

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 morning of 1st March and the other on the morning of 2nd March. 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 and summary:

Nokia/GBT/Samsung/LGIC – Tdoc#351 and Nokia Tdoc#301

These documents propose two methods to mitigate the problem of false mobile, which arises from errors on the CA message which leads to UEs capturing an occupied PCPCH or an unoccupied PCPCH channel. In both cases, the results could cause undesirable uplink interference if the base node does not recognize the presence of the UE. To resolve the issue of UE capturing an occupied channel, transmission of availability of each PCPCH through CSICH is proposed. Also, to resolve the issue of UE capturing an idle channel erroneously without Base Node's knowledge, the Start of Message Indicator transmitted on the downlink DPDCH is proposed.

It was concluded that the mechanism to support Start of Message indicator should be combined with that for the Emergency Shut down procedure. It was also agreed that the above two methods will mitigate the problem of false mobile and thus a liaison should be generated to WG#2 explaining the said methods.

LGIC: Emergency Stop CRs – Tdoc# 279, 334

A lengthy discussion took place on this topic. LGIC presented the slides and CR on Emergency stop for CPCH. The following questions were raised:

1. What was the False Alarm Probability in the simulations.
2. If power control is not enabled what kind of performance one gets at slow speed.
3. What is the time between reception and interruption of transmission. This should be tied to UE capability.
4. In case of different power levels between DPDCH and DPCCH how do one set the threshold for detection.
5. Which field this needs to be transmitted DPDCH or DPCCH.

However, it was concluded that Emergency stop is an essential requirement for CPCH since this being a physical layer procedure but is initiated by higher layer and it is faster than the FACH based approach.

It was agreed that Start of Message Indicator and Emergency Stop should be combined in a single CR and a liaison to RAN2.

Samsung - New CSICH mapping rule – Tdoc#360

There were two proposals one by Samsung and one by Philips on CSICH mapping rule. The following concerns on the Samsung proposal was raised by Nokia/GBT/Ericsson

1. UE power consumption is higher since UE needs to be on for 20 msec
2. There is no interleaving gain at slow speed
3. No update of status indicator during the interleaving period
4. Benefit is small compared to the above disadvantages

However, after a lot of discussion it was jointly agreed to adopt Philips method for CSICH.

CR's related to DSCH

Three CR's were presented on this topic. The CR's were jointly authored by Motorola and Nokia. The CR on "Clarification to 25.211 regarding usage of DSCH" was approved by the Adhoc-14. Tdoc#271 on "Corrections to 25.212 regarding the usage of DSCH" was approved subject to minor revisions. It was also decided to combine the CR on "Usage of DSCH and the allowed combinations of CCTrCHs" (Tdoc#359) with Tdoc#271 in a single CR.

List of CRs which were superseded by a different CR or withdrawn

GBT:

R1-0200 CR23r2.0 for agenda item 5-6 replaced by 336

R1-0204 CR25: Number of uplink scrambling codes per cell (25.213) replaced by 337

R1-205 CR32 clarifications to 7.4 (25.211) replaced by 330
R1 206 CR059 CD sub-slot related additions (25.214) replaced by 339
R10207 CR60 Random Functions (25.214) Revised number#340
R1-0205: CR58: CSICH Status Broadcast (25.214) – Withdrawn combined with 369

LGIC:

Common Channelization – Tdoc#280 replaced by 393
Start of Message Indicator – Tdoc#335 replaced by Tdoc#392

Samsung:

Outer Loop Power Control CR – Withdrawn
ASC concept in CPCH – Tdoc#311 - Withdrawn
False Mobile Issue: Start of message indicator – Tdoc#351 – Withdrawn and included in joint CR
UCSM or VCAM CRs – Tdoc#361 revised to 368, 362 revised to 369

CRs related to CPCH

Philips:

CR on CSICH and 25.211 Tdoc#265

There were some minor comments for e.g. CSICH does not fulfill the definition of physical channel. However, the CR was approved by the adhoc.

GBT:

CR Random functions Tdoc#340

This CR was agreed on principle but should be combined with other CR's on this topic

Tdoc#208

This CR was of editorial. The CR was approved subject to editorial changes and should be submitted to the plenary with the revisions.

CR on CD-subslot Toc#339

This CR was approved by the Adhoc.

Tdoc#336

Approved subject to the following revisions: changes to Figures and Tables, “well defined time instance” should be changed to “well defined time intervals” etc.

Tdoc#399

This CR is related to 25.213. The range of n needs to be modified. This was approved subject to the above comment.

LGIC:

Pilot Pattern CR – Tdoc#275

This CR was approved by Adhoc#14.

Common Channelization Code Allocation Method – Tdoc#393

This CR was approved subject to the following comment : “Change to frame by frame basis”

Joint CR's

Tdoc#369:

This is a joint CR by Samsung, GBT, Nokia, LGIC, Lucent and Philips and is related to 25.214. The document should be revised based on the suggested changes in the Adhoc and resubmitted to the plenary.

Tdoc#368:

This is a joint CR by Samsung, GBT, Nokia, LGIC and Lucent and is related to 25.211. This CR was also approved subject to following revisions:

Equations should be modified, Figures should be revised etc.

Tdoc#337:

This is a joint CR by GBT, Samsung and LGIC and is related to 25.213. This CR was approved subject to minor revisions (e.g. removal of comma from 32,768), Section 4.3.2.6 - Duplication of sentence, 4.3.2.6 – I between brackets etc.)

Tdoc#392:

This is a joint CR by LGIC, GBT, Samsung and Lucent and is related to 25.211 and 25.214. The CR should be revised based on the following comments and resubmitted to the plenary:

Emergency Stop and Start Up Message Indicator – Item 16 in 25.214 Sec6.2 should be revised to reflect loss of sync, Clarify that the UTRAN cannot send the Emergency Stop Command during the Nstart message frames after the power control preamble, Step 14: should be revised.

Finally, GBT presented the UE Capability Tdoc#338 for information purpose only and to start up a discussion on UE capability. Simultaneous reception of SCCPCH and DPCH with SF=512, Reception of SCCPCH while the UE is in

Access Procedure should be in UE capability. GB 1 to prepare a liaison statement for KAN-2 explaining the above UE capability.