## TSG RAN Meeting #28 Quebec, Canada, 01 - 03 June 2005 Title CRs (Rel-5 & Rel-6) for the removal of 80 ms TTI for DCH

# SourceTSG RAN WG3Agenda Item7.7.1

RAN3 Tdoc	Spec	CR	Rev	Cat	curr. Vers.	new Vers.	Rel	Work item	Title
R3-050795	25.423	1070	1	С	5.13.0	5.14.0	Rel-5	TEI5	Feature Clean-up: Removal of 80 ms TTI for DCH for all other cases but when the UE supports SF512
R3-050796	25.423	1071	1	С	6.5.0	6.6.0	Rel-6	TEI5	Feature Clean-up: Removal of 80 ms TTI for DCH for all other cases but when the UE supports SF512
R3-050797	25.433	1115	1	С	5.12.0	5.13.0	Rel-5	TEI5	Feature Clean-up: Removal of 80 ms TTI for DCH for all other cases but when the UE supports SF512
R3-050798	25.433	1116	1	С	6.5.0	6.560	Rel-6	TEI5	Feature Clean-up: Removal of 80 ms TTI for DCH for all other cases but when the UE supports SF512

# Tdoc **#R3-050795**

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		C	HANGE	E REQ	UES	Г		
H	<mark>25.423</mark>	CR	1070	жrev	<mark>1</mark> <sup>អ</sup>	Current vers	<sup>ion:</sup> <mark>5.13.0</mark> <sup>8</sup>	Ħ
For <u>HELP</u> on us	sing this fo	rm, see b	ottom of th	is page or	look at ti	he pop-up text	over the	ools.
Proposed change a	ffects:	UICC app	os₩	MEX	Radio /	Access Networ	k 🗶 Core Netv	vork
Title: अ	Feature C supports	Clean-up: SF512	Removal o	f 80 ms T1	I for DC	H for all other o	cases but when t	he UE
Source: ೫	RAN3							
Work item code: ೫	TEI5					<i>Date:</i> ೫	09/05/2005	
Category: ೫	C Use <u>one</u> of F (cc Release B (ac C (fu D (cc D tailed ex be found in	the follow, prection) presponds ddition of fr nctional mo ditorial mo planations 3GPP <u>TR</u>	ing categories to a correct eature), nodification o dification) $\circ$ of the above 21.900.	es: tion in an ea f feature) e categories	arlier s can	Release: ¥ Use <u>one</u> of Ph2 R96 R97 R98 R99 Rel-4 Rel-5 Rel-6 Rel-7	Rel-5 the following relea (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5) (Release 6) (Release 7)	ses:
Reason for change	: ೫ TSG excep	RAN#27 t when the	tasked to rer SF=512.	nove the 80	ms TTI f	or DCH from the	e all the other DCI	H cases,
Summary of change	e: # REV1 Text i REV0 80 ms	: n Semanti  ): TTI for D	cs descriptic	on of Transr	nission T	ime Interval IE	was modified.	 F=512.
Consequences if not approved:	ж							
Clauses affected:	<mark>೫ 9.2.</mark> ′	1.64						
		7						

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

- 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.

## 9.2.1.64 Transport Format Set

The Transport Format Set is defined as the set of Transport Formats associated to a Transport Channel, e.g. DCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dynamic Transport Format Information		1 <maxtfcount></maxtfcount>		The first instance of the parameter corresponds to TFI zero, the second to 1 and so on.
>Number of Transport Blocks	М		INTEGER (0512)	
>Transport Block Size	C – Blocks		INTEGER (05000)	Unit: Bits
>CHOICE Mode	М			
>>TDD				
>>>Transmission Time Interval Information	C- TTIdynamic	1 <maxtticount></maxtticount>		
>>>>Transmission Time Interval	M		ENUMERAT ED(10, 20, 40, 80,)	Unit: msec
Semi-static Transport Format Information		1		
>Transmission Time Interval	Μ		ENUMERAT ED (10, 20, 40, 80, dynamic, )	Unit: msec Value "dynamic" for TDD only
>Type of Channel Coding	М		ENUMERAT ED (No codingTDD, Convolutiona I. Turbo)	[FDD - The value "No codingTDD" shall be treated as logical error if received]
>Coding Rate	C – Coding		ENUMERAT ED (1/2, 1/3,)	
>Rate Matching Attribute	М		INTEGER (1maxRM)	
>CRC size	М		ENUMERAT ED (0, 8, 12, 16, 24,)	
>CHOICE Mode	М			
>>TDD				
>>>2 <sup>nd</sup> Interleaving Mode	М		ENUMERAT ED(Frame related, Timeslot related,)	

Condition	Explanation
Blocks	The IE shall be present if the Number of Transport Blocks IE is set
	to a value greater than 0.
Coding	The IE shall be present if <i>Type of Channel Coding</i> IE is set to
	"Convolutional" or "Turbo".
TTIdynamic	The IE shall be present if the Transmission Time Interval IE in the
	Semi-static Transport Format Information IE is set to "dynamic".

Range bound	Explanation
maxTFcount	The maximum number of different transport formats that can be
	included in the Transport format set for one transport channel.
maxRM	The maximum number that could be set as rate matching attribute
	for a transport channel.
maxTTlcount	The amount of different TTI that are possible for that transport
	format is.

			С	HANG		UE	ST			C	CR-Form-v7.1
æ	25.	.423	CR	1071	ж <b>rev</b>	1	Ħ	Current ver	sion:	6.5.0	ж
For <mark>HELP</mark> on u	ising t	his for	m, see l	bottom of t	his page o	· look	at the	e pop-up tex	t over	<sup>-</sup> the	mbols.
Proposed change	affect	t <b>s:</b> L	JICC ap	ops#	ME	Rad	dio A	ccess Netwo	ork <mark>X</mark>	Core Ne	etwork
Title: ೫	Fea sup	ture Cl ports (	lean-up SF512	: Removal	of 80 ms T	TI for	DCH	l for all othe	<sup>-</sup> case	s but wher	n the UE
Source: भ	RA	N3									
Work item code: ℜ	TEI	5						Date: 🖁	6 <mark>09</mark> /	/05/2005	
Category:% CRelease: % Rel-6Use one of the following categories: F (correction)With the following categories: F (correction)Ph2(GSM Phase 2)A (corresponds to a correction in an earlier release)Ph2(GSM Phase 2)B (addition of feature), C (functional modification of feature) D (editorial modification)R98(Release 1996)D tetailed explanations of the above categories can be found in 3GPP TR 21.900.Rel-4(Release 6) Rel-7 (Release 7)								pases:			
Reason for change	e: #	TSG I except	RAN#27 when th	tasked to r e SF=512.	emove the 8	0ms T	TI foi	r DCH from t	he all	the other D	CH cases,
Summary of change: # REV1: Text in Semantics description of Transmission Time Interval IE was modified. REV0: 80 ms TTI for DCH is removed from all other spreading factors except when the SF=51:							SF=512.				
Consequences if not approved:	Ħ										
Clauses affected:	Ħ	9.2.1	.64								
Other specs affected:	ж	Y N X J X X	Other Test s	core speci pecificatio	fications ns	æ	25.10 25.42 34.10	)1, 25.133, 2 23, 25.433 )8, 34.121, 3	5.212 4.123	, 25.306, 2 -	25.331,

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

- 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.

## 9.2.1.64 Transport Format Set

The Transport Format Set is defined as the set of Transport Formats associated to a Transport Channel, e.g. DCH.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
		3	Reference	••••
Dynamic Transport		1 <maxtfcount></maxtfcount>		The first instance of the
Format Information				parameter corresponds to TFI
				zero, the second to 1 and so
Number of Trepopert	N.4			on.
Sinumber of Transport	IVI		(0.512)	
Transport Block Size	C – Blocks		INTEGER	Unit: Bits
	C DIOORO		(05000)	
>CHOICE Mode	М			
>>TDD				
>>>Transmission	C-	1 <maxttlcount></maxttlcount>		
Time Interval	TTIdynamic			
Information				
>>>>Transmission	М		ENUMERAT	Unit: msec
lime Interval			ED(10, 20,	
Semi-static Transport		1	40, 80,)	
Format Information				
>Transmission Time	М		ENUMERAT	Unit: msec
Interval			ED	Value "dynamic" for TDD
			(10, 20, 40,	only <u>.</u>
			80, dynamic,	For FDD DCH, the value "80"
			)	is applicable only when DL
				DPCH Slot Format IE
				SE-512
>Type of Channel	M		ENUMERAT	[EDD - The value "No
Codina			ED	codingTDD" shall be treated
5 5 5			(No	as logical error if received]
			codingTDD,	
			Convolutiona	
			I, Turbo,)	
>Coding Rate	C – Coding		ENUMERAT	
			ED (1/2 1/2 )	
>Rate Matching	М		INTEGER	
Attribute	101		(1maxRM)	
>CRC size	М		ENUMERAT	
			ED	
			(0, 8, 12, 16,	
			24,)	
>CHOICE Mode	М			
>>TDD				
>>>2 <sup>™</sup> Interleaving	M			
iviode				
			Timeslot	
			related)	

Condition	Explanation
Blocks	The IE shall be present if the Number of Transport Blocks IE is set
	to a value greater than 0.
Coding	The IE shall be present if <i>Type of Channel Coding</i> IE is set to
	"Convolutional" or "Turbo".
TTIdynamic	The IE shall be present if the Transmission Time Interval IE in the
	Semi-static Transport Format Information IE is set to "dynamic".

Range bound	Explanation
maxTFcount	The maximum number of different transport formats that can be
	included in the Transport format set for one transport channel.
maxRM	The maximum number that could be set as rate matching attribute
	for a transport channel.
maxTTlcount	The amount of different TTI that are possible for that transport
	format is.

# *Tdoc* **#***R*3-050797

								CR-Form	n-v7.1
ж	25	.433	CR	1115	жrev	1	ж	Current version: <b>5.12.0</b> #	
For <u>HELP</u> on	using	this for	m, see	bottom of	this page or	look	at th	ne pop-up text over the X symbols.	-
Proposed change	affec	<i>ts:</i> l	JICC a	pps೫	MEX	Rad	dio A	Access Network X Core Network	< 🗌
Title:	f Fea	ature C	lean-ur	o: Removal	l of 80 ms T	TI for	DCH	H for all other cases but when the	UE
	sup	oports	SF512						
Source:	<b>€ RA</b>	N3							
Work item code: 8	<b>€</b> ΤΕ	15						Date: # 09/05/2005	
Category:	t Use	one of	the follo	wina catead	ories:			Use one of the following releases:	
	000	<b>F</b> (co	rrection)	)				Ph2 (GSM Phase 2)	
		A (co	rrespon	ds to a corre	ection in an e	arlier		R96 (Release 1996) R97 (Release 1997)	
		B (ad	, Idition of	f feature),				R98 (Release 1998)	
		C (fui	nctional	modification	n of feature)			R99 (Release 1999)	
	Deta	<b>D</b> (ea	olanatio	ns of the ab	ove categorie	s can		Rel-4 (Release 4) Rel-5 (Release 5)	
	be fo	ound in	3GPP <mark>T</mark>	<u>R 21.900</u> .	ere ealegene	0 00		Rel-6 (Release 6)	
								Rel-7 (Release 7)	
		-							
Reason for chang	<b>је:</b> Ж	TSG	RAN#2 when t	7 tasked to $1$	remove the 8	)ms T	TI fo	or DCH from the all the other DCH ca	ises,
		слеері	when u	lic 51 <sup>-</sup> -512.					
Summary of chan	iqe:ж	REV1	:						
2	0	Torrtia	Saman	tion donomin	tion of Trong			ma Interval III was madified	
		Text II	i Seman	lucs descrip	MOILOI OF FRANS	missic	)[1 1]	me mervai in was modified.	
		REV0	:						
		80 ms	TTI for	DCH is ren	noved from a	ll othe	er spr	reading factors except when the SF=5	12.
Consequences if not approved:	ж								
	٥٥	0.0.4	50						
Ciauses affected:	ж	9.2.1	.59						
	0.0	YN	045		if and and	0.0			1
other specs	ж	X	Other	core spec	cifications	ж	25.10	01, 25.133, 25.212, 25.306, 25.33	Т,

25.423, 25.433 34.108, 34.121, 34.123-

Test specifications X O&M Specifications

affected:

3GPP

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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.

## 9.2.1.59 Transport Format Set

The Transport Format Set is defined as the set of Transport Formats associated to a Transport Channel, e.g. DCH.

IE/Group Name	Presence	Range	IE Type and	Semantics Description
Dynamic Transport Format Information		1 <maxtf count&gt;</maxtf 	Reference	The first instance of the parameter corresponds to TFI zero, the second to 1 and so on.
>Number of Transport Blocks	М		INTEGER (0512)	
>Transport Block Size	C-Blocks		INTEGER (05000)	Unit: Bits
>CHOICE Mode	M		- (	
>>TDD				
>>>Transmission Time Interval Information	C- TTIdynami c	1 <maxtt Icount&gt;</maxtt 		
>>>>Transmission Time Interval	М		ENUMERATED (10, 20, 40, 80,)	Unit: ms
Semi-Static Transport Format Information		1		
>Transmission Time Interval	М		ENUMERATED (10, 20, 40, 80, dynamic,,5)	Unit: ms; Value "dynamic" for TDD only; Value "5" for LCR TDD only <u>:</u> For FDD DCH, the value "80" is applicable only when <i>DL</i> . <u>DPCH Slot Format IE indicates</u> a slot format with SF=512.
>Type Of Channel Coding	М		ENUMERATED ( No codingTDD, Convolutional, Turbo, )	[FDD - The value "No codingTDD" shall be treated as logical error if received]
>Coding Rate	C-Coding		ENUMERATED (1/2, 1/3,)	
>Rate Matching Attribute	М		INTEGER (1maxRM)	
>CRC Size	М		ENUMERATED (0, 8, 12, 16, 24,)	
>CHOICE Mode	М			
>>TDD				
>>>2 <sup>nd</sup> Interleaving Mode	М		ENUMERATED ( Frame related, Timeslot related, )	

Condition	Explanation
Blocks	The IE shall be present if the Number Of Transport Blocks IE is set to
	a value greater than 0.
Coding	The IE shall be present if the Type Of Channel Coding IE is set to
	"Convolutional" or "Turbo".
TTIdynamic	The IE shall be present if the Transmission Time Interval IE in the
	Semi-Static Transport Format Information IE is set to "dynamic".

Range Bound	Explanation
maxTFcount	Maximum number of different Transport Formats that can be included
	in the Transport Format Set for one transport channel
maxRM	Maximum number that could be set as rate matching attribute for a
	transport channel
maxTTlcount	The amount of different TTIs that are possible for that Transport
	Format

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æ	25	.433	CR	1116	жrev	1	Ħ	Current ver	rsion:	6.5.0	ж
For <b>HELP</b> on using this form, see bottom of this page or look at the pop-up text over the <b>#</b> symbols.							mbols.				
Proposed change	affec	<i>ts:</i>	JICC ap	ps#	ME	Rad	lio Ac	ccess Netwo	ork X	Core Ne	etwork
Title: #	Fea sup	ture Coports	lean-up SF512	: Removal o	of 80 ms T	TI for	DCH	for all othe	r case	s but whe	n the UE
Source: ж	RA	N3									
Work item code: ૠ	TE	15						Date:	₩ <mark>09</mark> ,	/05/2005	
Category:  % C  Release: % Rel-6    Use one of the following categories:  F (correction)    A (corresponds to a correction in an earlier release)  B (addition of feature),    B (addition of feature),  C (functional modification of feature)    D (editorial modification)  Release 1999)    D tetailed explanations of the above categories can be found in 3GPP TR 21.900.  Rel-4 (Release 6)											
<b>Reason for change:</b> # TSG RAN#27 tasked to remove the 80ms TTI for DCH from the all the other DCH cases, except when the SF=512.											
Summary of change: #  REV1:    Text in Semantics description of Transmission Time Interval IE was modified.											
Consequences if not approved:	ж										
Clauses affected:	ж	9.2.1	.59								
Other specs affected:	ж	Y N X J X X	Other Test s O&M S	core specif pecification Specificatio	ications s ns	ж <mark>2</mark> 2 3	25.10 25.42 34.10	1, 25.133, 2 3, 25.433 8, 34.121, 3	25.212 34.123	25.306, 2 -1	25.331,

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

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## 9.2.1.59 Transport Format Set

The Transport Format Set is defined as the set of Transport Formats associated to a Transport Channel, e.g. DCH.

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dynamic Transport Format Information		1 <maxtf count&gt;</maxtf 	Reference	The first instance of the parameter corresponds to TFI zero, the second to 1 and so on.
>Number of Transport Blocks	М		INTEGER (0512)	
>Transport Block Size	C-Blocks		INTEGER (05000)	Unit: Bits
>CHOICE Mode	М		· · · · · · · · · · · · · · · · · · ·	
>>TDD				
>>>Transmission Time Interval Information	C- TTIdynami c	1 <maxtt lcount&gt;</maxtt 		
>>>>Transmission Time Interval	М		ENUMERATED (10, 20, 40, 80,)	Unit: ms
Semi-Static Transport Format Information		1		
>Transmission Time Interval	М		ENUMERATED (10, 20, 40, 80, dynamic,,5)	Unit: ms; Value "dynamic" for TDD only; Value "5" for LCR TDD only <u>;</u> For FDD DCH, the value "80" is applicable only when DL. DPCH Slot Format IE indicates a slot format with SF=512.
>Type Of Channel Coding	М		ENUMERATED ( No codingTDD, Convolutional, Turbo, )	[FDD - The value "No codingTDD" shall be treated as logical error if received]
>Coding Rate	C-Coding		ENUMERATED (1/2, 1/3,)	
>Rate Matching Attribute	М		INTEGER (1maxRM)	
>CRC Size	М		ENUMERATED (0, 8, 12, 16, 24,)	
>CHOICE Mode	Μ			
>>TDD				
>>>2 <sup>nd</sup> Interleaving Mode	M		ENUMERATED ( Frame related, Timeslot related,	

Condition	Explanation
Blocks	The IE shall be present if the Number Of Transport Blocks IE is set to
	a value greater than 0.
Coding	The IE shall be present if the Type Of Channel Coding IE is set to
	"Convolutional" or "Turbo".
TTIdynamic	The IE shall be present if the Transmission Time Interval IE in the
	Semi-Static Transport Format Information IE is set to "dynamic".

Range Bound	Explanation
maxTFcount	Maximum number of different Transport Formats that can be included
	in the Transport Format Set for one transport channel
maxRM	Maximum number that could be set as rate matching attribute for a
	transport channel
maxTTlcount	The amount of different TTIs that are possible for that Transport
	Format