TSG-RAN Working Group 1 meeting #9 Dresden, Germany November 30 – December 3, 1999

TSGR1#9(99)i47

Agenda item:

Source:	Ericsson
Title:	CR 25.211-006: Change to the description of TSTD for SCH
Document for:	Decision

TSTD can be applied to the SCH. How this is done is specified in section 5.3.3.4.1 in TS 25.211. However, TSTD is also described, in a very non-specification like manner in the figure in section 5.3.1.1.2. Further, the figure is not very clear and can be misleading.

This CR removes the unnessecary figure and makes editorial updates to the text in TS 25.211.

help.doc

Document ???99???

e.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.								
	25.211	CR	006	Current Versio	on: <u>3.0.0</u>			
GSM (AA.BB) or 3G (AA.BBB) specification number ↑								
For submission to: TSG-RA list expected approval meeting # here ↑	N #6 for ap	pproval rmation	X	strate non-strate	gic (for SM) gic use only	IG ly)		
Proposed change affects: (U)SIM ME X UTRAN / Radio X Core Network (at least one should be marked with an X)								
Source: Ericsson				Date:	1999-11-18			
Subject: Change to t	the description of	TSTD for	SCH					
Work item:								
Category:FCorrectionACorrespond(only one categoryBAddition ofshall be markedCFunctionalwith an X)DEditorial m	ds to a correction feature modification of fe odification	in an earl eature	lier release	Release:	Phase 2 Release 96 Release 97 Release 98 Release 99 Release 00	X		
Reason for change:The TSTD is this ambiguing	function for SCH i ity, one figure is c	is describ deleted ar	ed in multip nd some edi	le places in TS 25. torial changes are	211. To remove made.	e		
Clauses affected: 5.3.1.1	.2							
Other specs affected:Other 3G cor Other GSM do specificat MS test speci BSS test specificat O&M specificat	e specifications core ions ifications cifications cations	$ \begin{array}{c} \rightarrow \\ \rightarrow \\ \rightarrow \\ \end{array} $	 List of CRs 	5: 5: 5: 5: 5:				
Other comments:								

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Figure 1: Block diagram of STTD encoder. The symbols S₁, S₂ are QPSK or discontinuous transmission (DTX) symbols and T denotes the symbol time.

5.3.1.1.2 Time Switched Transmit Diversity for SCH (TSTD)

<u>Transmit diversity, in the form of Time Switched Transmit Diversity (TSTD), can be applied to the SCH.</u> TSTD for the SCH is optional in UTRAN, while .- TSTD support is mandatory inat the UE. A block diagram of the transmitter using TSTD for SCH and STTD for P-CCPCH is shown in Figure 9. TSTD for the SCH is described in sub-clause 5.3.3.4.1.



5.3.2 Dedicated downlink physical channels

There is only one type of downlink dedicated physical channel, the Downlink Dedicated Physical Channel (downlink DPCH).

Within one downlink DPCH, dedicated data generated at Layer 2 and above, i.e. the dedicated transport channel (DCH), is transmitted in time-multiplex with control information generated at Layer 1 (known pilot bits, TPC commands, and an optional TFCI). The downlink DPCH can thus be seen as a time multiplex of a downlink DPDCH and a downlink DPCCH, compare Section 5.2.1. It is the UTRAN that determines if a TFCI should be transmitted, hence making it is mandatory for all UEs to support the use of TFCI in the downlink.

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