TSGR1#10(00)0013

TSG-RAN Working Group 1 meeting #11 San Diego, USA February 29 – March 03, 2000

Agenda item:AH 4 / 8Source:NokiaTitle:CR 25.212-038rev1: Definition clarificationDocument for:Decision

In 25.212, the relation of the parameters TGL, Nfirst, Nlast describing the compressed mode transmission gap with the parameters of 25.215 is not explained. This explanation is added to the "Definitions" section.

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3GPP/SMG Meeting #11DocumentR1-00-0013San Diego, USA, Feb 29 – Mar 03 2000e.g. for 3GPP use the format TP-99xxx or for SMG, use the format P-99-xxx								
CHANGE REQUEST Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.								
		25.212	CR	038re	ev1 ^C	urrent Versi	on: <mark>3.1.0</mark>	
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Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ttp://ttp.3gpp.org/Information/CR-Form-v2.doc Proposed change affects: (U)SIM ME UTRAN / Radio X Core Network (at least one should be marked with an X) (U)SIM ME UTRAN / Radio X Core Network								
Source:	Nokia					Date:	16-Feb-2000)
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<u>Reason for</u> change:		between compre this is added.	ssed mo	ode param	eters in 2	25.212 and i	n 25.215 is not	t
Clauses affected: 3.1, 3.3								
<u>Other specs</u> affected:	Other 3G core Other GSM co specificati MS test speci BSS test speci O&M specific	ons fications cifications	-	$\begin{array}{l} \rightarrow \text{ List of } 0\\ \end{array}$	CRs: CRs: CRs:			
<u>Other</u> comments:								

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1 Scope

The present document describes the characteristics of the Layer 1 multiplexing and channel coding in the FDD mode of UTRA.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- [1] 3G TS 25.201: "Physical layer General Description"
- [2] 3G TS 25.211: "Physical channels and mapping of transport channels onto physical channels (FDD)"
- [3] 3G TS 25.213: "Spreading and modulation (FDD)"
- [4] 3G TS 25.214: "Physical layer procedures (FDD)"
- [5] 3G TS 25.215: "Measurements (FDD)"
- [6] 3G TS 25.221: "Physical channels and mapping of transport channels onto physical channels (TDD)"
- [7] 3G TS 25.222: "Multiplexing and channel coding (TDD)"
- [8] 3G TS 25.223: "Spreading and modulation (TDD)"
- [9] 3G TS 25.224: "Physical layer procedures (TDD)"
- [10] 3G TS 25.225: "Measurements (TDD)"
- [11] 3G TS 25.302: "Services Provided by the Physical Layer"
- [12] 3G TS 25.402: "Synchronisation in UTRAN, Stage 2"

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the [following] terms and definitions [given in ... and the following] apply.

TG: Transmission Gap is consecutive empty slots that have been obtained with a transmission time reduction method. The transmission gap can be contained in one or two consecutive radio frames.

TGL: Transmission Gap Length is the number of consecutive empty slots that have been obtained with a transmission time reduction method. $0 \le TGL \le 14$. The CFN of the frames containing transmission gaps as well as the lengths and positions of the transmission gaps within their frames can be calculated with the compressed mode parameters described in [5].

TrCH number: Transport channel number represents a TrCH ID assigned to L1 by L2. Transport channels are multiplexed to the CCTrCH in the ascending order of these IDs.

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Symbols 3.2

For the purposes of the present document, the following symbols apply:

éxù	round towards \mathbf{Y} , i.e. integer such that $x \mathbf{f} \mathbf{e} x \mathbf{\hat{u}} < x+1$
ëxû	round towards $-\mathbf{Y}$, i.e. integer such that $x-1 < \mathbf{\ddot{e}} x \mathbf{\hat{u}} \mathbf{f} x$
ÇxÇ	absolute value of x
N _{first}	The first slot in the <i>TG</i> .
N _{last}	The last slot in the <i>TG</i> . N_{last} is either a slot in the same radio frame as N_{first} or a slot in the radio frame immediately following the slot that contains N_{first} .

Unless otherwise is explicitly stated when the symbol is used, the meaning of the following symbols is:

i	TrCH number	
j	TFC number	
k	Bit number	
l	TF number	
т	Transport block number	
n_i	Radio frame number of TrCH <i>i</i> .	
р	PhCH number	
r	Code block number	
Ι	Number of TrCHs in a CCTrCH.	
C_i	Number of code blocks in one TTI of TrCH <i>i</i> .	
F_i	Number of radio frames in one TTI of TrCH <i>i</i> .	
M_i	Number of transport blocks in one TTI of TrCH <i>i</i> .	
Р	Number of PhCHs used for one CCTrCH.	
PL	Puncturing Limit for the uplink. Signalled from higher layers	
RM_i	Rate Matching attribute for TrCH <i>i</i> . Signalled from higher layers.	

Temporary variables, i.e. variables used in several (sub)sections with different meaning.

x, X

y, Y z, Z

Abbreviations 3.3

For the purposes of the present document, the following abbreviations apply:

100	
ARQ	Automatic Repeat Request
BCH	Broadcast Channel
BER	Bit Error Rate
BLER	Block Error Rate
BS	Base Station
CCPCH	Common Control Physical Channel
CCTrCH	Coded Composite Transport Channel
CFN	Connection Frame Number
CRC	Cyclic Redundancy Code
DCH	Dedicated Channel
DL	Downlink (Forward link)
DPCH	Dedicated Physical Channel
DPCCH	Dedicated Physical Control Channel
DPDCH	Dedicated Physical Data Channel
DS-CDMA	Direct-Sequence Code Division Multiple Access
DSCH	Downlink Shared Channel
DTX	Discontinuous Transmission
FACH	Forward Access Channel
FDD	Frequency Division Duplex