

TSG RAN WG 1#9
Dresden, Germany
November 30-December 3, 1999

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Agenda item: AH14
Source: Golden Bridge Technology
Title: CPCH Status in RAN1, RAN2 and RAN3 Working Groups

Document for: Information

INTRODUCTION

It was pointed out at the last RAN meeting that continued coordination between working groups will be needed to produce a coherent set of specifications for Release 99. RAN1, RAN2 and RAN3 each have specifications which have been modified to add CPCH for Release 99. This contribution provides visibility of CPCH status between working groups.

DISCUSSION

The basic CPCH scheme with the added UE monitoring of CPCH status broadcast capability provides an extremely efficient method for CPCH access. The major enhancement of "Status Broadcast" which enables non-real time channel monitoring has been approved by WG1. This enhancement will yield high CPCH throughput delay performance. There are also ongoing WG1 discussions to add Channel Assignment to the CPCH scheme with monitoring. It is unclear whether the Channel Assignment discussions will lead to specification changes for Release 99 or Release 00.

The following Tables represents the progress in CPCH specifications in WG1 and WG2. The CPCH work in WG3 has begun and is due to be completed by RAN#7.

WG1 Status:

Item	Proponents	Status
Basic CPCH scheme	GBT Proposed in WG1#1, Japan Discussed in WG1#1, WG1#2, Sweden, WG1#3, Sweden, WG1#4, Japan, WG1#5: Korea	The basic scheme was approved in Korea as a working assumption And AH14 recommended drafting of some text. Closed
Basic CPCH text for 25.211	GBT Proposed in WG1#5, Korea Discussed in WG1#5,#6 in Espoo Approved in WG1#7 in Hanover	Approved Closed Subsequent discussions might have impact on text.
Use of TFCI for CPCH	GBT	Closed out in WG1#7 in Hanover Agreement to include TFCI for CPCH. Also agreed not to have a fixed packet length. Closed
Basic text for 25.214: Physical layer procedure	GBT	Approved conditionally in Hanover, WG1#7 and approved in AG1#7bis [with inclusion of sub-channel scheme]. Closed But subsequent discussions might have impact on text
Use of higher SF such as 256, 128 for CPCH	Philips	Closed in WG1#7bis Agreement to include it. Closed
Use of Sub-channel scheme identical to RACH for CPCH	Nortel	Approved in WG1#7bis Closed
Length of the Power Control Preamble	Nokia, Philips to have 0,8 slots	Agreed on such inclusion in WG1#8 in New York Closed
Access Preamble, CD preamble spreading code [25.213]	GBT	The text was approved in WG1#7, improved in WG1#8, New York Closed
Use of coding similar to DCH for CPCH [25.212]	GBT	Agreed to in WG1#8 in New York Closed

Channel Monitoring methods (Real-time versus non-real-time monitoring method)	LGIC, GBT, Philips, Samsung Non-real-time status monitoring And periodic broadcast has been proposed by Philips and Samsung And agreed to.	WG1#7bis, WG1#8, New York There is an agreement on the general scheme. No agreement on which scheme. No text yet. Text to be generated by the next WG1#9, Dresden meeting. Method selection [Closed] Details of Scheme [Open]
Channel Assignment Method	Philips, Samsung Discussions in WG1#7bis, WG1#8 No agreement reached on benefits	Discussions to be continued. If there is agreement in WG1#9, then it will be included in Release 99. Open issue

WG2 Status:

Meetings:

- WG2#4: Berlin, 5/99
- WG2#5: Sophia_Antipolis, 7/99
- WG2#6: Sophia Antipolis, 8/99
- WG2#7: Malmo, 9/99

Item	Proponents	Status
Introduce baseline CPCH into specs [25.301, 25.302, 25.303, 25.321]	GBT with multiple contrib at WG2#4	Most changes approved, specification text minimized. Approved
CPCH parameters inserted into RRC messages [25.331]	GBT at WG2#5, DoCoMo email Comments 8/99, discussions at WG2#6, deferred discussion at WG2#7.	80% of parameters incorporated, additional parameters for WG2#8, subject to changes from WG1. Open issue
MAC control of CPCH retransmission and Backoff [25.321]	GBT contrib at WG2#6, Samsung/Ericsson email comments 9/99, Ericsson, Philips, Sony, Motorola, IDC, Siemens drafting group at WG2#7	Specification text approved
Modify interlayer primitives for CPCH [25.302: MAC/PHY, 25.321: RRC/MAC]	GBT contrib at WG2#6	2 CRs approved at WG2#6, RAN postponed approval at RAN#5, MAC/PHY primitive subject to changes from WG1 concerning UE monitoring of CPCH status broadcasts. Open Issue.