TSG-RAN Meeting #15 Jeju-do, Korea, 5 - 8 March 2002

Title: Agreed CRs (Rel-5) for WI "Enhancement on the DSCH hard split mode"

Source: TSG-RAN WG2

Agenda item: 9.2.6

Doc-1st-	Status-	Spec	CR	Rev	Phase	Subject	Cat	Version	Versio	Workite
R2-020386	agreed	25.331	1129	2	Rel-5	Support of flexible hard split mode	В	4.3.0	5.0.0	RInImp- DSCHhs p

R2-020386

			СНА	NGE	REQ	UEST	-			CR-Form-v5
ж	25.3	<mark>331</mark> (CR <mark>112</mark>	9	rev،	r2 [#]	Current ver	sion:	4.3.0	ж
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the # symbols.										
Proposed change a	affects	s: X	(U)SIM	ME/L	JE X	Radio A	ccess Networ	k X	Core Ne	etwork
Title: #	Supp	oort of	flexible har	d split moo	de					
Source: ೫	TSG	-RAN \	WG2							
Work item code: %	Rinir	<mark>mp-DS</mark>	CHhsp				Date: ¥	2002 2002	2-02-15	
Category: ₩	F A B C D Detaile	(corre (corre (addit (funct (funct (edito	e following c ction) sponds to a ion of feature ional modific rial modificat anations of th GPP <u>TR 21.5</u>	correction i e), ation of fea tion) ne above ca	ature)		Release: # Use <u>one</u> or 2 e) R96 R97 R98 R99 REL-4 REL-5	f the foll (GSM (Relea (Relea (Relea	lowing rele Phase 2) ase 1996) ase 1997) ase 1998) ase 1999) ase 4)	eases:
Reason for change		An exp	pected impa	act on RAI	N WG2	was alrea	nhance the cu ady clarified a ts such inpac	and app	proved du	uring the
Summary of chang		Remov of five		riction that	t TFCI	(field1) ai	nd TFCI (field	l2) hav	e a static	length
Consequences if not approved:			not support e of release			t mode w	hich was alre	ady ap	proved n	ew
Clauses affected:	ж	10.3.5	.20							
Other specs affected:	ж	Tes	er core spe t specificati M Specifica	ons	s ¥					
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/3G_Specs/CRs.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.

10.3.5.20 Transport Format Combination Set

Indicates the allowed combinations of already defined Transport formats and the mapping between these allowed TFCs and the corresponding TFCI values.

For TDD, different coded composite transport channels have independent transport format combination sets and thus independent TFCI values.

For FDD, Where the UE is assigned access to one or more DSCH transport channels, a TFCI(field2) is used to signal the transport format combination for the DSCH. The following two cases exist:

Case 1:

Using one TFCI-word on the physical layer. A logical split determines the available number of transport format combinations for DCH and DSCH.

- Case 2:

Using split TFCI on the physical layer. Two TFCI-words, <u>TFCI (field1) and TFCI (field2)</u>, each having a static length of five bits, are used and they are block coded separately.

Information Element/Group name	Need	Multi	IE type and reference	Semantics description
CHOICE TFCI signalling	MP			'Normal' : meaning no split in the TFCI field (either 'Logical' or 'Hard') 'Split' : meaning there is a split in the TFCI field (either 'Logical' or 'Hard'). This value is only valid for FDD downlink when using DSCH.
>Normal	MD		TEOO	
>>TFCI Field 1 Information	MP		TFCS explicit Configuratio n 10.3.5.13	
>Split				
>>Split type	OP		Enumerated ('Hard', 'Logical')	'Hard' : meaning that TFCI (field 1) and TFCI (field 2) are each 5 bits long and each field is-block coded separately. 'Logical' : meaning that on the physical layer TFCI (field 1) and TFCI (field 2) are concatenated, field 1 taking the most significant bits and field 2 taking the least significant bits). The whole is then encoded with a single block code.
>>Length of TFCI(field2)	OP		Integer (110)	This IE indicates the length measured in number of bits of TFCI(field2)
>>TFCI Field 1 Information	OP		TFCS explicit Configuratio n 10.3.5.13	
>>TFCI Field 2 Information	OP		TFCI field 2 information 10.3.5.12	

CHOICE TFCI signalling	Condition under which <i>TFCI signalling type</i> is chosen
Normal	It is chosen when no split in the TFCI field.
Split	It is chosen when split in the TFCI field. This value is only valid for FDD downlink when using DSCH.

10.3.5.21 Transport Format Combination Set Identity

NOTE: Only for TDD.

Information Element/Group name	Need	Multi	Type and reference	Semantics description
TFCS ID	MD		Integer (18)	Indicates the identity of every TFCS within a UE. Default value is 1.
Shared Channel Indicator	MP		Boolean	TRUE indicates the use of shared channels. Default is false.

10.3.5.22 Transport Format Combination Subset

Indicates which Transport format combinations in the already defined Transport format combination set are allowed.

Information Element/Group name	Need	Multi	Type and reference	Semantics description
CHOICE Subset representation	MP			
>Minimum allowed Transport			Transport	
format combination index			format	
			combination	
			10.3.5.19	
>Allowed transport format		1 to		
combination list		<maxtfc></maxtfc>		
>>Allowed transport format	MP		Transport	
combination			format	
			combination	
			10.3.5.19	
>Non-allowed transport format		1 to		
combination list	MP	<maxtfc></maxtfc>	Tasasant	
>>Non-allowed transport format combination	MP		Transport format	
combination			combination	
			10.3.5.19	
>Restricted TrCH information		1 to	10.3.3.13	
		<maxtrch< td=""><td></td><td></td></maxtrch<>		
		>		
>>Uplink transport channel type	MP		Enumerated(USCH is TDD only
			DCH, USCH)	, ,
>>Restricted UL TrCH identity	MP		Transport	
			channel	
			identity	
			10.3.5.18	
>>Allowed TFIs	OP	1 to		
		<maxtf></maxtf>		
>>>Allowed TFI	MP		Integer(031	
)	
>Full transport format				(No data)
combination set				