TSG-RAN Meeting #20
Hämeenlinna, Finland, 03-06 June 2003

RP-030303

Title: CR (Rel-5) to TS 25.331

Source: TSG-RAN WG2

Agenda item: 7.2.5

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level	Workitem
25.331	1960	-	Rel-5	Correction to the IE 'HS-DSCH capability class'	F	5.4.0	5.5.0	R2-031389	HSDPA-L23
25.331	1961	-	Rel-5	Correction of "RB mapping info" in case HS-DSCH + DCH	F	5.4.0	5.5.0	R2-031390	HSDPA-L23
25.331	1963	-	Rel-5	Explanation of CV-UE for the IE MidambleShift in the tabular	F	5.4.0	5.5.0	R2-031392	HSDPA-L23

CR-Form-v7

CHANGE REQUEST

⌘	**25.331** CR **1960**	⌘**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 **X** Radio Access Network **X** Core Network ☐

Title: ⌘	Correction to the IE 'HS-DSCH capability class'	
Source: ⌘	RAN WG2	
Work item code:⌘	HSDPA-L23	***Date:*** ⌘ 22/05/2003
Category: ⌘ **F**		***Release:*** ⌘ Rel-5

Use <u>one</u> of the following categories:	*Use <u>one</u> of the following releases:*
F *(correction)*	*2 (GSM Phase 2)*
A *(corresponds to a correction in an earlier release)*	*R96 (Release 1996)*
B *(addition of feature),*	*R97 (Release 1997)*
C *(functional modification of feature)*	*R98 (Release 1998)*
D *(editorial modification)*	*R99 (Release 1999)*
Detailed explanations of the above categories can	*Rel-4 (Release 4)*
be found in 3GPP TR 21.900.	*Rel-5 (Release 5)*
	Rel-6 (Release 6)

Reason for change: ⌘	In the clause 10.3.3.25 IE 'HS-DSCH capability class' is included with the value range [0..63]. This IE is not described within the 25.331. In 25.306 we have capability classes that are still under the discussion and the UE categories. To express the UE capabilities in RRC, UE categories should be used and so the name 'HS-DSCH capability class' is not appropriate. The value range [0..63] is confusing as well because in 25.306 the UE categories begin with the category 1.
Summary of change:⌘	The IE 'HS-DSCH capability class' was renamed to the IE 'HS-DSCH physical layer category' in tabular. In ASN.1 code the 'hsdsch-capability-class' was renamed to the 'hsdsch-physical-layer-category'. The value range of the IE 'HS-DSCH physical layer category was changed from [0..63] to [1..64] in both tabular and ASN.1.
Consequences if not approved: ⌘	As there is no description of the IE 'HS-DSCH capability class', the missleading name and value range can lead to two different interpretations and thus ambiguous signalling.

Clauses affected: ⌘	10.3.3.25, 11 (ASN.1)

	Y	N		
Other specs ⌘		X	Other core specifications	⌘
affected:		X	Test specifications	
		X	O&M Specifications	

Other comments: ⌘	

How to create CRs using this form:

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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.

10.3.3.25   Physical channel capability

Information Element/Group name	Need	Multi	Type and Reference	Semantics description	Version
Downlink physical channel capability information elements					
FDD downlink physical channel capability	CH-*fdd_req_sup*				
>Max no DPCH/PDSCH codes	MP		Integer (1..8)	Maximum number of DPCH/PDSCH codes to be simultaneously received	
>Max no physical channel bits received	MP		Integer (600, 1200, 2400, 3600, 4800, 7200, 9600, 14400, 19200, 28800, 38400, 48000, 57600, 67200, 76800)	Maximum number of physical channel bits received in any 10 ms interval (DPCH, PDSCH, S-CCPCH)	
>Support for SF 512	MP		Boolean	TRUE means supported	
>Support of PDSCH	MP		Boolean	TRUE means supported	
>CHOICE *Support of HS-PDSCH*	MP				REL-5
>>Supported					REL-5
>>>HS-DSCH physical layer category~~capability class~~	MP		Integer (~~0~~1..6~~3~~4)		REL-5
>>>Support of dedicated pilots for channel estimation of HS-DSCH	MP		Boolean	TRUE means supported	REL-5
>>Unsupported				(no data)	REL-5
>Simultaneous reception of SCCPCH and DPCH	MP		Boolean	TRUE means supported	
>Simultaneous reception of SCCPCH, DPCH and PDSCH	CV-*if_sim_rec _pdsch _sup*		Boolean	TRUE means supported	
>Max no of S-CCPCH RL	CV-*if_sim_rec*		Integer(1)	Maximum number of simultaneous S-CCPCH radio links	
>Support of dedicated pilots for channel estimation	MD		Enumerated (true)	Presence of this element means supported and absence not supported. This IE shall be set to TRUE in this version of the protocol.	
3.84 Mcps TDD downlink physical channel capability	CH-*3.84_Mcps _tdd_req_sup*				Name changed in REL-4
>Maximum number of timeslots per frame	MP		Integer (1..14)		

Information Element/Group name	Need	Multi	Type and Reference	Semantics description	Version
>Maximum number of physical channels per frame	MP		Integer (1..224)		
>Minimum SF	MP		Integer (1, 16)		
>Support of PDSCH	MP		Boolean	TRUE means supported	
>CHOICE *Support of HS-PDSCH*	MP				REL-5
>>Supported					REL-5
>>>HS-DSCH physical layer category~~capability class~~	MP		Integer (~~0~~1..6~~3~~4)		REL-5
>>Unsupported				(no data)	REL-5
>Maximum number of physical channels per timeslot	MP		Integer (1..16)		
1.28 Mcps TDD downlink physical channel capability	CH-*1.28_Mcps_tdd_req_sup*				REL-4
>Maximum number of timeslots per subframe	MP		Integer (1..6)		REL-4
>Maximum number of physical channels per subframe	MP		Integer (1..96)		REL-4
>Minimum SF	MP		Integer (1, 16)		REL-4
>Support of PDSCH	MP		Boolean	TRUE means supported	REL-4
>CHOICE *Support of HS-PDSCH*	MP				REL-5
>>Supported					REL-5
>>>HS-DSCH physical layer category~~capability class~~	MP		Integer (~~0~~1..6~~3~~4)		REL-5
>>Unsupported				(no data)	REL-5
>Maximum number of physical channels per timeslot	MP		Integer (1..16)		REL-4
>Support of 8PSK	MP		Boolean	TRUE means supported	REL-4
Uplink physical channel capability information elements					
FDD uplink physical channel capability	CH-*fdd_req_sup*				
>Maximum number of DPDCH bits transmitted per 10 ms	MP		Integer (600, 1200, 2400, 4800. 9600, 19200. 28800, 38400, 48000, 57600)		
>Support of PCPCH	MP		Boolean	TRUE means supported	
3.84 Mcps TDD uplink physical channel capability	CH-*3.84_Mcps_tdd_req_sup*				Name changed in REL-4
>Maximum Number of timeslots per frame	MP		Integer (1..14)		
>Maximum number of physical channels per timeslot	MP		Integer (1, 2)		
>Minimum SF	MP		Integer (1, 2, 4, 8, 16)		
>Support of PUSCH	MP		Boolean	TRUE means supported	

Information Element/Group name	Need	Multi	Type and Reference	Semantics description	Version
1.28 Mcps TDD uplink physical channel capability	CH-*1.28_Mcps_tdd_req_sup*				REL-4
>Maximum Number of timeslots per subframe	MP		Integer (1..6)		REL-4
>Maximum number of physical channels per timeslot	MP		Integer (1, 2)		REL-4
>Minimum SF	MP		Integer (1, 2, 4, 8, 16)		REL-4
>Support of PUSCH	MP		Boolean	TRUE means supported	REL-4
>Support of 8PSK	MP		Boolean	TRUE means supported	REL-4

Condition	Explanation
if_sim_rec_pdsch_sup	The IE is mandatory present if the IE "Simultaneous reception of SCCPCH and DPCH" = True and IE Support of PDSCH = True. Otherwise this field is not needed in the message.
if_sim_rec	The IE is mandatory present if the IE "capability Simultaneous reception of SCCPCH and DPCH" = True. Otherwise this field is not needed in the message.
3.84_Mcps_tdd_req_sup	The IE is mandatory present if the IE "TDD RF capability" is present with the IE "Chip rate capability" set to "3.84 Mcps" and a 3.84 Mcps TDD capability update has been requested in a previous message. Otherwise this field is not needed in the message.
1.28_Mcps_tdd_req_sup	The IE is mandatory present if the IE "TDD RF capability" is present with the IE "Chip rate capability" set to "1.28 Mcps" and a 1.28 Mcps TDD capability update has been requested in a previous message. Otherwise this field is not needed in the message.
fdd_req_sup	The IE is mandatory present if the IE "Multi-mode capability" has the value "FDD" or "FDD/TDD" and a FDD capability update has been requested in a previous message. Otherwise this field is not needed in the message.

11.3 Information element definitions

```
// partly omitted //

HSDSCH-physical-layer-categorycapability class ::=        INTEGER (01..643)


// partly omitted //

PhysicalChannelCapability ::=        SEQUENCE {
      fddPhysChCapability                 SEQUENCE {
         downlinkPhysChCapability            DL-PhysChCapabilityFDD,
         uplinkPhysChCapability              UL-PhysChCapabilityFDD
      }                                   OPTIONAL,
      -- tddPhysChCapability describes the 3.84Mcps TDD physical channel capability
      tddPhysChCapability                 SEQUENCE {
         downlinkPhysChCapability            DL-PhysChCapabilityTDD,
         uplinkPhysChCapability              UL-PhysChCapabilityTDD
      }                                   OPTIONAL
}
```

```
-- PhysicalChannelCapability-LCR-r4 describes the 1.28Mcps TDD physical channel capability
PhysicalChannelCapability-LCR-r4 ::=          SEQUENCE {
       tdd128-PhysChCapability                     SEQUENCE {
            downlinkPhysChCapability                DL-PhysChCapabilityTDD-LCR-r4,
            uplinkPhysChCapability                  UL-PhysChCapabilityTDD-LCR-r4
       }                                            OPTIONAL
}

-- PhysicalChannelCapability-hspdsch-r5 describes the HS-PDSCH physical channel capability
PhysicalChannelCapability-hspdsch-r5 ::=          SEQUENCE {
    supportOfDedicatedPilotsForChannelEstimationOfHSDSCH          BOOLEAN,
    modeSpecificInfo                                  CHOICE {
        fdd                                           SEQUENCE {
            hspdsch-supported                         CHOICE {
                supported                             HSDSCH-classphysical-layer-category,
                notsupported                          NULL
            }
        },
        tdd384                                        SEQUENCE {
            hspdsch-supported                         CHOICE {
                supported                             HSDSCH-classphysical-layer-
category,
                notsupported                          NULL
            }
        },
        tdd128                                        SEQUENCE {
            hspdsch-supported                         CHOICE {
                supported                             HSDSCH-classphysical-layer-
category,
                notsupported                          NULL
            }
        }
    }                                                 OPTIONAL
}
```

<table>
<tr><td colspan="7" align="right">CR-Form-v7</td></tr>
<tr><td colspan="7" align="center">CHANGE REQUEST</td></tr>
<tr><td>⌘</td><td>25.331</td><td>CR 1961</td><td>⌘rev -</td><td>⌘</td><td>Current version:</td><td>5.4.0 ⌘</td></tr>
</table>

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

Title: ⌘	Correction of "RB mapping info" in case HS-DSCH + DCH	
Source: ⌘	RAN WG2	
Work item code: ⌘	HSDPA-L23	**Date:** ⌘ 07/04/2003
Category: ⌘ **F**		**Release:** ⌘ Rel-5

Use <u>one</u> of the following categories:
F (correction)
A (corresponds to a correction in an earlier release)
B (addition of feature),
C (functional modification of feature)
D (editorial modification)
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use <u>one</u> of the following releases:
2 (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)

Reason for change: ⌘	At the moment it is unclear from the tabular description of the RB mapping info (10.3.4.21), which IEs have to be present, if the the variable "Downlink transport channel type" is set to "DCH + HSDSCH". In the ASN.1 section, the DCH TrCH ID and the Mac-d flow ID are already present in that case. In 10.3.6.23a Downlink HS-PDSCH Information the entry "HS-SCCH info" is optional. This is not reflected in the ASN.1 section, which prescribes it to be mandatory. However, it is not necessary to include the "HS-SCCH info", if e.g. only the CQI feedback cycle is reconfigured. Hence, the table seems to be correct in this respect, while the ASN.1 section is wrong.
Summary of change: ⌘	The expression "DCH + HS-DSCH" is added in the explanation for the condition "*DL-DCH*" and the condition "*DL-HSDSCH*". In the ASN.1 the "HS-SCCH info" is made optional.
Consequences if not approved: ⌘	Ambiguous Specification.

Clauses affected: ⌘	10.3.4.21, 11.3

		Y	**N**	
Other specs affected: ⌘			**X**	Other core specifications ⌘
				Test specifications
				O&M Specifications

Other comments: ⌘	

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10.3.4.21   RB mapping info

A multiplexing option for each possible transport channel or MAC-d flow this RB can be multiplexed on.

Information Element/Group name	Need	Multi	Type and reference	Semantics description	Version
Information for each multiplexing option	MP	1 to <maxRBMuxOptions>			
>RLC logical channel mapping indicator	CV-*UL-RLCLogicalChannels*		Boolean	TRUE indicates that the first logical channel shall be used for data PDUs and the second logical channel shall be used for control PDUs. FALSE indicates that control and data PDUs can be sent on either of the two logical channels. This parameter is not used in this release and shall be set to TRUE.	
>Number of uplink RLC logical channels	CV-*UL-RLC info*	1 to MaxLoCHperRLC		1 or 2 logical channels per RLC entity or radio bearer RLC [16]	
>>Uplink transport channel type	MP		Enumerated(DCH,RACH,CPCH,USCH)	CPCH is FDD only USCH is TDD only	
>>ULTransport channel identity	CV-*UL-DCH/USCH*		Transport channel identity 10.3.5.18	This is the ID of a DCH or USCH (TDD only) that this RB could be mapped onto.	
>>Logical channel identity	OP		Integer(1..15)	This parameter is used to distinguish logical channels multiplexed by MAC on a transport channel.	
>>CHOICE *RLC size list*	MP			The RLC sizes that are allowed for this logical channel.	
>>>All			Null	All RLC sizes listed in the *Transport Format Set*. 10.3.5.23	
>>>Configured			Null	The RLC sizes configured for this logical channel in the *Transport Format Set*. 10.3.5.23 if present in this message or in the previously stored configuration	

Information Element/Group name	Need	Multi	Type and reference	Semantics description	Version
				otherwise	
>>>Explicit List		1 to <maxTF>		Lists the RLC sizes that are valid for the logical channel.	
>>>>RLC size index	MP		Integer(1..maxTF)	The integer number is a reference to the *RLC size* which arrived at that position in the *Transport Format Set* 10.3.5.23	
>>MAC logical channel priority	MP		Integer(1..8)	This is priority between a user's different RBs (or logical channels). [15]	
>Downlink RLC logical channel info	CV-*DL-RLC info*				
>>Number of downlink RLC logical channels	*MD*	1 to MaxLoCHperRLC		1 or 2 logical channels per RLC entity or radio bearer RLC [16] Default value is that parameter values for DL are exactly the same as for corresponding UL logical channel. In case two multiplexing options are specified for the UL, the first options shall be used as default for the DL. As regards to the IE "Channel type", rule is specified in 8.6.4.8.	
>>>Downlink transport channel type	MP		Enumerated(DCH,FACH, DSCH,DCH+ DSCH		
			, HS-DSCH, DCH + HS-DSCH)		REL-5
>>>DL DCH Transport channel identity	CV-*DL-DCH*		Transport channel identity 10.3.5.18		
>>>DL DSCH Transport channel identity	CV-*DL-DSCH*		Transport channel identity 10.3.5.18		
>>>DL HS-DSCH MAC-d flow identity	*C-DL-HS-DSCH*		MAC-d flow identity 10.3.5.7c		REL-5
>>>Logical channel identity	OP		Integer(1..15)	16 is reserved	

Condition	Explanation
UL-RLC info	If "CHOICE *Uplink RLC mode*" in the IE "RLC info" that applies for that RB (i.e. either the one stored or received in the same message for the RB for which the "RB mapping info" was received, or the one stored or received in the same message for the RB pointed at in the IE "Same as RB" in the IE "RB information to setup" stored or received in the same message) is present this IE is mandatory present. Otherwise the IE is not needed.
DL-RLC info	If "CHOICE *Downlink RLC mode*" in the IE "RLC info" that applies for that RB (i.e. either the one stored or received in the same message for the RB for which the "RB mapping info" was received, or the one stored or received in the same message for the RB pointed at in the IE "Same as RB" in the IE "RB information to setup" stored or received in the same message) is present this IE is mandatory present. Otherwise the IE is not needed.
UL-RLCLogicalChannels	If "Number of uplink RLC logical channels" in IE "RB mapping info" is 2, then this IE is mandatory present. Otherwise this IE is not needed.
UL-DCH/USCH	If IE "Uplink transport channel type" is equal to "DCH" or "USCH" (TDD only) this IE is mandatory present. Otherwise the IE is not needed.
DL-DCH	If IE "Downlink transport channel type" is equal to "DCH" ~~or~~. "DCH+DSCH" or "DCH + HS-DSCH" this IE is mandatory present. Otherwise the IE is not needed.
DL-DSCH	If IE "Downlink transport channel type" is equal to "DSCH" or "DCH+DSCH" this IE is mandatory present. Otherwise the IE is not needed.
DL-HS-DSCH	If IE "Downlink transport channel type" is equal to "HSDSCH" or "DCH + HS-DSCH" this IE is mandatory present. Otherwise the IE is not needed.

10.3.6.23a Downlink HS-PDSCH Information

Information Element/Group name	Need	Multi	Type and reference	Semantics description	Version
HS-SCCH Info	OP		HS-SCCH Info 10.3.6.36a		REL-5
Measurement Feedback Info	OP		Measurement Feedback Info 10.3.6.40a		REL-5
CHOICE mode	MP				REL-5
>TDD					
>>CHOICE *TDD option*	MP				REL-5
>>>3.84 Mcps					
>>>>HS-DSCH Timeslot Configuration	OP		10.3.6.xx		REL-5
>>> 1.28 Mcps					
>>>> HS-PDSCH Midamble Configuration	MP				
>>>>> Midamble Allocation Mode	MP		Enumerated(Default midamble, Common midamble, UE specific midamble)	This midamble allocation mode applies to all HS-PDSCH resources assigned to the UE.	REL-5
>>>>> Midamble Configuration	MP		Integer(2, 4, 6, 8, 10, 12, 14, 16)	This configuration applies to all HS-PDSCH resources assigned to the UE.	REL-5
>>>>> Midamble Shift	CV-UE		Integer(0..15)	This shift, when present, applies to all HS-PDSCH resources assigned to the UE.	REL-5
>FDD				(No data)	

[…]

11.3 Information element definitions

[…]

```
-- **************************************************
--
--      RADIO BEARER INFORMATION ELEMENTS (10.3.4)
--
-- **************************************************
```

[…]

```
DL-TransportChannelType ::=         CHOICE {
    dch                             TransportChannelIdentity,
    fach                            NULL,
    dsch                            TransportChannelIdentity,
    dch-and-dsch                    TransportChannelIdentityDCHandDSCH
}

DL-TransportChannelType-r5 ::=      CHOICE {
    dch                             TransportChannelIdentity,
    fach                            NULL,
```

```
    dsch                             TransportChannelIdentity,
    dch-and-dsch                     TransportChannelIdentityDCHandDSCH,
    hsdsch                           MAC-d-FlowIdentity,
    dch-and-hsdsch                   MAC-d-FlowIdentityDCHandHSDSCH
}


[ … ]

MAC-d-FlowIdentityDCHandHSDSCH ::=  SEQUENCE {
    dch-transport-ch-id              TransportChannelIdentity,
    hsdsch-transport-ch-id           MAC-d-FlowIdentity
}

[ … ]

TransportChannelIdentityDCHandDSCH  ::= SEQUENCE {
    dch-transport-ch-id              TransportChannelIdentity,
    dsch-transport-ch-id             TransportChannelIdentity
}


[ … ]


DL-HSPDSCH-Information ::=           SEQUENCE {
    hs-scch-Info                     HS-SCCH-Info OPTIONAL,
    measurement-feedback-Info        Measurement-Feedback-Info   OPTIONAL,
    modeSpecificInfo                 CHOICE {
        tdd                              CHOICE{
            tdd384                           SEQUENCE {
                dl-HSPDSCH-TS-Configuration DL-HSPDSCH-TS-Configuration    OPTIONAL
            },
            tdd128                           HS-PDSCH-Midamble-Configuration-TDD128
        },
        fdd                              NULL
    }
}
```

CR-Form-v7

CHANGE REQUEST

⌘	**25.331 CR 1963**	⌘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 **X** Radio Access Network **X** Core Network ☐

Title:	⌘	Explanation of CV-UE for the IE MidambleShift in the tabular

Source:	⌘	RAN WG2

Work item code:⌘	HSDPA-L23		*Date:* ⌘	19 May 2003

Category:	⌘	**F**		*Release:* ⌘	Rel-5

Use <u>one</u> of the following categories:
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Use <u>one</u> of the following releases:
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R96 *(Release 1996)*
R97 *(Release 1997)*
R98 *(Release 1998)*
R99 *(Release 1999)*
Rel-4 *(Release 4)*
Rel-5 *(Release 5)*
Rel-6 *(Release 6)*

Reason for change:	⌘	Explanation of CV-UE for the IE MidambleShift in the tabular Downlink HS-PDSCH information is missing.

Summary of change:⌘	Explanation of CV-UE for the IE MidambleShift in Downlink HS-PDSCH information is added.

Consequences if not approved:	⌘	Might lead to misunderstanding of when the IE MidambleShift in Downlink HS-PDSCH should be used.

Clauses affected:	⌘	10.3.6.23a

		Y	**N**		
Other specs affected:	⌘		**X**	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	

Other comments:	⌘	

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10.3.6.23a   Downlink HS-PDSCH Information

Information Element/Group name	Need	Multi	Type and reference	Semantics description	Version
HS-SCCH Info	OP		HS-SCCH Info 10.3.6.36a		REL-5
Measurement Feedback Info	OP		Measurement Feedback Info 10.3.6.40a		REL-5
CHOICE mode	MP				REL-5
>TDD					
>>CHOICE *TDD option*	MP				REL-5
>>>3.84 Mcps					
>>>>HS-DSCH Timeslot Configuration	OP		10.3.6.xx		REL-5
>>> 1.28 Mcps					
>>>> HS-PDSCH Midamble Configuration	MP				
>>>>> Midamble Allocation Mode	MP		Enumerated(Default midamble, Common midamble, UE specific midamble)	This midamble allocation mode applies to all HS-PDSCH resources assigned to the UE.	REL-5
>>>>> Midamble Configuration	MP		Integer(2, 4, 6, 8, 10, 12, 14, 16)	This configuration applies to all HS-PDSCH resources assigned to the UE.	REL-5
>>>>> Midamble Shift	CV-UE		Integer(0..15)	This shift, when present, applies to all HS-PDSCH resources assigned to the UE.	REL-5
>FDD				(No data)	

Condition	Explanation
UE	This IE is mandatory present when the value of the IE "Midamble Allocation Mode" is "UE specific midamble" and not needed otherwise.