDSCH-MACdFlow-Specific-InfoItem-to-Modify ::= SEQUENCE {
    hSDSCH-MACdFlow-ID          HSDSCH-MACdFlow-ID,
    allocationRetentionPriority AllocationRetentionPriority    OPTIONAL,
    transportBearerRequestIndicator TransportBearerRequestIndicator,
    trafficClass                TrafficClass                OPTIONAL,
    bindingID                   BindingID                    OPTIONAL,
    transportLayerAddress       TransportLayerAddress        OPTIONAL,
    priorityQueue-Info-to-Modify PriorityQueue-InfoList-to-Modify OPTIONAL,
    iE-Extensions               ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs } } OPTIONAL,
    ...
}

```

```

HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

HSDSCH-Initial-Capacity-Allocation ::= SEQUENCE (SIZE (1..16)) OF HSDSCH-Initial-Capacity-AllocationItem

```

```

HSDSCH-Initial-Capacity-AllocationItem ::= SEQUENCE {
    schedulingPriorityIndicator SchedulingPriorityIndicator,
    maximum-MACdPDU-Size      MACdPDU-Size,
    hSDSCH-InitialWindowSize  HSDSCH-InitialWindowSize,
    iE-Extensions             ProtocolExtensionContainer { {HSDSCH-Initial-Capacity-AllocationItem-ExtIEs} } OPTIONAL,
    ...
}

```

```

HSDSCH-Initial-Capacity-AllocationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

HSDSCH-InitialWindowSize          ::= INTEGER (1..2047)
-- Number of MAC-d PDUs.
-- 2047 = Unlimited number of MAC-d PDUs

```

```

HSDSCH-RNTI ::= INTEGER (0..65535)

```

```

HSDSCH-TDD-Information ::= SEQUENCE {

```

```

    hSDSCH-MACdFlow-Specific-Info          HSDSCH-MACdFlow-Specific-InfoList,
    uE-Capabilities-InfoTDD                UE-Capabilities-InfoTDD,
    hARQ-TDD-InfoList                      HARQ-TDD-InfoList,
    iE-Extensions                          ProtocolExtensionContainer { { HSDSCH-TDD-Information-ExtIEs } }
    ...
}
HSDSCH-TDD-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
HSDSCH-TDD-Information-Response ::= SEQUENCE {
    hSDSCH-MACdFlow-Specific-InfoList-Response    HSDSCH-MACdFlow-Specific-InfoList-Response,
    hSSCCH-TDD-Specific-InfoList-Response        HSSCCH-TDD-Specific-InfoList-Response    OPTIONAL,
    -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
    hSSCCH-TDD-Specific-InfoList-Response-LCR    HSSCCH-TDD-Specific-InfoList-Response-LCR    OPTIONAL,
    -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
    hSPDSCH-TDD-Specific-InfoList-Response      HSPDSCH-TDD-Specific-InfoList-Response      OPTIONAL,
    hSPDSCH-TDD-Specific-InfoList-Response-LCR HSPDSCH-TDD-Specific-InfoList-Response-LCR OPTIONAL,
    iE-Extensions                              ProtocolExtensionContainer { { HSDSCH-TDD-Information-Response-ExtIEs } }
    OPTIONAL,
    ...
}
HSDSCH-TDD-Information-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
HSPDSCH-TDD-Specific-InfoList-Response ::= SEQUENCE (SIZE (1..maxNrOfDLTs)) OF HSPDSCH-TDD-Specific-InfoItem-Response
HSPDSCH-TDD-Specific-InfoItem-Response ::= SEQUENCE {
    timeslot                                TimeSlot,
    midambleShiftAndBurstType              MidambleShiftAndBurstType,
    iE-Extensions                          ProtocolExtensionContainer { { HSPDSCH-TDD-Specific-InfoItem-Response-ExtIEs } }
    OPTIONAL,
    ...
}
HSPDSCH-TDD-Specific-InfoItem-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}
HSPDSCH-TDD-Specific-InfoList-Response-LCR ::= SEQUENCE (SIZE (1.. maxNrOfDLTsLCR)) OF HSPDSCH-TDD-Specific-InfoItem-Response-LCR
HSPDSCH-TDD-Specific-InfoItem-Response-LCR ::= SEQUENCE {
    timeslotLCR                            TimeSlotLCR,
    midambleShiftLCR                       MidambleShiftLCR,
    iE-Extensions                          ProtocolExtensionContainer { { HSPDSCH-TDD-Specific-InfoItem-Response-LCR-ExtIEs } }
    OPTIONAL,
    ...
}
HSPDSCH-TDD-Specific-InfoItem-Response-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {

```

```

    ...
}

HSSCCH-FDD-Specific-InfoList-Response ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-FDD-Specific-InfoItem-Response

HSSCCH-FDD-Specific-InfoItem-Response ::= SEQUENCE {
    code-Number                INTEGER (0..127),
    iE-Extensions              ProtocolExtensionContainer { { HSSCCH-FDD-Specific-InfoItem-Response-ExtIEs } }
    OPTIONAL,
    ...
}

HSSCCH-FDD-Specific-InfoItem-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSSCCH-PowerOffset ::= INTEGER (0..255)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB

HSSCCH-TDD-Specific-InfoList-Response ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-TDD-Specific-InfoItem-Response

HSSCCH-TDD-Specific-InfoItem-Response ::= SEQUENCE {
    timeslot                   TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tDD-ChannelisationCode     TDD-ChannelisationCode,
    hSSICH-Info                HSSICH-Info,
    iE-Extensions              ProtocolExtensionContainer { { HSSCCH-TDD-Specific-InfoItem-Response-ExtIEs } }
    OPTIONAL,
    ...
}

HSSCCH-TDD-Specific-InfoItem-Response-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSSCCH-TDD-Specific-InfoList-Response-LCR ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-TDD-Specific-InfoItem-Response-LCR

HSSCCH-TDD-Specific-InfoItem-Response-LCR ::= SEQUENCE {
    timeslotLCR                TimeSlotLCR,
    midambleShiftLCR           MidambleShiftLCR,
    first-TDD-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
    second-TDD-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
    hSSICH-InfoLCR             HSSICH-InfoLCR,
    iE-Extensions              ProtocolExtensionContainer { { HSSCCH-TDD-Specific-InfoItem-Response-LCR-ExtIEs } }
    OPTIONAL,
    ...
}

HSSCCH-TDD-Specific-InfoItem-Response-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

HSSICH-Info ::= SEQUENCE {
    hsSICH-ID                HS-SICH-ID,
    timeslot                 TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tDD-ChannelisationCode   TDD-ChannelisationCode,
    iE-Extensions            ProtocolExtensionContainer { { HSSICH-Info-ExtIEs } } OPTIONAL,
    ...
}

HSSICH-Info-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSSICH-InfoLCR ::= SEQUENCE {
    hsSICH-ID                HS-SICH-ID,
    timeslotLCR              TimeSlotLCR,
    midambleShiftLCR         MidambleShiftLCR,
    tDD-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
    iE-Extensions            ProtocolExtensionContainer { { HSSICH-Info-LCR-ExtIEs } } OPTIONAL,
    ...
}

HSSICH-Info-LCR-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SICH-Reception-Quality-Value ::= SEQUENCE {
    failed-HS-SICH           HS-SICH-failed,
    missed-HS-SICH           HS-SICH-missed,
    total-HS-SICH            HS-SICH-total,
    iE-Extensions            ProtocolExtensionContainer { { HS-SICH-Reception-Quality-Value-ExtIEs } } OPTIONAL,
    ...
}

HS-SICH-Reception-Quality-Value-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SICH-failed ::= INTEGER (0..20)

HS-SICH-missed ::= INTEGER (0..20)

HS-SICH-total ::= INTEGER (0..20)

HS-SICH-Reception-Quality-Measurement-Value ::= INTEGER (0..20)
-- According to mapping in [23]

HS-SICH-ID ::= INTEGER (0..31)

HSSCCH-CodeChangeIndicator ::= ENUMERATED {
    hsSCCHCodeChangeNeeded
}

```

```

HSDSCH-FDD-Update-Information ::= SEQUENCE {
    hsSCCHCodeChangeIndicator          HSSCCH-CodeChangeIndicator          OPTIONAL,
    cqiFeedback-CycleK                 CQI-Feedback-Cycle                 OPTIONAL,
    cqiRepetitionFactor                 CQI-RepetitionFactor               OPTIONAL,
    ackNackRepetitionFactor             AckNack-RepetitionFactor           OPTIONAL,
    cqiPowerOffset                     CQI-Power-Offset                   OPTIONAL,
    ackPowerOffset                     Ack-Power-Offset                   OPTIONAL,
    nackPowerOffset                    Nack-Power-Offset                   OPTIONAL,
    iE-Extensions                      ProtocolExtensionContainer { { HSDSCH-FDD-Update-Information-ExtIEs } } OPTIONAL,
    ...
}

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

HSDSCH-TDD-Update-Information ::= SEQUENCE {
    hsSCCHCodeChangeIndicator          HSSCCH-CodeChangeIndicator          OPTIONAL,
    iE-Extensions                      ProtocolExtensionContainer { { HSDSCH-TDD-Update-Information-ExtIEs } } OPTIONAL,
    ...
}

HSDSCH-TDD-Update-Information-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

## CHANGE REQUEST

# 25.433 CR 843 # rev - # Current version: 5.4.0 #

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<b>Category:</b>	# <b>F</b>	<b>Release:</b>	# Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
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	<b>A</b> (corresponds to a correction in an earlier release)		R96 (Release 1996)
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	Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Rel-4 (Release 4)
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<b>Reason for change:</b>	# The modulation scheme for HSDPA (QPSK/16QAM) is selected by lower layers in the Node B. Therefore no signalling via NBAP and RNSAP is required. However the TDD Channelisation Code LCR IE contains the modulation options: QPSK and 8PSK (which are correct for LCR TDD) and the TDD Channelisation Code IE contains no modulation option. So there are elements in the TDD Channelisation Code LCR IE, which are unnecessary for signalling HSDPA for LCR TDD.
<b>Summary of change:</b>	# TDD Channelisation Code LCR is replaced by TDD Channelisation Code in tabular format, ASN.1, and procedure text for HSDPA for LCR TDD related Information Elements.
<b>Consequences if not approved:</b>	# If this CR is not approved, signalling of the modulation option for HSDPA for LCR TDD is still remaining.  Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has isolated impact with the previous version of the specification (same release) because the modulation option for HSDPA for LCR TDD is affected. This CR has an impact under functional point of view. The impact can be considered isolated because the change affects one function namely modulation option for HSDPA for LCR TDD.

<b>Clauses affected:</b>	# 8.2.18.2, 9.1.62.2, 9.2.3.5G, 9.3.3, 9.3.4						
<b>Other specs</b>	#	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="text-align: center;">Y</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	X	<input type="checkbox"/>	# CR821 25.423 Rel-5
Y	N						
X	<input type="checkbox"/>						

<b>affected:</b>	<input checked="" type="checkbox"/>	Test specifications	
	<input checked="" type="checkbox"/>	O&M Specifications	
<b>Other comments:</b>	⌘		

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

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

## 8.2.18 Physical Shared Channel Reconfiguration

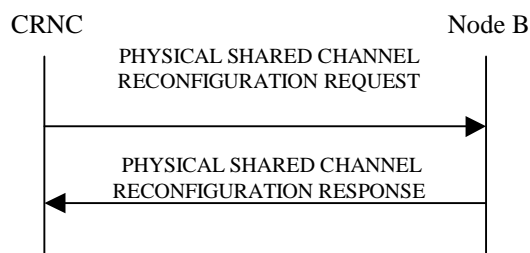
### 8.2.18.1 General

This procedure is used to assign HS-DSCH related resources to the Node B.

[TDD - This procedure is also used for handling PDSCH Sets and PUSCH Sets in the Node B, i.e.

- Adding new PDSCH Sets and/or PUSCH Sets,
- Modifying these, and
- Deleting them.]

### 8.2.18.2 Successful Operation



**Figure 26: Physical Shared Channel Reconfiguration, Successful Operation**

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

If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes an *SFN* IE, the Node B shall activate the new configuration on that specified SFN.

#### HS-DSCH Resources:

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH and HS-SCCH Total Power* IE, the Node B shall not exceed this maximum transmission power on all HS-PDSCH and HS-SCCH codes in the cell. If a value has never been set or if the value of the *HS-PDSCH Total Power* IE is equal to or greater than the maximum transmission power of the cell the Node B may use all unused power for HS-PDSCH and HS-SCCH codes.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH and HS-SCCH Scrambling Code* IE, the Node B shall use this as the scrambling code for all HS-PDSCHs and HS-SCCHs. If a value has never been set, the Node B shall use the primary scrambling code for all HS-PDSCH and HS-SCCH codes.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH FDD Code Information* IE, the Node B shall:

- If the *HS-PDSCH FDD Code Information* IE contains no code, delete any existing HS-PDSCH resources from the cell.
- If the *HS-PDSCH FDD Code Information* IE contains one or more codes and HS-PDSCH resources are not currently configured in the cell, use this list as the range of codes for HS-PDSCH channels.
- If the *HS-PDSCH FDD Code Information* IE contains one or more codes and HS-PDSCH resources are currently configured in the cell, replace the current range of codes with this new range of codes for HS-PDSCH channels.]

[FDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-SCCH FDD Code Information* IE, the Node B shall:



- If the *HS-SCCH FDD Code Information* IE contains no code, delete any existing HS-SCCH resources from the cell.
- If the *HS-SCCH FDD Code Information* IE contains one or more codes and HS-SCCH resources are not currently configured in the cell, use this list of codes as the list of codes for HS-SCCH channels.
- If the *HS-SCCH FDD Code Information* IE contains one or more codes and HS-SCCH resources are currently configured in the cell, replace the current list of codes with this new list of codes for HS-SCCH channels.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-SCCH Maximum Power* IE, the Node B shall not exceed this power for each HS-SCCH code.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *HS-PDSCH TDD Information* IE, the Node B shall:

- If the *HS-PDSCH TDD Information* IE contains no [3.84 Mcps TDD - *DL Timeslot and Code Information* IE] [1.28 Mcps TDD - *DL Timeslot and Code Information LCR* IE], delete any existing HS-PDSCH resources from the cell.
- If the *HS-PDSCH TDD Information* IE contains [3.84 Mcps TDD - *DL Timeslot and Code Information* IE] [1.28 Mcps TDD - *DL Timeslot and Code Information LCR* IE] and HS-PDSCH resources are not currently configured in the cell, use this IE as the list of timeslots / codes for HS-PDSCH channels.
- If the *HS-PDSCH TDD Information* IE contains [3.84 Mcps TDD - *DL Timeslot and Code Information* IE] [1.28 Mcps TDD - *DL Timeslot and Code Information LCR* IE] and HS-PDSCH resources are currently configured in the cell, replace the current list of timeslots / codes with this new list of timeslots / codes for HS-PDSCH channels.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes *Add to HS-SCCH Resource Pool* IE, the Node B shall add this resource to the HS-SCCH resource pool to be used to assign HS-SCCH sets.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Modify HS-SCCH Resource Pool* IEs and includes any of [3.84Mcps TDD - *TDD Channelisation Code* IE, *Midamble shift and burst type* IE, *Time Slot* IE], [1.28Mcps TDD - *First TDD Channelisation Code* ~~LCR~~ IE, *Second TDD Channelisation Code* ~~LCR~~ IE, *Midamble shift LCR* IE, *Time Slot LCR* IE], for either HS-SCCH or HS-SICH channels, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any *Delete from HS-SCCH Resource Pool* IEs, the Node B shall delete these resources from the HS-SCCH resource pool.]

**[TDD - PDSCH/PUSCH Addition]:**

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any PDSCH sets or PUSCH sets to be added, the Node B shall add these new sets to its PDSCH/PUSCH configuration.]

**[TDD - PDSCH/PUSCH Modification]:**

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any PDSCH sets or PUSCH sets to be modified, and includes any of [3.84Mcps TDD - *DL/UL Code Information* IE, *Midamble Shift And Burst Type* IE, *Time Slot* IE], [1.28Mcps TDD - *DL/UL Code Information LCR* IE, *Midamble Shift LCR* IE, *Time Slot LCR* IE], *TDD Physical Channel Offset* IE, *Repetition Period* IE, *Repetition Length* IE, or *TFCI Presence* IE, the Node B shall apply these as the new values, otherwise the old values specified for this set are still applicable.]

**[TDD - PDSCH/PUSCH Deletion]:**

[TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message includes any PDSCH sets or PUSCH sets to be deleted the Node B shall delete these sets from its PDSCH/PUSCH configuration.]

**[1.28Mcps TDD – Uplink Synchronisation Parameters LCR]:**

[1.28Mcps TDD - If the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message contains the *Uplink Synchronisation Parameters LCR* IE, the Node B shall use the indicated values of *Uplink Synchronisation Stepsize* IE and *Uplink Synchronisation Frequency* IE when evaluating the timing of the UL synchronisation.]

**Response Message:****HS-DSCH/HS-SCCH Resources:**

In the successful case involving HS-PDSCH or HS-SCCH resources, the Node B shall make these resources available to all the current and future HS-DSCH transport channels; and shall respond with PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message.

**[TDD - PDSCH/PUSCH Addition/Modification/Deletion]:**

[TDD - In the successful case involving PDSCH/PUSCH addition, modification or deletion, the Node B shall add, modify and delete the PDSCH Sets and PUSCH Sets in the Common Transport Channel data base, as requested in the PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST message, and shall make these available to all the current and future DSCH and USCH transport channels. The Node B shall respond with the PHYSICAL SHARED CHANNEL RECONFIGURATION RESPONSE message.]

/\* partly omitted \*/

**9.1.62 PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST**

/\* partly omitted \*/

**9.1.62.2 TDD Message**

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Discriminator	M		9.2.1.45		–	
Message Type	M		9.2.1.46		YES	reject
Transaction ID	M		9.2.1.62		–	
C-ID	M		9.2.1.9		YES	reject
SFN	O		9.2.1.53A		YES	reject
<b>PDSCH Sets To Add</b>		<i>0..&lt;maxno of PDSCH Sets&gt;</i>			GLOBAL	reject
>PDSCH Set ID	M		9.2.3.11		–	
<b>&gt;PDSCH To Add Information</b>		<i>0..1</i>		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	reject
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD Physical Channel Offset	M		9.2.3.20		–	
<b>&gt;&gt;DL Timeslot Information</b>		<i>1..&lt;maxno of DLts&gt;</i>			–	
>>>Time Slot	M		9.2.3.23		–	
>>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>>TFCI Presence	M		9.2.1.57		–	
<b>&gt;&gt;&gt;DL Code Information</b>		<i>1..&lt;maxno of PDSCHs &gt;</i>			–	
>>>>PDSCH ID	M		9.2.3.10		–	
>>>>TDD Channelisation Code	M		9.2.3.19		–	
<b>&gt;PDSCH To Add Information LCR</b>		<i>0..1</i>		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject

>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD Physical Channel Offset	M		9.2.3.20		–	
<b>&gt;&gt;DL Timeslot Information LCR</b>		<i>1..&lt;maxno ofDLtsLCR &gt;</i>			–	
>>>Time Slot LCR	M		9.2.3.24A		–	
>>>Midamble Shift LCR	M		9.2.3.7A		–	
>>>TFCI Presence	M		9.2.1.57		–	
<b>&gt;&gt;&gt;DL Code Information LCR</b>		<i>1..&lt;maxno ofPDSCHs &gt;</i>			–	
>>>>PDSCH ID	M		9.2.3.10		–	
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		–	
<b>PDSCH Sets To Modify</b>		<i>0..&lt;maxno of PDSCHSets&gt;</i>			GLOBAL	reject
>PDSCH Set ID	M		9.2.3.11		–	
<b>&gt;PDSCH To Modify Information</b>		<i>0..1</i>		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	reject
>>Repetition Period	O		9.2.3.16		–	
>>Repetition Length	O		9.2.3.15		–	
>>TDD Physical Channel Offset	O		9.2.3.20		–	
<b>&gt;&gt;DL Timeslot Information</b>		<i>0..&lt;maxno ofDLts&gt;</i>			–	
>>>Time Slot	M		9.2.3.23		–	
>>>Midamble Shift And Burst Type	O		9.2.3.7		–	
>>>TFCI Presence	O		9.2.1.57		–	
<b>&gt;&gt;&gt;DL Code Information</b>		<i>0..&lt;maxno ofPDSCHs &gt;</i>			–	
>>>>PDSCH ID	M		9.2.3.10		–	
>>>>TDD Channelisation Code	M		9.2.3.19		–	
<b>&gt;PDSCH To Modify Information LCR</b>		<i>0..1</i>		Mandatory for 1.28 Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>Repetition Period	O		9.2.3.16		–	
>>Repetition Length	O		9.2.3.15		–	
>>TDD Physical Channel Offset	O		9.2.3.20		–	
<b>&gt;&gt;DL Timeslot Information LCR</b>		<i>0..&lt;maxno ofDLtsLCR &gt;</i>			–	
>>>Time Slot LCR	M		9.2.3.24A		–	
>>>Midamble Shift LCR	O		9.2.3.7A		–	
>>>TFCI Presence	O		9.2.1.57		–	
<b>&gt;&gt;&gt;DL Code Information LCR</b>		<i>0..&lt;maxno ofPDSCHs &gt;</i>			–	
>>>>PDSCH ID	M		9.2.3.10		–	

>>>>TDD Channelisation Code LCR	M		9.2.3.19a		–	
<b>PDSCH Sets To Delete</b>		0..<maxno of PDSCHSe ts>			GLOBAL	reject
>PDSCH Set ID	M		9.2.3.11		–	
<b>PUSCH Sets To Add</b>		0..<maxno of PUSCHSe ts>			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		–	
<b>&gt;PUSCH To Add Information</b>		0..1		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	YES	reject
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD Physical Channel Offset	M		9.2.3.20		–	
<b>&gt;&gt;UL Timeslot Information</b>		1..<maxno ofULts>			–	
>>>Time Slot	M		9.2.3.23		–	
>>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>>TFCI Presence	M		9.2.1.57		–	
<b>&gt;&gt;&gt;UL Code Information</b>		1..<maxno ofPUSCHs >			–	
>>>>PUSCH ID	M		9.2.3.12		–	
>>>>TDD Channelisation Code	M		9.2.3.19		–	
<b>&gt;PUSCH To Add Information LCR</b>		0..1		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	YES	reject
>>Repetition Period	M		9.2.3.16		–	
>>Repetition Length	M		9.2.3.15		–	
>>TDD Physical Channel Offset	M		9.2.3.20		–	
<b>&gt;&gt;UL Timeslot Information LCR</b>		1..<maxno ofULtsLCR >			–	
>>>Time Slot LCR	M		9.2.3.24A		–	
>>>Midamble Shift LCR	M		9.2.3.7A		–	
>>>TFCI Presence	M		9.2.1.57		–	
<b>&gt;&gt;&gt;UL Code Information LCR</b>		1..<maxno ofPUSCHs LCR>			–	
>>>>PUSCH ID	M		9.2.3.12		–	
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		–	
<b>PUSCH Sets To Modify</b>		0..<maxno of PUSCHSe ts>			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		–	

<b>&gt;PUSCH To Modify Information</b>		0..1		Applicable to 3.84Mcps TDD only	YES	reject
>>Repetition Period	O		9.2.3.16		–	
>>Repetition Length	O		9.2.3.15		–	
>>TDD Physical Channel Offset	O		9.2.3.20		–	
<b>&gt;&gt;UL Timeslot Information</b>		0..<maxno ofULts>			–	
>>>Time Slot	M		9.2.3.23		–	
>>>Midamble Shift And Burst Type	O		9.2.3.7		–	
>>>TFCI Presence	O		9.2.1.57		–	
<b>&gt;&gt;&gt;UL Code Information</b>		0..<maxno ofPUSCHs >			–	
>>>>PUSCH ID	M		9.2.3.12		–	
>>>>TDD Channelisation Code	M		9.2.3.19		–	
<b>&gt;PUSCH To Modify Information LCR</b>		0..1		Applicable to 1.28Mcps TDD only	YES	reject
>>Repetition Period	O		9.2.3.16		–	
>>Repetition Length	O		9.2.3.15		–	
>>TDD Physical Channel Offset	O		9.2.3.20		–	
<b>&gt;&gt;UL Timeslot Information LCR</b>		0..<maxno ofULtsLCR >		Applicable to 1.28Mcps TDD only	–	
>>>Time Slot LCR	M		9.2.3.24A		–	
>>>Midamble Shift LCR	O		9.2.3.7A		–	
>>>TFCI Presence	O		9.2.1.57		–	
<b>&gt;&gt;&gt;UL Code Information LCR</b>		0..<maxno ofPUSCHs LCR>			–	
>>>>PUSCH ID	M		9.2.3.12		–	
>>>>TDD Channelisation Code LCR	M		9.2.3.19a		–	
<b>PUSCH Sets To Delete</b>		0..<maxno ofPUSCH Sets>			GLOBAL	reject
>PUSCH Set ID	M		9.2.3.13		–	
<b>HS-PDSCH TDD Information</b>		0..1			GLOBAL	reject
<b>&gt;DL Timeslot and Code Information</b>		0..<maxno ofDLts>		Mandatory for 3.84Mcps TDD. Not Applicable to 1.28Mcps TDD.	–	
>>Time Slot	M		9.2.3.23		–	
>>Midamble Shift And Burst Type	M		9.2.3.7		–	
<b>&gt;&gt;Codes</b>		1..<maxno ofHSPDS CHs>			–	
>>>TDD Channelisation Code	M		9.2.3.19		–	

<b>&gt;DL Timeslot and Code Information LCR</b>		<i>0..&lt;maxno ofDLtsLCR &gt;</i>		Mandatory for 1.28Mcps TDD. Not Applicable to 3.84Mcps TDD.	–	
>>Time Slot LCR	M		9.2.3.24a		–	
>>Midamble Shift LCR	M		9.2.3.7A		–	
<b>&gt;&gt;Codes LCR</b>		<i>1..&lt;maxno ofHSPDS CHs&gt;</i>			–	
>>>TDD Channelisation Code	M		9.2.3.19		–	
<b>Add to HS-SCCH Resource Pool</b>		<i>0..1</i>			GLOBAL	reject
<b>&gt;HS-SCCH Information</b>		<i>0..&lt;maxno ofHSSCC Hs&gt;</i>		Applicable to 3.84Mcps TDD only	–	
>>HS-SCCH ID	M		9.2.3.5Ga		–	
>>Time Slot	M		9.2.3.23		–	
>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>TDD Channelisation Code	M		9.2.3.19		–	
>>Maximum HS-SCCH Power	M		DL Power 9.2.1.21		–	
<b>&gt;&gt;HS-SICH Information</b>		<i>1</i>			–	
>>>HS-SICH ID	M		9.2.3.5Gb		–	
>>>Time Slot	M		9.2.3.23		–	
>>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>>TDD Channelisation Code	M		9.2.3.19		–	
<b>&gt;HS-SCCH Information LCR</b>		<i>0..&lt;maxno ofHSSCC Hs&gt;</i>		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>>HS-SCCH ID	M		9.2.3.5Ga		–	
>>Time Slot LCR	M		9.2.3.24a		–	
>>Midamble Shift LCR	M		9.2.3.7A		–	
>>First TDD Channelisation Code <b>LCR</b>	M		TDD Channelisation Code <b>LCR</b> 9.2.3.19a		–	
>>Second TDD Channelisation Code <b>LCR</b>	M		TDD Channelisation Code <b>LCR</b> 9.2.3.19a		–	
>>Maximum HS-SCCH Power	M		DL Power 9.2.1.21		–	
<b>&gt;&gt;HS-SICH Information LCR</b>		<i>1</i>			–	
>>>HS-SICH ID	M		9.2.3.5Gb		–	
>>>Time Slot LCR	M		9.2.3.24a		–	
>>>Midamble Shift LCR	M		9.2.3.7A		–	
>>>TDD Channelisation Code <b>LCR</b>	M		9.2.3.19a		–	

<b>Modify HS-SCCH Resource Pool</b>		0..1			GLOBAL	reject
<b>&gt;HS-SCCH Information</b>		0..<maxno of HSSCC Hs>		Applicable to 3.84Mcps TDD only	--	
>>HS-SCCH ID	M		9.2.3.5Ga		--	
>>Time Slot	O		9.2.3.23		--	
>>Midamble Shift And Burst Type	O		9.2.3.7		--	
>>TDD Channelisation Code	O		9.2.3.19		--	
>>Maximum HS-SCCH Power	O		DL Power 9.2.1.21		--	
<b>&gt;&gt;HS-SICH Information</b>		0..1			--	
>>>HS-SICH ID	M		9.2.3.5Gb		--	
>>>Time Slot	O		9.2.3.23		--	
>>>Midamble Shift And Burst Type	O		9.2.3.7		--	
>>>TDD Channelisation Code	O		9.2.3.19		--	
<b>&gt;HS-SCCH Information LCR</b>		0..<maxno of HSSCC Hs>		Applicable to 1.28Mcps TDD only	GLOBAL	reject
>>HS-SCCH ID	M		9.2.3.5Ga		--	
>>Time Slot LCR	O		9.2.3.24a		--	
>>Midamble Shift LCR	O		9.2.3.7A		--	
>>First TDD Channelisation Code <del>LCR</del>	O		TDD Channelisation Code <del>LCR</del> 9.2.3.19a		--	
>>Second TDD Channelisation Code <del>LCR</del>	O		TDD Channelisation Code <del>LCR</del> 9.2.3.19a			
>>Maximum HS-SCCH Power	O		DL Power 9.2.1.21		--	
<b>&gt;&gt;HS-SICH Information LCR</b>		0..1			--	
>>>HS-SICH ID	M		9.2.3.5Gb		--	
>>>Time Slot LCR	O		9.2.3.24a		--	
>>Midamble Shift LCR	O		9.2.3.7A		--	
>>>TDD Channelisation Code <del>LCR</del>	O		9.2.3.19a		--	
<b>Delete from HS-SCCH Resource Pool</b>		0..<maxno of HSSCCHs >			GLOBAL	reject
>HS-SCCH ID	M		9.2.3.5Ga		--	

Range Bound	Explanation
maxnoofPDSCHSets	Maximum number of PDSCH Sets in a cell.
maxnoofPDSCHs	Maximum number of PDSCH in a cell.
maxnoofPUSCHSets	Maximum number of PUSCH Sets in a cell.
maxnoofPUSCHs	Maximum number of PUSCH in a cell.
maxnoofDLts	Maximum number of Downlink time slots in a cell for 3.84Mcps TDD.
maxnoofULts	Maximum number of Uplink time slots in a cell for 3.84Mcps TDD.
maxnoofULtsLCR	Maximum number of Uplink time slots in a cell for 1.28Mcps TDD
maxnoofHSSCCHs	Maximum number of HS-SCCHs in a Cell

<i>maxnoofHSPDSCHs</i>	Maximum number of HS-PDSCHs in one time slot of a Cell
------------------------	--

/\* partly omitted \*/

### 9.2.3.5G HS-DSCH TDD Information Response

The HS-DSCH TDD Information Response provides information for HS-DSCH MAC-d flows that have been established or modified.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
<b>HS-DSCH MAC-d Flow Specific Information Response</b>		<i>1..&lt;max noofMA CdFlows&gt;</i>			–	
>HS-DSCH MAC-d Flow ID	M		9.2.1.31l		–	
>Binding ID	O		9.2.1.4		–	
>Transport Layer Address	O		9.2.1.63		–	
> HS-DSCH Initial Capacity Allocation	O		9.2.1.31Ha		–	
<b>HS-SCCH Specific Information Response</b>		<i>0..&lt;max NoOfHS SCCHcodes&gt;</i>		Mandatory for 3.84 Mcps TDD, not applicable to 1.28 Mcps TDD	GLOBAL	reject
>Time Slot	M		9.2.3.23		–	
>Midamble Shift And Burst Type	M		9.2.3.7		–	
>TDD Channelisation Code	M		9.2.3.19		–	
<b>&gt;HS-SICH Information</b>		<i>1</i>			–	
>>HS SICH ID	M		9.2.3.5Gb		–	
>>Time Slot	M		9.2.3.23		–	
>>Midamble Shift And Burst Type	M		9.2.3.7		–	
>>TDD Channelisation Code	M		9.2.3.19		–	
<b>HS-SCCH Specific Information Response LCR</b>		<i>0..&lt;max NoOfHS SCCHcodes&gt;</i>		Mandatory for 1.28 Mcps TDD, not applicable to 3.84 Mcps TDD	GLOBAL	reject
>Time Slot LCR	M		9.2.3.24A		–	
>Midamble Shift LCR	M		9.2.3.7a		–	
>First TDD Channelisation Code <b>LCR</b>	M		TDD Channelisation Code <b>LCR</b> 9.2.3.19a		–	
>Second TDD Channelisation Code <b>LCR</b>	M		TDD Channelisation Code <b>LCR</b> 9.2.3.19a		–	
<b>&gt;HS-SICH Information LCR</b>		<i>1</i>			–	
>>HS SICH ID	M		9.2.3.5Gb		–	
>>Time Slot LCR	M		9.2.3.24A		–	
>>Midamble Shift LCR	M		9.2.3.7a		–	
>>TDD Channelisation Code <b>LCR</b>	M		9.2.3.19a		–	



<b>Range Bound</b>	<b>Explanation</b>
<i>maxnoofMACdFlows</i>	Maximum number of HS-DSCH MAC-d flows.
<i>maxnoofPrioQueues</i>	Maximum number of Priority Queues
<i>maxnoofMACdPDUindexes</i>	Maximum number of different MAC-d Size Indexes (SIDs)
<i>maxnoofHSSCCHcodes</i>	Maximum number of HS-SCCH codes

*/\* partly omitted \*/*

## 9.3.3 PDU Definitions

/\* partly omitted \*/

```

-- *****
--
-- PHYSICAL SHARED CHANNEL RECONFIGURATION REQUEST TDD
--
-- *****

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

PhysicalSharedChannelReconfigurationRequestTDD-IEs NBAP-PROTOCOL-IES ::= {
    { ID      id-C-ID          CRITICALITY    reject          TYPE      C-ID
      PRESENCE mandatory      } |
    { ID      id-SFN          CRITICALITY    reject          TYPE      SFN
      PRESENCE optional      } |
    { ID      id-PDSCHSets-AddList-PSCH-ReconfRqst CRITICALITY    reject          TYPE      PDSCHSets-AddList-PSCH-ReconfRqst
      PRESENCE optional      } |
    { ID      id-PDSCHSets-ModifyList-PSCH-ReconfRqst CRITICALITY    reject          TYPE      PDSCHSets-ModifyList-PSCH-ReconfRqst
      PRESENCE optional      } |
    { ID      id-PDSCHSets-DeleteList-PSCH-ReconfRqst CRITICALITY    reject          TYPE      PDSCHSets-DeleteList-PSCH-ReconfRqst
      PRESENCE optional      } |
    { ID      id-PUSCHSets-AddList-PSCH-ReconfRqst CRITICALITY    reject          TYPE      PUSCHSets-AddList-PSCH-ReconfRqst
      PRESENCE optional      } |
    { ID      id-PUSCHSets-ModifyList-PSCH-ReconfRqst CRITICALITY    reject          TYPE      PUSCHSets-ModifyList-PSCH-ReconfRqst
      PRESENCE optional      } |
    { ID      id-PUSCHSets-DeleteList-PSCH-ReconfRqst CRITICALITY    reject          TYPE      PUSCHSets-DeleteList-PSCH-ReconfRqst
      PRESENCE optional      },
    ...
}

PhysicalSharedChannelReconfigurationRequestTDD-Extensions NBAP-PROTOCOL-EXTENSION ::= {
    { ID      id-HS-PDSCH-TDD-Information-PSCH-ReconfRqst CRITICALITY    reject          EXTENSION HS-PDSCH-TDD-Information-PSCH-
      ReconfRqst PRESENCE optional      } |
    { ID      id-Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst CRITICALITY    reject          EXTENSION Add-To-HS-SCCH-Resource-Pool-PSCH-
      ReconfRqst PRESENCE optional      } |
    { ID      id-Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst CRITICALITY    reject          EXTENSION Modify-HS-SCCH-Resource-Pool-PSCH-
      ReconfRqst PRESENCE optional      } |
    { ID      id-Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst CRITICALITY    reject          EXTENSION Delete-From-HS-SCCH-Resource-Pool-
      PSCH-ReconfRqst PRESENCE optional      },
    ...
}

PDSCHSets-AddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-AddItem-PSCH-ReconfRqst

PDSCHSets-AddItem-PSCH-ReconfRqst ::= SEQUENCE {

```

```

    pDSCHSet-ID                PDSCHSet-ID,
    pDSCH-InformationList      PDSCH-Information-AddList-PSCH-ReconfRqst  OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,
    ...
}

PDSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PDSCH-AddInformation-LCR-PSCH-ReconfRqst  CRITICALITY reject  EXTENSION  PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst
    PRESENCE  optional}, -- Mandatory for 1.28Mcps TDD
    ...
}

PDSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PDSCH-Information-AddListIEs-PSCH-ReconfRqst }}
-- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD

PDSCH-Information-AddListIEs-PSCH-ReconfRqst  NBAP-PROTOCOL-IES ::= {
    {ID id-PDSCH-Information-AddListIE-PSCH-ReconfRqst  CRITICALITY reject  TYPE  PDSCH-Information-AddItem-PSCH-ReconfRqst
    PRESENCE  mandatory}
}

PDSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod          RepetitionPeriod,
    repetitionLength          RepetitionLength,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset,
    dl-Timeslot-InformationAddList-PSCH-ReconfRqst  DL-Timeslot-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions              ProtocolExtensionContainer { {PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} }  OPTIONAL,
    ...
}

PDSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTs)) OF DL-Timeslot-InformationAddItem-PSCH-ReconfRqst

DL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                  TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tFCI-Presence              TFCI-Presence,
    dl-Code-InformationAddList-PSCH-ReconfRqst  DL-Code-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions              ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    ...
}

DL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Code-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-PSCH-ReconfRqst

DL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID                  PDSCH-ID,

```

```

    tdd-ChannelisationCode          TDD-ChannelisationCode,
    iE-Extensions                    ProtocolExtensionContainer { { DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
    ...
}

```

```

DL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod                RepetitionPeriod,
    repetitionLength                RepetitionLength,
    tdd-PhysicalChannelOffset       TDD-PhysicalChannelOffset,
    dl-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst DL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst,
    iE-Extensions                    ProtocolExtensionContainer { { PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    ...
}

```

```

PDSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

DL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-Timeslot-InformationAddItem-LCR-PSCH-
ReconfRqst

```

```

DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR                     TimeSlotLCR,
    midambleShiftLCR                MidambleShiftLCR,
    tFCI-Presence                    TFCI-Presence,
    dl-Code-InformationAddList-LCR-PSCH-ReconfRqst DL-Code-InformationAddList-LCR-PSCH-ReconfRqst,
    iE-Extensions                    ProtocolExtensionContainer { { DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    ...
}

```

```

DL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

DL-Code-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst

```

```

DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCH-ID                         PDSCH-ID,
    tdd-ChannelisationCodeLCR        TDD-ChannelisationCodeLCR,
    iE-Extensions                    ProtocolExtensionContainer { { DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    ...
}

```

```

DL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

PDSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-ModifyItem-PSCH-ReconfRqst

PDSCHSets-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCHSet-ID                PDSCHSet-ID,
    pDSCH-InformationList      PDSCH-Information-ModifyList-PSCH-ReconfRqst,
    iE-Extensions              ProtocolExtensionContainer { {PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PDSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PDSCH-ModifyInformation-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-
ReconfRqst PRESENCE optional}, -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
    ...
}

PDSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst }}

PDSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PDSCH-Information-ModifyListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PDSCH-Information-ModifyItem-PSCH-ReconfRqst
PRESENCE optional} -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
}

PDSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod            RepetitionPeriod OPTIONAL,
    repetitionLength            RepetitionLength OPTIONAL,
    tdd-PhysicalChannelOffset   TDD-PhysicalChannelOffset OPTIONAL,
    dL-Timeslot-InformationModifyList-PSCH-ReconfRqst DL-Timeslot-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { {PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs} }
OPTIONAL,
    ...
}

PDSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

DL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSs)) OF DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

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

DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

DL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationModifyItem-PSCH-ReconfRqst

```
DL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  pDSCH-ID                PDSCH-ID,
  tdd-ChannelisationCode  TDD-ChannelisationCode,
  iE-Extensions           ProtocolExtensionContainer { { DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } }
  OPTIONAL,
  ...
}
```

```
DL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
PDSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  repetitionPeriod          RepetitionPeriod          OPTIONAL,
  repetitionLength         RepetitionLength          OPTIONAL,
  tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
  dL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
  iE-Extensions           ProtocolExtensionContainer { { PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst-ExtIEs } } OPTIONAL,
  ...
}
```

```
PDSCH-ModifyInformation-LCR-ModifyListIE-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

DL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfDLTSLCRs)) OF DL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

```
DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  timeSlotLCR                TimeSlotLCR,
  midambleShiftLCR          MidambleShiftLCR OPTIONAL,
  tFCI-Presence              TFCI-Presence OPTIONAL,
  dL-Code-LCR-InformationModifyList-PSCH-ReconfRqst DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
  iE-Extensions           ProtocolExtensionContainer { { DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } }
  OPTIONAL,
  ...
}
```

```
DL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

DL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHs)) OF DL-Code-InformationModifyItem-PSCH-ReconfRqst

```
DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  pDSCH-ID                PDSCH-ID,
  tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
  iE-Extensions           ProtocolExtensionContainer { { DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } }
  OPTIONAL,
  ...
}
```

```

}

DL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PDSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPDSCHSets)) OF PDSCHSets-DeleteItem-PSCH-ReconfRqst

PDSCHSets-DeleteItem-PSCH-ReconfRqst ::= SEQUENCE {
    pDSCHSet-ID                PDSCHSet-ID,
    iE-Extensions              ProtocolExtensionContainer { {PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PDSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCHSets-AddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-AddItem-PSCH-ReconfRqst

PUSCHSets-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCHSet-ID                PUSCHSet-ID,
    pUSCH-InformationList      PUSCH-Information-AddList-PSCH-ReconfRqst OPTIONAL,
    -- Mandatory for 3.84Mcps TDD, Not Applicable to 1.28Mcps TDD
    iE-Extensions              ProtocolExtensionContainer { {PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
    ...
}

PUSCHSets-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PUSCH-AddInformation-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst
    PRESENCE optional}, -- Mandatory for 1.28Mcps TDD, Not Applicable to 3.84Mcps TDD
    ...
}

PUSCH-Information-AddList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PUSCH-Information-AddListIEs-PSCH-ReconfRqst }}

PUSCH-Information-AddListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PUSCH-Information-AddListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCH-Information-AddItem-PSCH-ReconfRqst
    PRESENCE mandatory}
}

PUSCH-Information-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod           RepetitionPeriod,
    repetitionLength           RepetitionLength,
    tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
    uL-Timeslot-InformationAddList-PSCH-ReconfRqst UL-Timeslot-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions              ProtocolExtensionContainer { {PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    ...
}

PUSCH-Information-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

```

}

UL-Timeslot-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationAddItem-PSCH-ReconfRqst

UL-Timeslot-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                TimeSlot,
    midambleShiftAndBurstType  MidambleShiftAndBurstType,
    tFCI-Presence            TFCI-Presence,
    uL-Code-InformationAddList-PSCH-ReconfRqst  UL-Code-InformationAddList-PSCH-ReconfRqst,
    iE-Extensions            ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    ...
}

UL-Timeslot-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationAddList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-PSCH-ReconfRqst

UL-Code-InformationAddItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID                PUSCH-ID,
    tdd-ChannelisationCode  TDD-ChannelisationCode,
    iE-Extensions            ProtocolExtensionContainer { { UL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    ...
}

UL-Code-InformationAddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod        RepetitionPeriod,
    repetitionLength        RepetitionLength,
    tdd-PhysicalChannelOffset  TDD-PhysicalChannelOffset,
    uL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst  UL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst,
    iE-Extensions            ProtocolExtensionContainer { { PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    ...
}

PUSCH-AddInformation-LCR-AddItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1.. maxNrOfULTSLCRs)) OF UL-Timeslot-InformationAddItem-LCR-PSCH-
ReconfRqst

UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    midambleShiftLCR          MidambleShiftLCR,
    tFCI-Presence            TFCI-Presence,
    uL-Code-InformationAddList-LCR-PSCH-ReconfRqst  UL-Code-InformationAddList-LCR-PSCH-ReconfRqst,

```



```

    iE-Extensions                ProtocolExtensionContainer { { UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    ...
}

UL-Timeslot-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationAddList-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst

UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID                      PUSCH-ID,
    tdd-ChannelisationCodeLCR     TDD-ChannelisationCodeLCR,
    iE-Extensions                ProtocolExtensionContainer { { UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    ...
}

UL-Code-InformationAddItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCHSets-ModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-ModifyItem-PSCH-ReconfRqst

PUSCHSets-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCHSet-ID                  PUSCHSet-ID,
    pUSCH-InformationList        PUSCH-Information-ModifyList-PSCH-ReconfRqst    OPTIONAL,
    -- Applicable to 3.84Mcps TDD only
    iE-Extensions                ProtocolExtensionContainer { { PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs } }    OPTIONAL,
    ...
}

PUSCHSets-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    {ID id-PUSCH-ModifyInformation-LCR-PSCH-ReconfRqst CRITICALITY reject EXTENSION PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-
ReconfRqst PRESENCE optional}, -- Applicable to 1.28Mcps TDD only
    ...
}

PUSCH-Information-ModifyList-PSCH-ReconfRqst ::= ProtocolIE-Single-Container {{ PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst }}

PUSCH-Information-ModifyListIEs-PSCH-ReconfRqst NBAP-PROTOCOL-IES ::= {
    {ID id-PUSCH-Information-ModifyListIE-PSCH-ReconfRqst CRITICALITY reject TYPE PUSCH-Information-ModifyItem-PSCH-ReconfRqst
PRESENCE mandatory}
}

PUSCH-Information-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod              RepetitionPeriod                OPTIONAL,
    repetitionLength              RepetitionLength                OPTIONAL,
    tdd-PhysicalChannelOffset     TDD-PhysicalChannelOffset    OPTIONAL,
    uL-Timeslot-InformationModifyList-PSCH-ReconfRqst              UL-Timeslot-InformationModifyList-PSCH-ReconfRqst    OPTIONAL,
    iE-Extensions                ProtocolExtensionContainer { { PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,

```

```

    }
    ...
}

PUSCH-Information-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSs)) OF UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst

UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType OPTIONAL,
    tFCI-Presence           TFCI-Presence OPTIONAL,
    uL-Code-InformationModifyList-PSCH-ReconfRqst UL-Code-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { { UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    ...
}

UL-Timeslot-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationModifyItem-PSCH-ReconfRqst

UL-Code-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID                PUSCH-ID,
    tdd-ChannelisationCode  TDD-ChannelisationCode,
    iE-Extensions           ProtocolExtensionContainer { { UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    ...
}

UL-Code-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    repetitionPeriod        RepetitionPeriod OPTIONAL,
    repetitionLength        RepetitionLength  OPTIONAL,
    tdd-PhysicalChannelOffset TDD-PhysicalChannelOffset OPTIONAL,
    uL-Timeslot-InformationModifyList-LCR-PSCH-ReconfRqst UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions           ProtocolExtensionContainer { { PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    ...
}

PUSCH-ModifyInformation-LCR-ModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Timeslot-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfULTSLCRs)) OF UL-Timeslot-InformationModifyItem-PSCH-
ReconfRqst

```

```

UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    midambleShiftLCR           MidambleShiftLCR    OPTIONAL,
    tFCI-Presence              TFCI-Presence      OPTIONAL,
    uL-Code-InformationModifyList-PSCH-ReconfRqst  UL-Code-InformationModifyList-PSCH-ReconfRqst  OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { { UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    ...
}

UL-Timeslot-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

UL-Code-LCR-InformationModifyList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHs)) OF UL-Code-InformationModifyItem-PSCH-ReconfRqst

UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCH-ID                    PUSCH-ID,
    tdd-ChannelisationCodeLCR   TDD-ChannelisationCodeLCR,
    iE-Extensions              ProtocolExtensionContainer { { UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    ...
}

UL-Code-LCR-InformationModifyItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

PUSCHSets-DeleteList-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfPUSCHSets)) OF PUSCHSets-DeleteItem-PSCH-ReconfRqst

PUSCHSets-DeleteItem-PSCH-ReconfRqst ::= SEQUENCE {
    pUSCHSet-ID                PUSCHSet-ID,
    iE-Extensions              ProtocolExtensionContainer { { PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs } }    OPTIONAL,
    ...
}

PUSCHSets-DeleteItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-PDSCH-TDD-Information-PSCH-ReconfRqst ::= SEQUENCE {
    dL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRqst  DL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRqst  OPTIONAL,
    dL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst  DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst  OPTIONAL,
    iE-Extensions              ProtocolExtensionContainer { { HS-PDSCH-TDD-Information-PSCH-ReconfRqst-ExtIEs } }
    OPTIONAL,
    ...
}

HS-PDSCH-TDD-Information-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

DL-HS-PDSCH-Timeslot-Information-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfDLTSS)) OF DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst

```
DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlot                TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    dl-HS-PDSCH-Codelist-PSCH-ReconfRqst DL-HS-PDSCH-Codelist-PSCH-ReconfRqst,
    iE-Extensions           ProtocolExtensionContainer { { DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    ...
}
```

DL-HS-PDSCH-Timeslot-InformationItem-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
...  
}

DL-HS-PDSCH-Codelist-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSPDSCHs)) OF TDD-ChannelisationCode

DL-HS-PDSCH-Timeslot-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfDLTSLCRs)) OF DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst

```
DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    timeSlotLCR                TimeSlotLCR,
    midambleShiftAndBurstTypeLCR MidambleShiftLCR,
    dl-HS-PDSCH-Codelist-LCR-PSCH-ReconfRqst DL-HS-PDSCH-Codelist-LCR-PSCH-ReconfRqst,
    iE-Extensions              ProtocolExtensionContainer { { DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    ...
}
```

DL-HS-PDSCH-Timeslot-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
...  
}

DL-HS-PDSCH-Codelist-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSPDSCHs)) OF TDD-ChannelisationCode

```
Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE {
    hS-SCCH-Information-PSCH-ReconfRqst HS-SCCH-Information-PSCH-ReconfRqst OPTIONAL,
    hS-SCCH-Information-LCR-PSCH-ReconfRqst HS-SCCH-Information-PSCH-ReconfRqst OPTIONAL,
    iE-Extensions                       ProtocolExtensionContainer { { Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    ...
}
```

Add-To-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
...  
}

HS-SCCH-Information-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCHs)) OF HS-SCCH-InformationItem-PSCH-ReconfRqst

```
HS-SCCH-InformationItem-PSCH-ReconfRqst ::= SEQUENCE {
    hS-SCCH-ID                HS-SCCH-ID,
    timeSlot                  TimeSlot,
```

```

midambleShiftAndBurstType      MidambleShiftAndBurstType,
tdd-ChannelisationCode          TDD-ChannelisationCode,
hs-SCCH-MaxPower                DL-Power,
hs-SICH-Information             HS-SICH-Information-PSCH-ReconfRqst,
iE-Extensions                   ProtocolExtensionContainer { { HS-SCCH-InformationItem-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
...
}

HS-SCCH-InformationItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

HS-SICH-Information-PSCH-ReconfRqst ::= SEQUENCE {
hsSICH-ID                HS-SICH-ID,
timeSlot                TimeSlot,
midambleShiftAndBurstType MidambleShiftAndBurstType,
tdd-ChannelisationCode  TDD-ChannelisationCode,
iE-Extensions           ProtocolExtensionContainer { { HS-SICH-Information-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
...
}

HS-SICH-Information-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

HS-SCCH-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst

HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
hs-SCCH-ID                HS-SCCH-ID,
timeSlotLCR              TimeSlotLCR,
midambleShiftLCR         MidambleShiftLCR,
first-TDD-ChannelisationCode TDD-ChannelisationCodeLCR,
second-TDD-ChannelisationCode TDD-ChannelisationCodeLCR,
hs-SCCH-MaxPower         DL-Power,
hs-SICH-Information-LCR  HS-SICH-Information-LCR-PSCH-ReconfRqst,
iE-Extensions           ProtocolExtensionContainer { { HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs} }
OPTIONAL,
...
}

HS-SCCH-InformationItem-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
...
}

HS-SICH-Information-LCR-PSCH-ReconfRqst ::= SEQUENCE {
hsSICH-ID                HS-SICH-ID,
timeSlotLCR              TimeSlotLCR,
midambleShiftLCR         MidambleShiftLCR,
tdd-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
iE-Extensions           ProtocolExtensionContainer { { HS-SICH-Information-LCR-PSCH-ReconfRqst-ExtIEs} } OPTIONAL,
...
}

```

```

HS-SICH-Information-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE {
  hS-SCCH-InformationModify-PSCH-ReconfRqst  HS-SCCH-InformationModify-PSCH-ReconfRqst  OPTIONAL,
  hS-SCCH-InformationModify-LCR-PSCH-ReconfRqst  HS-SCCH-InformationModify-PSCH-ReconfRqst  OPTIONAL,
  iE-Extensions  ProtocolExtensionContainer { { Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs } }
  OPTIONAL,
  ...
}

Modify-HS-SCCH-Resource-Pool-PSCH-ReconfRqst-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HS-SCCH-InformationModify-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-PSCH-ReconfRqst

HS-SCCH-InformationModifyItem-PSCH-ReconfRqst ::= SEQUENCE {
  hS-SCCH-ID  HS-SCCH-ID,
  timeSlot  TimeSlot  OPTIONAL,
  midambleShiftAndBurstType  MidambleShiftAndBurstType  OPTIONAL,
  tdd-ChannelisationCode  TDD-ChannelisationCode  OPTIONAL,
  hS-SCCH-MaxPower  DL-Power  OPTIONAL,
  hS-SICH-Information  HS-SICH-Information-PSCH-ReconfRqst  OPTIONAL,
  iE-Extensions  ProtocolExtensionContainer { { HS-SCCH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs } }
  OPTIONAL,
  ...
}

HS-SCCH-InformationModifyItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HS-SICH-InformationModify-PSCH-ReconfRqst ::= SEQUENCE {
  hsSICH-ID  HS-SICH-ID,
  timeSlot  TimeSlot  OPTIONAL,
  midambleShiftAndBurstType  MidambleShiftAndBurstType  OPTIONAL,
  tdd-ChannelisationCode  TDD-ChannelisationCode  OPTIONAL,
  iE-Extensions  ProtocolExtensionContainer { { HS-SICH-InformationModify-PSCH-ReconfRqst-ExtIEs } }  OPTIONAL,
  ...
}

HS-SICH-InformationModify-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
  ...
}

HS-SCCH-InformationModify-LCR-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst

HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst ::= SEQUENCE {
  hS-SCCH-ID  HS-SCCH-ID,
  timeSlotLCR  TimeSlotLCR  OPTIONAL,
  midambleShiftLCR  MidambleShiftLCR  OPTIONAL,

```

```

    first-TDD-ChannelisationCode      TDD-ChannelisationCodeLCR  OPTIONAL,
    second-TDD-ChannelisationCode     TDD-ChannelisationCodeLCR  OPTIONAL,
    HS-SCCH-MaxPower                  DL-Power      OPTIONAL,
    HS-SICH-Information-LCR           HS-SICH-Information-LCR-PSCH-ReconfRqst  OPTIONAL,
    IE-Extensions                      ProtocolExtensionContainer { { HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    ...
}

HS-SCCH-InformationModifyItem-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SICH-InformationModify-LCR-PSCH-ReconfRqst ::= SEQUENCE {
    hsSICH-ID                HS-SICH-ID,
    timeSlotLCR              TimeSlotLCR      OPTIONAL,
    midambleShiftLCR         MidambleShiftLCR  OPTIONAL,
    tdd-ChannelisationCodeLCR  TDD-ChannelisationCodeLCR  OPTIONAL,
    IE-Extensions            ProtocolExtensionContainer { { HS-SICH-InformationModify-LCR-PSCH-ReconfRqst-ExtIEs} }
    OPTIONAL,
    ...
}

HS-SICH-InformationModify-LCR-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

Delete-From-HS-SCCH-Resource-Pool-PSCH-ReconfRqst ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF Delete-From-HS-SCCH-Resource-PoolItem-PSCH-
ReconfRqst

Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst ::= SEQUENCE {
    HS-SCCH-ID                HS-SCCH-ID,
    IE-Extensions            ProtocolExtensionContainer { { Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs}
    OPTIONAL,
    ...
}

Delete-From-HS-SCCH-Resource-PoolItem-PSCH-ReconfRqst-ExtIEs  NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

```

/\* partly omitted \*/

### 9.3.4 Information Elements Definitions

/\* partly omitted \*/

```

-- =====
-- H
-- =====

HARQMemoryPartitioningFDD ::= SEQUENCE (SIZE (1..maxNrOfHARQProcesses)) OF HARQMemoryPartitioning-ItemFDD

HARQMemoryPartitioning-ItemFDD ::= SEQUENCE {
    process-Memory-Size      INTEGER (0..172800,...),
    iE-Extensions            ProtocolExtensionContainer { { HARQMemoryPartitioning-ItemFDD-ExtIEs } } OPTIONAL,
    ...
}

HARQMemoryPartitioning-ItemFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HARQMemoryPartitioningTDD ::= SEQUENCE (SIZE (1..maxNrOfHARQProcesses)) OF HARQMemoryPartitioning-ItemTDD

HARQMemoryPartitioning-ItemTDD ::= SEQUENCE {
    process-Memory-Size      INTEGER (0..168960,...),
    iE-Extensions            ProtocolExtensionContainer { { HARQMemoryPartitioning-ItemTDD-ExtIEs } } OPTIONAL,
    ...
}

HARQMemoryPartitioning-ItemTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-FDD-Information ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-Info    HSDSCH-MACdFlow-Specific-InfoList,
    ueCapability-Info                UE-Capability-InformationFDD,
    harqMemoryPartitioningFDD        HARQMemoryPartitioningFDD,
    cqiFeedback-CycleK               CQI-Feedback-Cycle,
    cqiRepetitionFactor              CQI-RepetitionFactor OPTIONAL,
    -- This IE shall be present if the CQI Feedback Cycle k is greater than 0
    ackNackRepetitionFactor          AckNack-RepetitionFactor,
    cqiPowerOffset                  CQI-Power-Offset,
    ackPowerOffset                  Ack-Power-Offset,
    nackPowerOffset                 Nack-Power-Offset,
    hsscch-PowerOffset              HSSCCH-PowerOffset OPTIONAL,
    measurement-Power-Offset        Measurement-Power-Offset OPTIONAL,
    iE-Extensions                    ProtocolExtensionContainer { { HSDSCH-FDD-Information-ExtIEs } } OPTIONAL,
    ...
}

HSDSCH-FDD-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-TDD-Information ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-Info    HSDSCH-MACdFlow-Specific-InfoList,
    ueCapability-Info                UE-Capability-InformationTDD,
    harqMemoryPartitioningTDD        HARQMemoryPartitioningTDD,

```



```

    iE-Extensions          ProtocolExtensionContainer { { HSDSCH-TDD-Information-ExtIEs } }          OPTIONAL,
    ...
}

HSDSCH-TDD-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-MACdFlow-Specific-InfoList ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem

HSDSCH-MACdFlow-Specific-InfoItem ::= SEQUENCE {
    hsDSCH-MACdFlow-ID          HSDSCH-MACdFlow-ID,
    allocationRetentionPriority  AllocationRetentionPriority,
    bindingID                   BindingID          OPTIONAL,
    transportLayerAddress        TransportLayerAddress    OPTIONAL,
    priorityQueueInfo           PriorityQueue-InfoList,
    iE-Extensions               ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs } }    OPTIONAL,
    ...
}

HSDSCH-MACdFlow-Specific-InfoItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-Information-to-Modify ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-Info-to-Modify          HSDSCH-MACdFlow-Specific-InfoList-to-Modify          OPTIONAL,
    cqiFeedbackCycleK                               CQI-Feedback-Cycle          OPTIONAL, -- For FDD only
    cqiRepetitionFactor                             CQI-RepetitionFactor        OPTIONAL, -- For FDD only
    ackNackRepetitionFactor                         AckNack-RepetitionFactor    OPTIONAL, -- For FDD only
    cqiPowerOffset                                 CQI-Power-Offset           OPTIONAL, -- For FDD only
    ackPowerOffset                                 Ack-Power-Offset           OPTIONAL, -- For FDD only
    nackPowerOffset                                Nack-Power-Offset          OPTIONAL, -- For FDD only
    hsscchPowerOffset                              HSSCCH-PowerOffset         OPTIONAL, -- only for FDD
    measurementPowerOffset                         Measurement-Power-Offset    OPTIONAL, -- For FDD only
    iE-Extensions                                  ProtocolExtensionContainer { { HSDSCH-Information-to-Modify-ExtIEs } }    OPTIONAL,
    ...
}

HSDSCH-Information-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-MACdFlow-Specific-InfoList-to-Modify ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InfoItem-to-Modify

HSDSCH-MACdFlow-Specific-InfoItem-to-Modify ::= SEQUENCE {
    hsDSCH-MACdFlow-ID          HSDSCH-MACdFlow-ID,
    allocationRetentionPriority  AllocationRetentionPriority          OPTIONAL,
    transportBearerRequestIndicator TransportBearerRequestIndicator,
    bindingID                   BindingID          OPTIONAL,
    transportLayerAddress        TransportLayerAddress    OPTIONAL,
    priorityQueueInfoToModify    PriorityQueue-InfoList-to-Modify    OPTIONAL,
    iE-Extensions               ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs } }    OPTIONAL,
    ...
}

```

```

}

HSDSCH-MACdFlow-Specific-InfoItem-to-Modify-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-FDD-Information-Response ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-InformationResp      HSDSCH-MACdFlow-Specific-InformationResp,
    hsSCCH-Specific-Information-ResponseFDD       HSSCCH-Specific-InformationRespListFDD,
    iE-Extensions                                 ProtocolExtensionContainer { { HSDSCH-FDD-Information-Response-ExtIEs } } OPTIONAL,
    ...
}

HSDSCH-FDD-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-TDD-Information-Response ::= SEQUENCE {
    hsDSCH-MACdFlow-Specific-InformationResp      HSDSCH-MACdFlow-Specific-InformationResp,
    hsSCCH-Specific-Information-ResponseTDD       HSSCCH-Specific-InformationRespListTDD      OPTIONAL, -- Mandatory for 3.84Mcps TDD, Not
Applicable to 1.28Mcps TDD
    hsSCCH-Specific-Information-ResponseTDDLRCR   HSSCCH-Specific-InformationRespListTDDLRCR  OPTIONAL, -- Mandatory for 1.28Mcps TDD, Not
Applicable to 3.84Mcps TDD
    iE-Extensions                                 ProtocolExtensionContainer { { HSDSCH-TDD-Information-Response-ExtIEs } } OPTIONAL,
    ...
}

HSDSCH-TDD-Information-Response-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-MACdFlow-Specific-InformationResp ::= SEQUENCE (SIZE (1..maxNrOfMACdFlows)) OF HSDSCH-MACdFlow-Specific-InformationResp-Item

HSDSCH-MACdFlow-Specific-InformationResp-Item ::= SEQUENCE {
    hsDSCHMacdFlow-Id                            HSDSCH-MACdFlow-ID,
    bindingID                                     BindingID                                     OPTIONAL,
    transportLayerAddress                         TransportLayerAddress                       OPTIONAL,
    hSDSCH-Initial-Capacity-Allocation            HSDSCH-Initial-Capacity-Allocation OPTIONAL,
    iE-Extensions                                 ProtocolExtensionContainer { { HSDSCH-MACdFlow-Specific-InformationRespItem-ExtIEs } }
    OPTIONAL,
    ...
}

HSDSCH-MACdFlow-Specific-InformationRespItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSSCCH-PowerOffset ::= INTEGER (0..255)
-- PowerOffset = -32 + offset * 0.25
-- Unit dB, Range -32dB .. +31.75dB, Step +0.25dB

HSDSCH-Initial-Capacity-Allocation ::= SEQUENCE (SIZE (1..16)) OF HSDSCH-Initial-Capacity-AllocationItem

```

```

HSDSCH-Initial-Capacity-AllocationItem ::= SEQUENCE {
    schedulingPriorityIndicator    SchedulingPriorityIndicator,
    maximum-MACdPDU-Size          MACdPDU-Size,
    hSDSCH-InitialWindowSize      HSDSCH-InitialWindowSize,
    iE-Extensions                  ProtocolExtensionContainer { { HSDSCH-Initial-Capacity-AllocationItem-ExtIEs } } OPTIONAL,
    ...
}

HSDSCH-Initial-Capacity-AllocationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-InitialWindowSize          ::= INTEGER (1..2047)
-- Number of MAC-d PDUs.
-- 2047 = Unlimited number of MAC-d PDUs

HSSCCH-Specific-InformationRespListFDD ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-Codes

HSSCCH-Codes ::= SEQUENCE {
    codeNumber                      INTEGER (1..127),
    iE-Extensions                    ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemFDD-ExtIEs } }
    OPTIONAL,
    ...
}

HSSCCH-Specific-InformationRespItemFDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSSCCH-Specific-InformationRespListTDD ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-Specific-InformationRespItemTDD

HSSCCH-Specific-InformationRespItemTDD ::= SEQUENCE {
    timeslot                        TimeSlot,
    midambleShiftAndBurstType       MidambleShiftAndBurstType,
    tDD-ChannelisationCode          TDD-ChannelisationCode,
    hSSICH-Info                     HSSICH-Info,
    iE-Extensions                    ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemTDD-ExtIEs } }
    OPTIONAL,
    ...
}

HSSCCH-Specific-InformationRespItemTDD-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSSCCH-Specific-InformationRespListTDDLRCR ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHCodes)) OF HSSCCH-Specific-InformationRespItemTDDLRCR

HSSCCH-Specific-InformationRespItemTDDLRCR ::= SEQUENCE {
    timeslotLCR                     TimeSlotLCR,
    midambleShiftLCR                MidambleShiftLCR,
    first-TDD-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
    second-TDD-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
    hSSICH-InfoLCR                  HSSICH-InfoLCR,

```

```

    iE-Extensions          ProtocolExtensionContainer { { HSSCCH-Specific-InformationRespItemTDDLRCR-ExtIEs } }
    OPTIONAL,
    ...
}

HSSCCH-Specific-InformationRespItemTDDLRCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSSICH-Info ::= SEQUENCE {
    hsSICH-ID              HS-SICH-ID,
    timeslot               TimeSlot,
    midambleShiftAndBurstType MidambleShiftAndBurstType,
    tDD-ChannelisationCode TDD-ChannelisationCode,
    iE-Extensions          ProtocolExtensionContainer { { HSSICH-Info-ExtIEs } }      OPTIONAL,
    ...
}

HSSICH-Info-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSSICH-InfoLCR ::= SEQUENCE {
    hsSICH-ID              HS-SICH-ID,
    timeslotLCR            TimeSlotLCR,
    midambleShiftLCR       MidambleShiftLCR,
    tDD-ChannelisationCodeLCR TDD-ChannelisationCodeLCR,
    iE-Extensions          ProtocolExtensionContainer { { HSSICH-Info-LCR-ExtIEs } }      OPTIONAL,
    ...
}

HSSICH-Info-LCR-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SICH-Reception-Quality-Value ::= SEQUENCE {
    failed-HS-SICH         HS-SICH-failed,
    missed-HS-SICH         HS-SICH-missed,
    total-HS-SICH          HS-SICH-total,
    iE-Extensions          ProtocolExtensionContainer { { HS-SICH-Reception-Quality-Value-ExtIEs } } OPTIONAL,
    ...
}

HS-SICH-Reception-Quality-Value-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HS-SICH-failed ::= INTEGER (0..20)

HS-SICH-missed ::= INTEGER (0..20)

HS-SICH-total ::= INTEGER (0..20)

```

```

HS-SICH-Reception-Quality-Measurement-Value ::= INTEGER (0..20)
-- According to mapping in [23]

HSDSCH-MACdFlow-ID ::= INTEGER (0..maxNrOfMACdFlows-1)

HSDSCH-RNTI ::= INTEGER (0..65535)

HS-PDSCH-FDD-Code-Information ::= SEQUENCE {
    number-of-HS-PDSCH-codes                INTEGER (0..maxCodeNrComp-1),
    hs-PDSCH-Start-code-number              HS-PDSCH-Start-code-number    OPTIONAL,
-- Only included when number of HS-DSCH codes > 0
    ...
}

HS-PDSCH-Start-code-number ::= INTEGER (0..maxCodeNrComp-1)

HS-SCCH-ID ::= INTEGER (0..31)
HS-SICH-ID ::= INTEGER (0..31)

HS-SCCH-FDD-Code-Information ::= CHOICE {
    replace                HS-SCCH-FDD-Code-List,
    remove                NULL,
    ...
}

HS-SCCH-FDD-Code-List ::= SEQUENCE (SIZE (1..maxNrOfHSSCCHs)) OF HS-SCCH-FDD-Code-Information-Item

HS-SCCH-FDD-Code-Information-Item ::= INTEGER (0..maxCodeNrComp-1)

HSSCCH-CodeChangeIndicator ::= ENUMERATED {
    hsSCCHCodeChangeNeeded
}

HSDSCH-FDD-Update-Information ::= SEQUENCE {
    hsSCCHCodeChangeIndicator          HSSCCH-CodeChangeIndicator          OPTIONAL,
    cqiFeedbackCycleK                  CQI-Feedback-Cycle                  OPTIONAL,
    cqiRepetitionFactor                 CQI-RepetitionFactor                 OPTIONAL,
    ackNackRepetitionFactor              AckNack-RepetitionFactor              OPTIONAL,
    cqiPowerOffset                      CQI-Power-Offset                      OPTIONAL,
    ackPowerOffset                      Ack-Power-Offset                      OPTIONAL,
    nackPowerOffset                     Nack-Power-Offset                     OPTIONAL,
    iE-Extensions                       ProtocolExtensionContainer { { HSDSCH-FDD-Update-Information-ExtIEs } }  OPTIONAL,
    ...
}

HSDSCH-FDD-Update-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    ...
}

HSDSCH-TDD-Update-Information ::= SEQUENCE {
    hsSCCHCodeChangeIndicator          HSSCCH-CodeChangeIndicator          OPTIONAL,
    iE-Extensions                       ProtocolExtensionContainer { { HSDSCH-TDD-Update-Information-ExtIEs } }  OPTIONAL,
    ...
}

```

```
}  
HSDSCH-TDD-Update-Information-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {  
    ...  
}
```