## TSG RAN Meeting #19 Birmingham, UK, 11 - 14 March 2003

RP-030069

Title CRs (Rel-4 and Rel-5 Category A) to TS 25.423 and 25.433 on Clarification to

2nd Interleaving Mode for TDD

Source TSG RAN WG3

Agenda Item 8.3.6

RAN3 Tdoc	Spec	curr. Vers.	new Vers.	REL	CR	Rev	Cat	Title	Work item
R3-030064	25.423	4.7.0	4.8.0	REL-4	771	-	F	Clarification to 2nd Interleaving Mode for TDD	TEI4
R3-030065	25.423	5.4.0	5.5.0	REL-5	772	-	Α	Clarification to 2nd Interleaving Mode for TDD	TEI4
R3-030062	25.433	4.7.0	4.8.0	REL-4	795	-	F	Clarification to 2nd Interleaving Mode for TDD	TEI4
R3-030063	25.433	5.3.0	5.4.0	REL-5	796	-	Α	Clarification to 2nd Interleaving Mode for TDD	TEI4

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Work item code: ₩	TE	4							Dat	e: #	10/0	1/2003	
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affected:	X Test specifications O&M Specifications
Other comments:	<b>≖</b>

- 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 <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> 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

[TDD - The Transport Format Set for each transport channel within the same CCTrCH shall have the same value for the  $2^{nd}$  Interleaving Mode IE]

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)	Bits
>CHOICE Mode >>TDD	M			
>>>Transmission Time Interval Information	C- TTIdynamic	1 <maxttlcount></maxttlcount>		
>>>Transmission Time Interval	М		ENUMERAT ED(10, 20, 40, 80,)	msec
Semi-static Transport Format Information		1		
>Transmission Time Interval	М		ENUMERAT ED (10, 20, 40, 80, dynamic, )	msec Value "dynamic" for TDD only
>Type of Channel Coding	M		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	M		INTEGER (1maxRM)	
>CRC size	M		ENUMERAT ED (0, 8, 12, 16, 24,)	
>CHOICE Mode >>TDD	М			
>>>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 Type of Channel Coding IE is set to
	"Convolutional" or "Turbo".
TTIdynamic	The IE shall be present if the <i>Transmission Time Interval</i> 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.

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affected:	X Test specifications O&M Specifications
Other comments:	<b>≖</b>

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>CRC size	M		ENUMERAT ED (0, 8, 12, 16, 24,)	
>CHOICE Mode >>TDD	М			
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For HELP on using this form, see bottom of this page or look at the pop-up text over the \$\pi\$ symbols  Froz HELP on using this form, see bottom of this page or look at the pop-up text over the \$\pi\$ symbols  Froz HELP on using this form, see bottom of this page or look at the pop-up text over the \$\pi\$ symbols  ME Radio Access Network \( \) Core Network  Title: \$\pi\$ Clarification to 2^{nd} Interleaving Mode for TDD  Source: \$\pi\$ RAN WG3  Work item code: \$\pi\$ TEI4 Date: \$\pi\$ 10/01/2003  Work item code: \$\pi\$ TEI4 Date: \$\pi\$ 10/01/2003  Category: \$\pi\$ F Release: \$\pi\$ Release: \$\pi\$ Rel-4 Use one of the following releases: \$\pi\$ (correction) 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 of feature) R99 (Release 1998) Detailed explanations of the above categories can be found in 3GPP TR 21.900. Rel-5 (Release 6)  Reason for change: \$\pi\$ In current NBAP specification, 2^{nd} interleaving mode indicates if it is frame related or timeslot related. In RN11 TS25.222 section 4.2.11, there is stated that this will applied on which the CCTrCH is mapped, so it is not associated with a transportament, but with a CCTrCH.  So in current specification, in order to avoid confusion, it would clarify that in mode, the 2^{nd} Interleaving Mode should be set for the same value within the same CCTrCH.  Impact Analysis: Impact analysis: Impact analysis: Impact assessment towards the previous version of the specification (same release):  The impact Can be considered isolated because the changes only affect 2^{nd} interleaving mode will be ambiguous for TDD mode.  Consequences if \$\pi\$ If this CR is not approved, 2^{nd} interleaving mode will be ambiguous for TDD mode.  Will Other specs \$\pi\$ X I Other core specifications \$\pi\$ 25.433 Rel-5 CR796		CHANGE REQUEST	orm-v7
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Use one of the following categories:  F (correction)  A (corresponds to a correction in an earlier release)  B (addition of feature), C (functional modification of feature) R97 (Release 1997) C (functional modification of feature) R98 (Release 1998) D (editorial modification) R99 (Release 1999) D (editorial modification) R99 (Release 1999) D (editorial modification) R99 (Release 1999) Rel-6 (Release 4) be found in 3GPP TR 21.900.  Rel-5 (Release 6)  Reason for change:  In current NBAP specification, 2 <sup>nd</sup> interleaving mode is placed in the Transpor Format Set IE. The 2 <sup>nd</sup> interleaving mode indicates if it is frame related or timeslot related. In RAN1 TS25.222 section 4.2.11, there is stated that this will applied on which the CCTrCH is mapped, so it is not associated with a transport channel, but with a CCTrCH.  So in current specification, in order to avoid confusion, it would clarify that in Timode, the 2 <sup>nd</sup> Interleaving Mode should be set for the same value within the same CCTrCH.  Summary of change:  In Section 9.2.1.59 Transport Format Set, it clarifies that in TDD mode, the 2 <sup>nd</sup> Interleaving Mode should be set for the same value within the same CCTrCH.  Impact Analysis: Impact assessment towards the previous version of the specification (same release): The impact can be considered isolated because the changes only affect 2 <sup>nd</sup> interleaving mode for TDD.  Consequences if not approved:  If this CR is not approved, 2 <sup>nd</sup> interleaving mode will be ambiguous for TDD mode.  Clauses affected:  # 9.2.1.59	Work item code: ₩	El4	
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Format Set IE. The 2 <sup>nd</sup> interleaving mode indicates if it is frame related or timeslot related. In RAN1 TS25.222 section 4.2.11, there is stated that this will applied on which the CCTrCH is mapped, so it is not associated with a transport channel, but with a CCTrCH.  So in current specification, in order to avoid confusion, it would clarify that in 1 mode, the 2 <sup>nd</sup> Interleaving Mode should be set for the same value within the same CCTrCH.  Summary of change: # In Section 9.2.1.59 Transport Format Set, it clarifies that in TDD mode, the 2 <sup>nd</sup> Interleaving Mode should be set for the same value within the same CCTrCH.  Impact Analysis: Impact assessment towards the previous version of the specification (same release): The impact can be considered isolated because the changes only affect 2 <sup>nd</sup> interleaving mode for TDD.  Consequences if # If this CR is not approved, 2 <sup>nd</sup> interleaving mode will be ambiguous for TDD mode.  Clauses affected: # 9.2.1.59  Y N	F A E C C	e <u>one</u> of the following categories:  (correction)  (corresponds to a correction in an earlier release) (addition of feature), (functional modification of feature) (editorial modification)  (addition of feature) (functional modification)  (corresponds to a correction in an earlier release) (addition of feature) (by the following releases (correction)  R96 (Release 1996) (R98 (Release 1998) (R99 (Release 1999) (Release 4) (Release 4) (Release 5)	::
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interleaving mode for TDD.  Consequences if not approved:  If this CR is not approved, 2 <sup>nd</sup> interleaving mode will be ambiguous for TDD mode.  Clauses affected:  # 9.2.1.59  Y N		Format Set IE. The 2 <sup>nd</sup> interleaving mode indicates if it is frame related or timeslot related. In RAN1 TS25.222 section 4.2.11, there is stated that this will applied on which the CCTrCH is mapped, so it is not associated with a transport channel, but with a CCTrCH.  So in current specification, in order to avoid confusion, it would clarify that in mode, the 2 <sup>nd</sup> Interleaving Mode should be set for the same value within the same CCTrCH.  In Section 9.2.1.59 Transport Format Set, it clarifies that in TDD mode, the 2 <sup>nd</sup> Interleaving Mode should be set for the same value within the same CCTrCH Impact Analysis:  Impact assessment towards the previous version of the specification (same release):	ill be port TDD
not approved: mode.  Clauses affected: # 9.2.1.59  Y N			
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affected:	X Test specifications O&M Specifications
Other comments:	#

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>Transport Block Size	C-Blocks		INTEGER (05000)	Unit: Bits
>CHOICE Mode	M			
>>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
>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	M		INTEGER (1maxRM)	
>CRC Size	M		ENUMERATED (0, 8, 12, 16, 24,)	
>CHOICE Mode	М		,	
>>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

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affected:	X Test specifications O&M Specifications
Other comments:	#

- 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 <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> 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.

# 9.2.1.59 Transport Format Set

[TDD - The Transport Format Set for each transport channel within the same CCTrCH shall have the same value for the  $2^{nd}$  Interleaving Mode IE]

IE/Group Name	Presence	Range	IE Type and Reference	Semantics Description
Dynamic Transport Format Information		1 <maxtf count&gt;</maxtf 		The first instance of the parameter corresponds to TFI zero, the second to 1 and so on.
>Number of Transport Blocks	M		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	M		ENUMERATED (10, 20, 40, 80, dynamic,,5)	Unit: ms; Value "dynamic" for TDD only; Value "5" for LCR TDD only
>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	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 <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	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		