

TSG-RAN Working Group 1 meeting #8
New York, USA
October 12 – 15, 1999

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Agenda Item:

Source: Fujitsu, Hitachi, Japan Telecom, Mitsubishi Electric, NEC,
NTT DoCoMo, Panasonic, Sharp, Texas Instruments, Toshiba

Title: Additional open issues to be discussed in R1
(Revision of Tdoc R1-99c03)

Document for: Information

1. Introduction

This document is a revision of Tdoc R1-99c03, and shows a list of open issues with their current statuses after the WG1 7bis meeting. We hope each Ad Hoc checks the list.

2. List of additional open issues

Items to be clarified from tacit consent level to specific description level

#	Open issues	Ad Hoc(s)	Current status
1	CPICH exists for all carriers	15	CPICH, SCH, and P-CCPCH are agreed to be present. Other channels are under discussion.
2	CPICH exists for primary scrambling code but doesn't exist for secondary scrambling code.	15	Solved -- The text was revised.

Issues with high priority

#	Open issues	Ad Hoc(s)	Current status
4	RACH: The details of preamble spreading are not clear.	3	Solved – The structure agreed in WG1#6 was unchanged and fixed.
5	RACH: How is the scramble code phase of a message part defined, based on the frame boundary or the head of the access slot?	3	Solved – The text was revised.
7	Whether UE needs to receive AICH and FACH from plural Node Bs simultaneously or not, in order to decide the best UL BTS at the initial transmission of RACH and CPCH.	3 (11), WG2	Solved – The multiple-AICH reception was withdrawn.
3	The number of PL symbols for DPCH, especially whether zero symbols are allowed or not.	4 (15, 7)	Solved – no non-pilot format. Reduced pilot formats have been introduced in SF 256 and 128.
8	Channel multiplexing and coding scheme for AMR Voice service.	4 (5)	Solved – UEP with flexible position was agreed. LS (R1-99E31,E32) was sent to other WGs. Coding scheme examples will be inserted on TR1.04.
9	Channel multiplexing and coding scheme for UDI service.	4 (5)	Coding scheme examples will be inserted in TR1.04.
10	Channel multiplexing and coding scheme for Packet service.	4 (5, 14)	
11	Channel multiplexing and coding scheme for DCCH.	4 (5)	
12	BCH - PCCPCH mapping: The mapping details such as number of bits for transport channels, number of CRC bits, and necessity of Rate matching are unclear. Is the 1 st interleaving necessary if two frames are paired to apply STTD encoding?	4, WG2	Await WG2 conclusion (R1-99f73).
13	(PCH, FACH) – SCCPCH mapping Is the mapping the same as that of DCH mapping? Is Rate matching needed? Are FACH and PCH multiplexed within a frame, and signaled by TFCI? Or are they not multiplexed within a frame? Is the PCH a fixed rate and a fixed	4, WG2	The coding scheme was described. It was not solved that PCH and FACH for call set are rate fixed or not. (These are WG2 issues?)

	format? Is the FACH a fixed rate and a fixed format when indicating L23 ACK/NACK signal for a RACH message?		
14	Multiplexing scheme for different size of FACH Transport blocks	4 (WG2, WG3)	Solved – The text was revised.
15	Multiplexing scheme for different size of RACH Transport blocks (Multiplexing scheme should not be needed?)	4 (WG2, WG3)	Solved – The text was revised.
16	Transport block size of each transport channel	4 (WG2, WG3)	WG2 issue.
17	The maximum number of transport block and transport block set size	4	WG2 issue.
18	How can we know whether “Fixed position” or “Flexible position” in DL?	4	Signaled when set up.
19	TFCI composition rule for transmitter side.	4	Solved – The text was revised. LS was sent to WG2.
22	SFN transmission scheme	7 (4)	Solved – SFN was agreed to be a L1 parameter.
2	CPICH: Transmission method from each antenna in TX Diversity	6 (15)	Solved partly – The modulation patterns were agreed. In the 7bis meeting, a question was raised in which situation different patterns are needed.
20	How to use the 2 bits FBI fields.	6	Solved – Tx diversity uses 1 bit and SSdT uses the other bit. SSdT uses 2 bits when no Tx diversity (?)
21	Requirement of TX diversity control procedure in case of HO initiation and termination	6 (7, WG2)	WG2 issue. LS was sent to WG2.
	Tx diversity operation in compressed mode	6 (8)	Will be discussed in the WG1#8 meeting.
23 a	Compressed Mode: length of idle period, frame structure for UL compressed mode, puncturing method for interleaving sizes larger than 10ms	8	Solved partly – Method A2 is not in R99. The slot formats for UL compressed mode were agreed in 7bis as working assumption.
	It should be confirmed that SF should not be mixed within one frame in Method B.	8	
23 b	Compressed mode: Power control method, outer loop power control in compressed mode	9 (8)	Will be discussed in the WG1#8 meeting.
25	The value of “ δ ” for DL multi-code transmission. Is the definition of “ δ ” clear?	9	Solved – It does not need to be specified.
	How to calculate UL DPCCH / DPDCH power ratios, i.e. β values.	9	Solved – The text was agreed in 7bis as working assumption.
	Power control timing of PDSCH: How is PDSCH power controlled? How is it related to the associated DPCH?	9, 14	
26	Whether scrambling code is common to all codes in DL multicode transmission for one user or not.	10	It was confirmed that not all codes are common for one CCTrCH. The WG2/3 assumption

			should be checked.
27	The maximum number of physical channels for DL multicode transmission related with SF.	10	Solved -- L1 does not limit it, because it is confirmed by negotiation.
29	Secondary SCH: code grouping 32 or 256?	12	Solved – 64
30	Cell search in case of compressed mode for IFHO	12, 8	Solved?
24	Whether SIR measurement method is specified or not. Is the definition of “S” clear?	16	Solved? – RSCP in TS 25.215.

Issues with low priority

#	Open issues	Ad Hoc	Current status
(6)	RACH: What’s the relation of the TX powers between the preamble and the message parts?	3 (9)	Solved – parameter from higher layer.
	RACH: What’s the range and step of P ₀ and P ₁ for preamble power ramping?	3	Solved – parameters from higher layer.
1	The maximum number of coding chains multiplexed, in both DL and UL.	411	WG1 issue?
	What is the maximum number of different transport formats when blind transport format combination detection is used? (for both fixed and flexible positions)	4, 11	
2	Correspondence between UE physical layer capability and maximal symbol rate of SCCPCH to be implemented.	11	WG1 issue?
3	Correspondence between UE physical layer capability and maximal symbol rate of PRACH to be implemented.	11	WG1 issue?
9	Whether it is possible for MS to handle both common channel (RACH/FACH) and dedicated channel simultaneously. This function will be needed in multicast situation.	211	CCTrCH combination for one UE is FFS (Section 4.2.14.1.2, TS 25.212). If SMS service is necessary during call, the simultaneous reception will be needed.
4	CPCH: How is the transmission timing relation between the preamble and the message parts?	14	The text was revised.
	The length of CPCH power control preamble: 0 or 10ms?	14	Will be discussed in the WG1#8 meeting.
6	Positioning: When will the L1-related positioning method proposed by Ericsson be decided to adopt or not? We need information for the parameters and the detail description of how to measure the timing difference between BTSs.	17	Discussions are continued in Ad Hoc #17.
8	NACK for RACH Message: Who decides NACK, and how?	WG2	Await the LS back from WG2.

Issues to be confirmed

[All issues were solved.](#)