TSG-RAN Working Group 1 meeting #10 ***TSGR1#10(00)0154***
Beijing, China
January 18th – 21st, 2000

Agenda item: AH 14
Source: AH 14 Chair
Title: AH 14 Report
Document for: Approval

Two sessions of Adhoc#14 were held, one in the afternoon of 19th January and the other on the morning of 20th January. The main discussions were focussed on issues related to CPCH. This report summarizes the outcome of the discussions in Adhoc#14.

List of Documents presented to the Adhoc:

Samsung Contributions:
Versatile Channel Assignment Method – Tdoc #106 and 107
Some Clarifications on CPCH Channel Assignment -Tdoc#141

GBT Contributions:
TSGR1 (00)0028 WG2: Hybrid Fixed Rate CPCH and Multi-Rate CPCH
TSGR1 (00)0025 UE and Base Node Functional and hardware
TSGR1 (00)0026 Comparison of Channel Selection, Fixed Channel Assignment and Flexible Channel Assignment schemes
TSGR1 (00)0027 Review of Samsung's simulation papers
TSGR1 (00)0030 CPCH- A Hybrid Channel Selection and Channel Assignment Method
CRs:
TSGR1(00)0031 CR 045 CPCH-related changes to 25.214
TSGR1(00)0032 CR 046 for TS25.214 " Editorial Change"
TSGR1(00)0033 CR023

Philips Contributions:
R1-00-0052 "Draft Text Proposals for CPCH status broadcast" Contains updated versions of CR's previously in document (99)j18
R1-00-0056 "A new CPCH proposal" is a contribution to the discussion on CPCH.
R1-00-0054, 55, 61 – Contributions related to Fast Initialization and Synchronization issues

LGIC Contributions
R1-00-125 – CPCH controlling method for abnormal situation handling

Liasion Statement
R1-00-131 – Liasion statement from WG#1 to WG#2 regarding CPCH.

Samsung presented their Versatile Channel Assignment Method (Tdoc #106) in the first session. Two major concerns were raised regarding the CA scheme by Nokia , 1) False alarm rate of the CA Channel message and 2) UE Complexity issue. Samsung addressed the above issues in the next session in Tdoc#141. It was agreed that although the complexity of VCAM is equivalent to UE Selection method, the receiver implementation might need to be changed due to new requirements. The simulation results presented by Samsung showed a requirement of 15 dB Eb/No for a 1% False Alarm Rate at slow speed and flat fading conditions. It was pointed out that the Eb/No requirement is too high. Samsung pointed out that with TX Diversity the Eb/No requirement will be reduced. Going forward, it was agreed that the simulation assumption need to investigated before VCAM can be accepted.
It was further agreed that two CR's should be written one with UE Channel Selection and the other with both UCS and VCAM. In the meantime Samsung should address the concerns raised in WG#1 with regard to simulation assumptions and power requirement under abnormal conditions.

Next, Philips presented Tdoc#52 titled "Draft Text Proposals for CPCH status broadcast". The text proposal contained updated versions of CR's previously in document (99)j18. Lot of discussion took place on the first CR 25.211-013r1. It was agreed that to change "Unused Part" in Figure 23 to "Tx Off" and do the same thing for AICH.

Also, mapping of bits to CPCH channel needs to be clarified. An updated version, CR 25.211-013r2 was also presented and the meeting agreed that a further revised version should be presented in the plenary, taking into account comments on the relationship between the CSICH and AP-AICH. With respect to the second CR 25.214-022r1, AH-14 recommends that the CR is acceptable, but in view of current unresolved issues concerning VCAM, it should be taken up in the next meeting. It was also agreed to combine this CR with GBT's CR's (Tdoc#31 and 32 discussed below)

Next, GBT presented several CRs related to CPCH. Tdoc#31 deals with CPCH-related changes to 25.214. It was agreed to remove addition to item 7, 13 and 17 in Section 6.2 because they are related to higher layer. It was also agreed to combine this CR with CR25.214-022r1 in Tdoc#52. Tdoc#32 deals with editorial changes to TS25.214. This CR was approved and will be combined with the CR25.214-022r1 in Tdoc#52.

Tdoc#33 which includes CPCH-related editorial and technical changes to 25.211 was then presented by GBT. It was concluded that Section 5.3.3.7 in the latest version of the CR should be revised to include the provision of sharing the channelization code between RACH and CPCH. Also this section should be co-ordinated with other CR (Tdoc#13).
Finally, LGIC presented Tdoc#125 titled "CPCH controlling method for abnormal situation handling". However, it was pointed that this is coming up too late in the discussion and it involves procedural change. It was recommended that, at least for the moment, any signaling of this kind should be done using FACH. It was the consensus of the group that the concept should be reintroduced at a later point of time.

The following documents with respect to CPCH was for information purpose only and not presented in the meeting:
Tdoc#25, 26, 27, 28, 30 and 56.

The following documents were not discussed due to lack of time:
Tdoc# 54, 55, 61 and 126.