TSG-RAN Meeting #12 *RP-010320*
Stockholm, Sweden, 12 - 15 June 2001

Title: **Agreed CRs (Rel-4) to TS 25.302**

Source: **TSG-RAN WG2**

Agenda item: **8.2.4**

Doc-1st-	Status-	Spec	CR	Rev	Phase	Subject	Cat	Version	Versio	Workitem
R2-011152	agreed	25.302	103		Rel-4	Correction to transport formats for common channels in 1.28Mcps TDD	F	4.0.0	4.1.0	LCRTDD-L23
R2-011166	agreed	25.302	106		Rel-4	Timing Advance (TADV) for 1.28Mcps TDD	F	4.0.0	4.1.0	LCRTDD-L23

3GPP TSG-RAN WG2 Meeting #21
Busan, Korea, 21-25 May 2001

Tdoc R2-011152

CR-Form-v4

CHANGE REQUEST

⌘ **25.302** **CR** **103** ⌘ ev **-** ⌘ Current version: **4.0.0** ⌘

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Proposed change affects: ⌘ (U)SIM ☐ ME/UE **X** Radio Access Network **X** Core Network ☐

Title:	⌘	Correction to transport formats for common channels in 1.28 Mcps TDD
Source:	⌘	TSG-RAN WG2
Work item code:	⌘	LCRTDD-L23
Date:	⌘	2001/5/15
Category:	⌘	**F**
Release:	⌘	REL-4

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)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one 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)

Reason for change:	⌘	Different coding options are specified for 1.28 Mcps TDD compared to 3.84 Mcps TDD and FDD. This has not been reflected. 5ms, 10ms and 20ms TTI can be applied to RACH in 1.28Mcps TDD.
Summary of change:	⌘	Coding rates relevant for 1.28 Mcps TDD are included in the description of Transport Formats It is indicated that 5ms ,10ms and 20ms TTI can be used in RACH for 1.28Mcps TDD.
Consequences if not approved:	⌘	Inconsistency with 25.222 and 25.224 in 1.28 Mcps TDD

Clauses affected:	⌘	Annex A		
Other specs affected:	⌘	☐ Other core specifications ☐ Test specifications ☐ O&M Specifications	⌘	
Other comments:	⌘			

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. 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 ftp://ftp.3gpp.org/specs/ 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.

Annex A (normative): Description of Transport Formats

The following table describes the characterisation of a Transport Format.

Table A.1: Characterisation of Transport Format

		Attribute values	BCH	PCH	FACH	RACH
Dynamic part	Transport Block Size	0 to 5 000 1 bit granularity	246	1 to 5000 1 bit granularity	0 to 5 000 1 bit granularity	0 to 5 000 1 bit granularity
	Transport Block Set Size	0 to 200 000 1 bit granularity	246	1 to 200 000 1 bit granularity	0 to 200 000 1 bit granularity	0 to 200 000 1 bit granularity
	Transmission Time Interval (option for TDD only)	10, 20 ms, 40 and 80 ms				
Semi-static part	Transmission Time Interval (FDD, option for TDD NRT bearers)	10, 20 ms, 40 and 80 ms	20 ms	10ms for FDD, 20ms for TDD	10, 20 ms, 40 and 80 ms	10 ms and 20 ms for FDD, 10 ms for 3.84Mcps TDD 5ms, 10ms and 20ms for 1.28Mcps TDD
	Type of channel coding	No Coding Turbo coding Convolutional coding	Convolutional coding	Convolutional coding	No coding Turbo coding Convolutional coding	Convolutional coding
	~~c~~Code rates	1/2, 1/3	1/2 for FDD and 3.84 Mcps TDD 1/3 for 1.28 Mcps TDD	1/2 for FDD and 3.84 Mcps TDD 1/2, 1/3 for 1.28 Mcps TDD	1/2, 1/3	1/2
	CRC size	0, 8, 12, 16, 24	16	0, 8, 12, 16, 24	0, 8, 12, 16, 24	0, 8, 12, 16, 24
	Resulting ratio after static rate matching	0,5 to 4				

		Attribute values	CPCH	DCH	DSCH	USCH
Dynamic part	Transport Block Size	0 to 5 000 1 bit granularity	0 to 5 000 1 bit granularity	0 to 5 000 1 bit granularity	0 to 5 000 1 bit granularity	0 to 5 000 1 bit granularity
	Transport Block Set Size	0 to 200 000 1 bit granularity	0 to 200 000 1 bit granularity	0 to 200 000 1 bit granularity	0 to 200 000 1 bit granularity	0 to 200 000 1 bit granularity
	Transmission Time Interval (option for TDD only)	10, 20 ms, 40 and 80 ms		10, 20 ms, 40 and 80 ms	10, 20 ms, 40 and 80 ms	10, 20 ms, 40 and 80 ms
Semi-static part	Transmission Time Interval (FDD, option for TDD NRT bearers)	10, 20 ms, 40 and 80 ms		10, 20 ms, 40 and 80 ms	10, 20 ms, 40 and 80 ms	10, 20 ms, 40 and 80 ms
	Type of channel coding	No coding Turbo coding Convolutional coding	No coding Turbo coding Convolutional coding	No coding Turbo coding Convolutional coding	No coding Turbo coding Convolutional coding	No coding Turbo coding Convolutional coding
	code rates (in case of convolutional coding)	1/2, 1/3	1/2, 1/3	1/2, 1/3	1/2, 1/3	1/2, 1/3
	CRC size	0, 8, 12, 16, 24		0, 8, 12, 16, 24	0, 8, 12, 16, 24	0, 8, 12, 16, 24
	Resulting ratio after static rate matching	0,5 to 4				

NOTE 1: The maximum size of the Transport Block has been chosen so as to avoid any need for segmentation in the physical layer into sub-blocks (segmentation should be avoided in the physical layer).

NOTE 2: Code rate is fixed to 1/3 in case of Turbo coding.

NOTE 3: All channels using the same resources as the BCH (i.e. the same timeslot and code, e.g. in a multiframe pattern) have to use different Transport Formats than the BCH to allow the identification of the BCH channel by physical layer parameters. Due to the differing parameters, decoding of other transport channels than BCH will result in an erroneous CRC.

3GPP TSG-RAN WG2 Meeting #21
Pusan, Korea, 21 - 25 May 2001

R2-011166

CR-Form-v4

CHANGE REQUEST

⌘ **25.302** **CR** **106** ⌘ ev **-** ⌘ Current version: **4.0.0** ⌘

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Proposed change affects: ⌘ (U)SIM ☐ ME/UE **X** Radio Access Network **X** Core Network ☐

Title:	⌘	Timing Advance (T_{ADV}) for 1.28 Mcps TDD
Source:	⌘	TSG-RAN WG2
Work item code:	⌘	LCRTDD-L23
Date:	⌘	11.05.2001
Category:	⌘	**F**
Release:	⌘	REL-4

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R99 (Release 1999)
REL-4 (Release 4)
REL-5 (Release 5)

Reason for change:	⌘	This measurement is defined in 25.225 and should consequently also be mentioned in this specification
Summary of change:	⌘	Short section for measurement TAdv is included
Consequences if not approved:	⌘	Inconsistency with 25.225 Backward compatibility aspects: This CR only aligns 25.225 with 25.302. No backward compatibility problems have been identified.

Clauses affected:	⌘	5.2.17 (new)
Other specs affected:	⌘	☐ Other core specifications ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	

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5.2.17 Timing Advance (T_{ADV}) for 1.28 Mcps TDD

This measure is mandatory for 1.28 Mcps TDD UE.

Measurement	Timing Advance (T_{ADV}) for 1.28 Mcps TDD
Source	L1 (UE)
Destination	RRC (RNC)
Reporting Trigger	On-demand, Event-triggered, Periodic
Description	Difference between the uplink transmission of the UE and the downlink reception.