## **RP-030688**

TSG RAN Meeting #22 Maui, USA, 9 - 12 December 2003

Title

Source Agenda Item

## CRs (Rel-5 only) to TS 25.423 and TS 25.433 on Correction of Backward Compatibility for Uni-directional DCH indicator TSG RAN WG3 7.4.6

RAN3 Tdoc	Spec	curr. Vers.	new Vers.	REL	CR	Rev	Cat	Title	Work item
R3-031485	25.423	5.7.0	5.8.0	REL-5	868	-	F	Correction of Backward Compatibility for Uni-directional DCH indicator.	TEI5
R3-031486	25.433	5.6.0	5.7.0	REL-5	902	-	F	Correction of Backward Compatibility for Uni-directional DCH indicator.	TEI5

## 3GPP TSG-RAN3 Meeting #39 San Diego, California, USA, 17 – 21 November 2003

# R3-031485

					CR-Form-v7
		CHANGE	REQUES	Т	
¥	<mark>25.423</mark>	CR <mark>868</mark>	жrev <mark>-</mark> ж	Current version:	<b>5.7.0</b> <sup>#</sup>
For <mark>HELP</mark> on us	ing this forn	n, see bottom of thi	s page or look at a	the pop-up text over	r the ೫ symbols.
Proposed change at	ffects: U	ICC apps <b>#</b>	ME <mark></mark> Radio	Access Network X	Core Network
Title: ೫	Correction	of Backward Comp	patibility for Uni-di	rectional DCH indica	ator
Source: ೫	RAN3				
Work item code: %	HSDPA-lu	blur		Date: ೫ 17	/11/2003
Category: #	F Use <u>one</u> of th F (corre A (corre B (addi C (func D (edito Detailed expl De found in 3	he following categorie ection) esponds to a correctio tion of feature), tional modification of orial modification) lanations of the above GPP <u>TR 21.900</u> .	s: on in an earlier relea feature) e categories can	Release: % Rel Use <u>one</u> of the fo 2 (GSI ase) R96 (Rela R97 (Rela R98 (Rela R99 (Rela Rel-4 (Rela Rel-5 (Rela Rel-6 (Rela	-5 ollowing releases: M Phase 2) ease 1996) ease 1997) ease 1998) ease 1999) ease 4) ease 5) ease 6)
Reason for change:	<ul> <li>"In RAbeen and been a this a composition of the second of t</li></ul>	AN#21, CR860 was added to indicate w allows to ignore the uting the CTFC. The ver, this IE was add ver of the message rectional DCH Indic been ignored) in the RRC (the one that C ion of CR860 and p a new IE to "reject"	approved. The U then a given DCH TFS either in UL us, the alignment ded with the critica does not underst ator IE and thus ta building of the T R860 intended to rovide full consist	nidirectional DCH In is unidirectional and or DL when building with RRC is kept. ality "ignore" which r and this new IE it w ake into account the FCS. This will creat correct). The only w ency with RRC is to	ndicator IE has d its "direction". the TFCS and means that if the ill ignore this TFS (that should e an inconsistency way to respect the set the criticality

# Summary of change: **\*** The criticality of the unidirectional parameter is changed to reject, since if the parameter is sent and not interpreted correctly, the best choice is to reject the radio link procedure.

#### 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 it might affect implementations supporting HSDPA.

This CR has an impact under [function] point of view. The impact [can] be considered isolated because the change affects [one] [system function] namely HSDPA.

*Consequences if* # If this CR is not approved it is possible that issues with backward incompatibility

not approved:	will go unnoticed when using this parameter.					
Clauses affected:	<b>%</b> 9.2.2.4A, 9.2.3.2A, 9.3.4					
Other specs affected:	Y       N         X       Other core specifications       X         X       Test specifications       X         X       O&M Specifications       X					
Other comments:	ж					

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

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

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

## 9.2.2.4A DCH FDD Information

The DCH FDD	Information I	Inrovides	information	for I	OCHs to	be established
Inc DCH I DD	injormation n	2 provides	mormation	101 1		oc established.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DCH FDD Information		1 <maxno ofDCHs&gt;</maxno 	Kelerence		_	
>Payload CRC Presence Indicator	М		9.2.1.42		_	
>UL FP Mode	М		9.2.1.67		-	
>ToAWS	М		9.2.1.58		—	
>ToAWE	М		9.2.1.57		-	
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			-	
>>DCH ID	М		9.2.1.16		-	
>>TrCH Source Statistics Descriptor	M		9.2.1.65		-	
>>Transport Format Set	М		9.2.1.64	For the UL.	_	
>>Transport Format Set	М		9.2.1.64	For the DL.	_	
>>BLER	М		9.2.1.4	For the UL.	-	
>>BLER	М		9.2.1.4	For the DL.	-	
>Allocation/Retention Priority	М		9.2.1.1		-	
>>Frame Handling Priority	М		9.2.1.29		-	
>>QE-Selector	М		9.2.1.46A		-	
>>DRAC control	М		9.2.2.13		-	
>Guaranteed Rate Information	0		9.2.1.30M		YES	ignore
>>Traffic Class	Μ		9.2.1.58A		YES	ignore
>>Unidirectional DCH Indicator	0		9.2.1.68B		YES	ignore <u>rejec</u> <u>t</u>

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

## <not affected part is omitted>

## 9.2.3.2A DCH TDD Information

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

IE/Group Name	Presence	Range	IE Type	Semantics	Criticality	Assigned Criticality	
			Reference	Description		Criticality	
DCH Information		1 <maxno< td=""><td></td><td></td><td>-</td><td></td></maxno<>			-		
		ofDCHs>					
>Payload CRC Presence	М		9.2.1.42		-		
Indicator							
>UL FP Mode	M		9.2.1.67		_		
>ToAWS	M		9.2.1.58		_		
>ToAWE	М		9.2.1.57		_		
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			_		
>>DCH ID	М		9.2.1.16		-		
>>CCTrCH ID	М		9.2.3.2	UL CCTrCH in which the DCH is	-		
				mapped			
>>CCTrCH ID	M		9.2.3.2	DL CCTrCH in which the DCH is mapped	_		
>>TrCH Source Statistics Descriptor	М		9.2.1.65		_		
>>Transport Format Set	М		9.2.1.64	For the UL.	_		
>>Transport Format Set	М		9.2.1.64	For the DL.	_		
>>BLER	М		9.2.1.4	For the UL.	_		
>>BLER	М		9.2.1.4	For the DL.	_		
>>Allocation/Retention Priority	М		9.2.1.1		_		
>>Frame Handling Priority	М		9.2.1.29		_		
>>QE-Selector	C- CoorDCH		9.2.1.46A		_		
>>Guaranteed Rate Information	0		9.2.1.30M		YES	ignore	
>>Traffic Class	Μ		9.2.1.58A		YES	ignore	
>>Unidirectional DCH Indicator	0		9.2.1.68B		YES	ignore <u>rejec</u> <u>t</u>	

Condition	Explanation
CoorDCH	The IE shall be present if this DCH is part of a set of coordinated
	DCHs (number of instances of the DCH Specific Info IE is greater
	than 1).

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

## <not affected part is omitted>

## 9.3.4 Information Element Definitions

-- Information Element Definitions

RNSAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) rnsap (1) version1 (1) rnsap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

--

IMPORTS
 maxCodeNumComp-1,
 maxNrOfFACHs,
 maxFACHCountPlus1,
 maxIBSEG,
 maxNoOfDSCHs,

#### <not affected part is omitted>

```
DCH-FDD-Information
                        ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-FDD-InformationItem
DCH-FDD-InformationItem ::= SEQUENCE {
    payloadCRC-PresenceIndicator
                                         PayloadCRC-PresenceIndicator,
    ul-FP-Mode
                                        UL-FP-Mode,
    toAWS
                                        TOAWS,
    toAWE
                                        TOAWE,
    dCH-SpecificInformationList
                                        DCH-Specific-FDD-InformationList,
                                        ProtocolExtensionContainer { {DCH-FDD-InformationItem-ExtIEs} } OPTIONAL,
    iE-Extensions
    . . .
DCH-FDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-Specific-FDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-FDD-Item
DCH-Specific-FDD-Item ::= SEQUENCE {
    dCH-ID
                                        DCH-ID,
    trCH-SrcStatisticsDescr
                                        TrCH-SrcStatisticsDescr,
    ul-transportFormatSet
                                        TransportFormatSet,
    dl-transportFormatSet
                                        TransportFormatSet,
    ul-BLER
                                        BLER,
    dl-BLER
                                        BLER,
```

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```
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```

```
allocationRetentionPriority
                                        AllocationRetentionPriority,
    frameHandlingPriority
                                        FrameHandlingPriority,
    gE-Selector
                                         OE-Selector.
    dRACControl
                                        DRACControl,
                                        ProtocolExtensionContainer { {DCH-FDD-SpecificItem-ExtIEs } } OPTIONAL,
    iE-Extensions
    . . .
DCH-FDD-SpecificItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                            CRITICALITY ignore EXTENSION Guaranteed-Rate-Information
    { ID id-Guaranteed-Rate-Information
                                                                                                             PRESENCE optional }
     ID id-TrafficClass
                                CRITICALITY ignore EXTENSION TrafficClass PRESENCE mandatory }
    { ID id-Unidirectional-DCH-Indicator
                                                                             EXTENSION Unidirectional-DCH-Indicator
                                                                                                                         PRESENCE optional },
                                                 CRITICALITY <del>ignore</del>reject
    . . .
DCH-ID
                        ::= INTEGER (0..255)
DCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem
DCH-InformationResponseItem ::= SEQUENCE {
    dCH-TD
                                DCH-ID,
    bindingID
                                BindingID
                                                         OPTIONAL,
    transportLayerAddress
                                TransportLayerAddress OPTIONAL,
    iE-Extensions
                                ProtocolExtensionContainer { {DCH-InformationResponseItem-ExtIEs } } OPTIONAL,
    . . .
DCH-InformationResponseItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
                                            CRITICALITY ignore EXTENSION Allowed-Rate-Information
    { ID id-Allowed-Rate-Information
                                                                                                          PRESENCE optional },
    . . .
DCH-TDD-Information
                        ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-TDD-InformationItem
DCH-TDD-InformationItem ::= SEQUENCE {
    payloadCRC-PresenceIndicator
                                         PayloadCRC-PresenceIndicator,
    ul-FP-Mode
                                         UL-FP-Mode,
    toAWS
                                        TOAWS,
    toAWE
                                         TOAWE,
    dCH-SpecificInformationList
                                         DCH-Specific-TDD-InformationList,
    iE-Extensions
                                         ProtocolExtensionContainer { {DCH-TDD-InformationItem-ExtIEs} } OPTIONAL,
    . . .
DCH-TDD-InformationItem-ExtIEs RNSAP-PROTOCOL-EXTENSION ::= {
    . . .
ļ
DCH-Specific-TDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-TDD-Item
DCH-Specific-TDD-Item ::= SEQUENCE {
    dCH-ID
                                         DCH-ID,
    ul-cCTrCH-ID
                                        CCTrCH-ID, -- UL CCTrCH in which the DCH is mapped
```

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	dl-cCTrCH-ID	CCTrCH-ID, DL CCTrCH in which the DCH is mapped
	trCH-SrcStatisticsDescr	TrCH-SrcStatisticsDescr,
	ul-transportFormatSet	TransportFormatSet,
	dl-transportFormatSet	TransportFormatSet,
	ul-BLER	BLER,
	dl-BLER	BLER,
	allocationRetentionPriority	AllocationRetentionPriority,
	frameHandlingPriority	FrameHandlingPriority,
	qE-Selector	QE-Selector OPTIONAL,
	This IE shall be present if DCH	is part of set of Co-ordinated DCHs
	iE-Extensions	ProtocolExtensionContainer { {DCH-Specific-TDD-Item-ExtIEs} } OPTIONAL,
}		
DCH-	Specific-TDD-Item-ExtIEs RNSAP-PROT	OCOL-EXTENSION ::= {
	[ ID id-Guaranteed-Rate-Information	CRITICALITY ignore EXTENSION Guaranteed-Rate-Information PRESENCE optional }
	{ ID id-TrafficClass CRITICA	LITY ignore EXTENSION TrafficClass PRESENCE mandatory}
	{ ID id-Unidirectional-DCH-Indicato	r CRITICALITY <u>ignorereject</u> EXTENSION Unidirectional-DCH-Indicator PRESENCE optional },
}		

## 3GPP TSG-RAN3 Meeting #39 San Diego, California, USA, 17 – 21 November 2003

# R3-031486

										CR-Form-v7
			CHANGE	REQ	UE	ST				
ж	25	5 <mark>.433</mark> CR	902	жrev	•	ж	Current vers	ion:	5.6.0	ж
For <u>HELP</u> or	using	this form, see	e bottom of this	s page or	look	at th	e pop-up text	over th	ne ¥ syr	nbols.
Proposed chang	e affeo	cts: UICC a	apps <b>#</b>	ME	Rac	dio A	ccess Networ	k X	Core Ne	twork
Title:	<mark>೫ C</mark>	prrection of Ba	ackward Comp	atibility fo	r Uni	-dire	ctional DCH i	ndicato	or	
Source:	<mark>೫    R/</mark>	AN3								
Work item code:	ж <mark>Н</mark>	SDPA-lublur					Date: ೫	17/1	1/2003	
Category:	H F Use Deta be f	a <u>one</u> of the folk <b>F</b> (correction) <b>A</b> (correspon <b>B</b> (addition of <b>C</b> (functional <b>D</b> (editorial mailed explanation ound in 3GPP	owing categories ds to a correction f feature), modification of t odification) ons of the above <u>TR 21.900</u> .	s: n in an ear feature) categories	r <i>lier re</i> s can	eleaso	Release: % Use <u>one</u> of 2 (P) R96 R97 R98 R99 Rel-4 Rel-5 Rel-6	Rel-5 the follo (GSM I (Releas (Releas (Releas (Releas (Releas (Releas	owing rele Phase 2) Se 1996) Se 1997) Se 1998) Se 1999) Se 4) Se 5) Se 6)	ases:
Reason for chan	ge: ¥	In RAN#2 been added This allows computing However, t Receiver o Unidirectio have been with RRC (	1, CR890 was d to indicate w to ignore the the CTFC. The his IE was add f the message nal DCH Indica ignored) in the the one that C CR890 and p	approved hen a give TFS eithe us, the alig led with th does not ator IE and building R890 inte	I. The en D( r in L gnme ne crit unde d thus of the nded	e Uni CH is JL or ent w ticali erstar s tak e TF( l to c	directional DC s unidirectiona DL when bui ith RRC is ke ty "ignore" wh nd this new IE e into accoun CS. This will c orrect). The o	CH Indi al and i Iding th pt. ich me it will t the T create a only wa	cator IE ts "direc e TFCS eans that ignore th FS (that an incon y to resp at the cri	has tion". and if the his should sistency bect the ticality

Summary of change: **%** The criticality of the unidirectional parameter is changed to reject, since if the parameter is sent and not interpreted correctly, the best choice is to reject the radio link procedure.

#### Impact Analysis:

of this new IE to "reject"."

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 it might affect implementations supporting HSDPA.

This CR has an impact under [function] point of view. The impact [can] be considered isolated because the change affects [one] [system function] namely HSDPA.

*Consequences if* # If this CR is not approved it is possible that issues with backward incompatibility

not approved:	will go unnoticed when using this parameter.					
Clauses affected:	<b>#</b> 9.2.2.4D, 9.2.3.4C, 9.3.4					
Other specs affected:	Y       N         X       Other core specifications       X         X       Test specifications       X         X       O&M Specifications       X					
Other comments:	ж					

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

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

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

## 9.2.2.4D DCH FDD Information

IE/Group Name	Presence	Range	IE Type	Semantics Description	Criticality	Assigned
			Reference	Description		Criticality
DCH FDD Information		1 <maxno ofDCHs&gt;</maxno 			_	
>Payload CRC Presence Indicator	М		9.2.1.49		_	
>UL FP Mode	М		9.2.1.66		-	
>ToAWS	М		9.2.1.61		-	
>ToAWE	М		9.2.1.60		-	
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			-	
>>DCH ID	М		9.2.1.20		-	
>>Transport Format Set	М		9.2.1.59	For UL	-	
>>Transport Format Set	М		9.2.1.59	For DL	-	
>>Allocation/Retention Priority	М		9.2.1.1A		-	
>>Frame Handling Priority	М		9.2.1.30		_	
>>QE-Selector	M		9.2.1.50A		_	
>>Unidirectional DCH Indicator	0		9.2.1.68		YES	ignore <u>reje</u> <u>ct</u>

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

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE

### <not affected part is omitted>

### 9.2.3.4C DCH TDD Information

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

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
DCH TDD Information		1 <maxno ofDCHs&gt;</maxno 			-	
>Payload CRC Presence Indicator	М		9.2.1.49		-	
>UL FP Mode	М		9.2.1.66		-	
>ToAWS	М		9.2.1.61		_	
>ToAWE	М		9.2.1.60		_	
>DCH Specific Info		1 <maxno ofDCHs&gt;</maxno 			-	
>>DCH ID	М		9.2.1.20		_	
>>CCTrCH ID	M		9.2.3.3	UL CCTrCH in which the DCH is mapped	_	
>>CCTrCH ID	M		9.2.3.3	DL CCTrCH in which the DCH is mapped	_	
>>Transport Format Set	М		9.2.1.59	For UL	_	
>>Transport Format Set	М		9.2.1.59	For DL	-	
>Allocation/Retention Priority	М		9.2.1.1A		_	
>>Frame Handling Priority	М		9.2.1.30		-	
>>QE-Selector	C- CoorDCH		9.2.1.50A		_	
>>Unidirectional DCH Indicator	0		9.2.1.68		YES	ignore <u>reje</u> <u>ct</u>

Condition	Explanation
CoorDCH	The IE shall be present if this DCH is part of a set of coordinated
	DCHs (number of instances of the DCH Specific Info IE is greater
	than 1).

Range Bound	Explanation
maxnoofDCHs	Maximum number of DCHs for one UE

<not affected part is omitted>

OPTIONAL,

OPTIONAL,

## 9.3.4 Information Elements Definitions

-- Information Element Definitions \_ \_ NBAP-IEs { itu-t (0) identified-organization (4) etsi (0) mobileDomain (0) umts-Access (20) modules (3) nbap (2) version1 (1) nbap-IEs (2) } DEFINITIONS AUTOMATIC TAGS ::= BEGIN IMPORTS maxNrOfRLs, maxNrOfTFCs, maxNrOfErrors, maxCTFC, maxNrOfTFs, <not affected part is omitted> DCH-FDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-FDD-InformationItem DCH-FDD-InformationItem ::= SEQUENCE { PayloadCRC-PresenceIndicator, payloadCRC-PresenceIndicator ul-FP-Mode UL-FP-Mode, toAWS TOAWS, toAWE TOAWE, dCH-SpecificInformationList DCH-Specific-FDD-InformationList, ProtocolExtensionContainer { { DCH-FDD-InformationItem-ExtIEs } } iE-Extensions . . . DCH-FDD-InformationItem-Extles NBAP-PROTOCOL-EXTENSION ::= { . . . } DCH-Specific-FDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-FDD-Item DCH-Specific-FDD-Item ::= SEQUENCE { dCH-ID DCH-ID, ul-TransportFormatSet TransportFormatSet, dl-TransportFormatSet TransportFormatSet, allocationRetentionPriority AllocationRetentionPriority, frameHandlingPriority FrameHandlingPriority, qE-Selector OE-Selector, ProtocolExtensionContainer { { DCH-Specific-FDD-Item-ExtIEs } } iE-Extensions . . .

```
3GPP TS 25.433 v5.6.0
```

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```
DCH-Specific-FDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    { ID id-Unidirectional-DCH-Indicator
                                            CRITICALITY ignorereject
                                                                         EXTENSION Unidirectional-DCH-Indicator
                                                                                                                      PRESENCE optional },
    . . .
DCH-InformationResponse ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-InformationResponseItem
DCH-InformationResponseItem ::= SEQUENCE {
    dCH-ID
                                                     DCH-ID,
    bindingID
                                                     BindingID
                                                                             OPTIONAL,
    transportLayerAddress
                                                     TransportLayerAddress OPTIONAL,
    iE-Extensions
                                                     ProtocolExtensionContainer { { DCH-InformationResponseItem-ExtIEs } }
                                                                                                                               OPTIONAL,
    . . .
DCH-InformationResponseItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
}
DCH-TDD-Information ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-TDD-InformationItem
DCH-TDD-InformationItem ::= SEQUENCE {
    payloadCRC-PresenceIndicator
                                         PayloadCRC-PresenceIndicator,
    ul-FP-Mode
                                        UL-FP-Mode,
    toAWS
                                        TOAWS,
    toAWE
                                        TOAWE,
    dCH-SpecificInformationList
                                         DCH-Specific-TDD-InformationList,
    iE-Extensions
                                             ProtocolExtensionContainer { { DCH-TDD-InformationItem-ExtIEs } }
                                                                                                                         OPTIONAL,
DCH-TDD-InformationItem-ExtIEs NBAP-PROTOCOL-EXTENSION ::= {
    . . .
DCH-Specific-TDD-InformationList ::= SEQUENCE (SIZE (1..maxNrOfDCHs)) OF DCH-Specific-TDD-Item
DCH-Specific-TDD-Item ::= SEQUENCE {
    dCH-ID
                                             DCH-ID,
    ul-CCTrCH-ID
                                             CCTrCH-ID,
    dl-CCTrCH-ID
                                             CCTrCH-ID,
    ul-TransportFormatSet
                                             TransportFormatSet,
    dl-TransportFormatSet
                                             TransportFormatSet,
    allocationRetentionPriority
                                             AllocationRetentionPriority,
    frameHandlingPriority
                                             FrameHandlingPriority,
                                             QE-Selector
                                                                              OPTIONAL,
    qE-Selector
    -- This IE shall be present if DCH is part of set of Coordinated DCHs
    iE-Extensions
                                             ProtocolExtensionContainer { { DCH-Specific-TDD-Item-ExtIEs } }
                                                                                                                         OPTIONAL,
    . . .
```

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}

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DCH-Specific-TDD-Item-ExtIEs NBAP-PROTOCOL-EXTENSION ::= { { ID id-Unidirectional-DCH-Indicator CRITICALITY <del>ignore</del>reject EXT

EXTENSION Unidirectional-DCH-Indicator

PRESENCE optional },

...