

Outcome of TSG GERAN WG1 # 34
meeting
14-18 May 2007, Shenzhen, China



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Miscellaneous (1/2)

Packet radio ((E)GPRS):

CR 44.060 Rel-7 clarifying values of power control parameters to be applied at timeslot (re-)assignment was endorsed. No need for a CR to 45.008.

PS HO:

Editorial CRs 43.129 Rel-6 and Rel-7 agreed.

CR to 43.129 Introduction of Direct Tunnel functionality: conditionally agreed (pending WG2 endorsement).

LCS:

CR 43.059 Rel-7 Addition of Positioning Capability Transfer using RRLP: agreed.

DARP Phase II:

CRs 45.015 on release independent support discussed but sent to Plenary due to the need to agree on the Releases.

GAN:

CR 43.318 GERAN/UTRAN cells scan for rove-out in GAN mode: agreed.

Miscellaneous (2/2)

TEI and others:

CR 45.005-0154 Correction to extreme condition voltages for Lithium batteries (Rel-7): agreed. Corresponding changes have to be made for UTRAN terminals, WG3 will send an LS to RAN5.

CR 44.006-0019 Repeated SACCH candidate clarification (Rel-6): endorsed.

CR 44.006 Clarification of Repeated ACCH Capability (Rel-6): endorsed.

CR 44.006 Enhanced Layer 2 Two-block Handover/Assignment Command Signaling (Rel-7): postponed.

CR 43.022-0024 Enhanced Cell Reselection for VGCS (Rel-7): conditionally agreed pending decisions in WG2, final decision in Plenary (GP-071062).

Interpretation of the wording "ready to transmit" clarified and captured in WG1 meeting minutes.

Antenna test methods:

MS TRP and TRS for TS25.144: status report: sent directly to Plenary due to lack of time.

GSM - 3G and 3G LTE interoperability and multimode operation

Discussion papers (GERAN-LTE):

GERAN-LTE interworking on inter-RAT cell reselection:

- reuse same principles as for GERAN-UTRAN cell reselection;
- possibility to prioritize one RAT over the other should be considered;
- cell redirection mechanism upon call termination to be extended to GERAN-LTE.

Fast Search for LTE Cells in GERAN:

- inclusion of LTE specific timing information on SI messages;
- will allow MS in PTM on a high number of timeslots to continue monitoring LTE cells.

Measurement of E-UTRAN cells from GSM:

- confirmation that monitoring of E-UTRAN cells is possible for a single radio MS involved in a CS call (will allow voice handover from GSM to E-UTRAN).

Matters common to HUGE and RED HOT

Training sequences:

- proposals from 3 companies;
- very similar performances;
- selection now has to be made; discussions between the 3 companies encouraged.

Stealing flags:

- close to agreement on number of encoded bits for the stealing flags.

Channel interleaver:

- not decided yet, one generic solution proposed with optimization still to be performed.

Rate matching:

- new proposal to use circular buffer rate matching as an alternative to specific puncturing schemes.

Pulse shaping for HSR:

- one contribution presented, work only started.

Proposed way forward for HUGE and RED HOT:

- proposal to merge HUGE B and C not agreed;
- new proposal was very briefly presented due to lack of time and will be re-discussed in the Plenary

HUGE

MCS design:

- One proposal for HUGE A
- One proposal for HUGE B and C, assuming merge of HUGE B and C and no turbo codes.

Link level performance revisited:

- gains brought by turbo codes investigated in one contribution.

Specification impact of HUGE:

- impacts to 45.005 have been presented and discussed;
- a CR to 45.004 introducing HUGE has been presented for information.

RED HOT

USF:

- new proposal for a mixed modulation burst trying to allow multiplexing of legacy EGPRS and RED HOT A MSs on the same timeslots;
- concerns that this would not be compatible with all legacy mobile implementations;
- agreement to try and achieve multiplexing of RED HOT A and RED HOT B MSs on the same timeslots;
- one proposal for the USF encoding for LSR and HSR, based on antipodal signalling, was presented.

MCS design:

- RED HOT A: two proposals;
- RED HOT B: two proposals.

Dual carrier in Downlink

CRs:

CR 43.064 Derivation of Channel Quality Report in a Dual carrier Configuration (Rel-7): agreed.

CR 45.005 MSRD (DARP Phase II) requirements in Downlink Dual Carrier Configurations (Rel-7): agreed.

CR 45.002-0119 Simplification of Multislot classes for Downlink Dual Carrier Configurations (Rel-7): postponed.

Latency reductions

Discussion papers:

Set of working assumptions for FANR and RTTI reviewed: all endorsed except WA 8 for FANR: TFI not necessarily included in the PAN because implicit signalling of the TFI could be possible via TFI-dependent CRC masking or scrambling code. To be further discussed.

Proposal on how to map the USF bits on each timeslot in RTTI configuration was discussed and found interesting.

Proposal to perform DL control signalling using MCS-1 instead of CS-1 in RTTI mode: not yet agreed.

Main CRs:

Two stage 2 CRs agreed:

- CR 43.064 Correction to the RTTI description (Rel-7).
- CR 43.064 Introduction of Fast Ack/Nack Reporting (Rel-7).

Several stage 3 CRs reviewed, one agreed:

- CR 45.010-0036 PAN Reaction Times (Rel-7).

Relaxation of BTS specifications for GSM multicarrier

Field problem reported due to interference of E-GSM on R-GSM:

- analysis during the meeting showed that the problem was probably due to intermodulation in the R-GSM terminal rather than intermodulation in the E-GSM BTSs.

Arguments provided for and against the relaxations.

New simulation results provided to support the relaxations.

Proposals made for new simulation assumptions.

Interested companies invited to discuss offline so that a conclusion can be reached at TSG GERAN # 35.

Outgoing LSs

GP-071070: To RAN2 on GERAN-LTE cell reselection: to Plenary.

GP-071064: Draft LS to GERAN regarding radio aspects of GSM Direct Mode Operation (To: SA1, ETSI TC RT DMO, Cc: TSG SA, TSG RAN): endorsed.

GP-071065: LS on GSMOBA (To: Joint ERM-MSG GSMOBA, Cc: ETSI TC MSG): endorsed.

GP-071009: LS to SA WG4 regarding Speech_Lost frames: endorsed.

GP-071066: LS to CT1 on single slot DTM: to Plenary.

Work plan and future meetings

List of WG1 specifications to be updated to Rel-7 agreed (GP-071071).

Adhoc WG1 meeting on RED HOT and HUGE agreed:

- 19-21 June 2007, Sophia Antipolis.

Due to heavy foreseen workload, rules for late contributions likely to apply at TSG GERAN WG1 # 35 in August 2007.