3GPP TSG GERAN2#50

Chairman's Summary

Chairman: Guillaume Sébire
Secretary: Gert Thomasen (MCC Report: GP-110974)

Renesas Mobile Corporation
Renesas Mobile Europe

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Incoming Contributions

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GERAN2 Elections

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GERAN2 Elections

- Only one candidate
- Results
  - Chairman
    - Guillaume SEBIRE (Renesas Mobile Europe Ltd, ETSI)
  - Vice-Chairman
    - None

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Schedule

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Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
8am		LSs	elur-g, LCLS	Revisions	
9am		Pre-Rel-10	FULL MOCN		
10am		Coffee	Coffee	Coffee	
11am		H(e)NB	Other Rel-10 Other Rel-11, AOB	Revisions	
12pm		Lunch	Lunch	Lunch	
1pm		TEI-10 / Other Rel-10	TIGHTER SIMTC / NIMTC	Revisions	
2pm		Coffee	Coffee	Coffee	
3pm		SIMTC (Rel-11) / NIMTC (Rel-10)	SIMTC (Rel-11) / NIMTC (Rel-10)	Revisions	
4pm				Social Event	
5pm					
6pm					
7pm					
8pm					

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Pre Rel-10

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Misc. Pre-Rel-10 (1/2)

- Misc.
  - **GP-110729, GP-110730** CR 44.060 postponed (Rel-9+): GERAN2 requires conclusion in GERAN1 as to the impact of preventing the inclusion of NC_Frequency_List in PMO/PCCO
    - GERAN1 need more time to investigate this
    - Decision at GERAN#51
  - **GP-110764** proposes either potential changes to EGPRS PDAN TYPE2 message by omitting the ack/nack IE; or a new message in order to allow, in case of DLDC, the inclusion of a larger number of per slot measurements to tackle current limitations
    - If anything need to be done it should be under full control of the network
    - Some concerns raised on the proposal
    - Other alternatives could be considered (e.g. cycling through reported timeslots, alternating between reported carriers)
    - Whether changes are required in Rel-7 to be carefully considered

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Misc. Pre-Rel-10 (2/2)

- Misc. (cont'd)
  - RTTI Coding issues
    - GERAN#49: GP-110301 RTTI Coding Issues (Rel-7+): textual definition of struct repetitions and order of dependent IEs/fields preventing message decoding
    - GERAN#50:
      - **GP-110765** draft CR 44.060 addressing the issues raised at GERAN#49 (and highlighting new ones)
      - **GP-110810** CR 44.060 postponed (Rel-7) (for information only)
        - Companies invited to provide feedback offline
  - **GP-110931, GP-110932** CRs 48.018 (Rel-9+) agreed to correct RIM requirements for SON and UTRA SI transfer according to a request from RAN3 in GP-110783
    - Reply LS to RAN3 in **GP-110806**

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H(e)NB Enhancements (Rel-9) (1/3)

- **GP-110933, GP-110945, GP-110935, GP-110936** CR 44.018, 44.060 agreed
  - As per LS from CT1 in **GP-110796** Whether a MS is allowed to access a CSG cell is determined by checking both the CSG ID and the PLMN ID of the cell against the entries in the CSG Whitelist and the rPLMN
    - LS to CT1 in **GP-110966**

- **GP-110811, GP-110812** CRs 44.060 agreed: CSG Measurement reporting parameters received in PMO apply in packet transfer mode only

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Rel-10

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LCLS

- **GP-110826** CR 48.008 agreed
  - The CR is based on Stage 2 changes agreed by CT4 (but not approved by CT#52 yet) – Should these changes not be approved at CT#52, further changes to 48.008 will be required at GERAN#51
    - No conditional agreement
  - With these changes, LCLS work is deemed complete in GERAN(2)
  - Reply LS to CT4 in **GP-110825**

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elur-g

- **GP-110822** CR 48.008 agreed: definition of drift RNTI (D-RNTI) in Old BSS to New BSS Information IE

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TIGHTER

- Signaling
  - Following GERAN1 discussions, **GP-110938** Draft CR 24.008 endorsed
  - LS to CT, CT1 in **GP-110970**

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NIMTC (1/4)

- **EAB** (GP-110650, GP-110745)
  - EAB Information
    - Broadcast only in a new SI21 message
    - Optional struct (i.e. SI21 could be used for other purpose than EAB)
      - EAB information always broadcast when EAB is used
  - SI21 Indication:
    - Whether SI21 is broadcast or not and where (BCCH Norm or Ext) indicated either in SI3 Rest Octets if the WHERE field is not present (i.e. SI9 not broadcast) or in SI9 Rest Octets if the WHERE field is present
  - Whether EAB is used in the cell or not is determined by the presence of EAB information in SI21
  - SI21 broadcast
    - TC: fixed TC=4, with minimum periodicity of one in 4 instances of TC=4
    - Broadcast of SI21: on BCCH Ext if present, otherwise on BCCH Norm
    - No need seen for SI21 Change Mark
  - **GP-110704** CR 45.008 noted (GERAN1)
  - **Plenary: GP-110973** CR 44.018

  - **NOTE: GP-110824** CR 44.018 was not presented – submitted very late during the week

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NIMTC (2/4)

- **Low Access Priority (LAP)**
  - **GP-110757** Systems reasons for low priority indicator
    - A number of concerns raised that RACH Low Access Priority NAS Signaling access cannot fully address CN specific issues (e.g steering to particular CN nodes)
  - Still no consensus that a new access cause value on RACH is required for Low Access Priority NAS signaling
  - **Plenary: GP-110820, GP-110821** CRs 44.060
- **Implicit reject with wait timers (GP-110651, GP-110830)**
  - Proposal that
    - An MS configured for LAP (and allowed to access the cell as per EAB/ACB) would not access the cell if some "reject" indication (incl. "no-access" duration) is 1st detected
    - An MS configured for LAP and that has made an access attempt would be implicitly rejected
    - The "no-access" duration is provided by the BSS and configured by O&M
  - Concerns raised
  - **Plenary: GP-110830** CR 44.018
- **CCCH Congestion Avoidance**
  - **GP-110744** CR 44.060 postponed
  - Concerns raised on load detection on DL CCCH

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NIMTC (3/4)

- Comparison of “Ericsson” (LAP RACH + Reject timer) and “Renesas” (CCCH Load estimation) proposal
  - Rather consistent results displayed in GP-110701, GP-110743
    - However GP-110743 did not show results with the agreed assumption to use a single RACH procedure
    - The justification for LAP RACH was questioned based on the gains displayed
- **GP-110728** Separated CCCH for MTC
  - Concerns raised on the implied resource segregation
- **Plenary: GP-110944** Way forward on MTC Low Access Priority and Implicit Assignment Reject: Not available

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NIMTC (4/4)

- **Immediate Packet Assignment (IPA)**
  - Principle to assign packet resources to >1 MS with a single message (in a single block) – proposed as a generic mechanism
    - Further discussion in **GP-110616**
    - Some disagreement remain as to what parameters should be made common/individual
    - Further evaluation of the gains pending, taking into account legacy traffic
  - **GP-110617, GP-110618** CRs 44.018, 44.060 postponed

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TEI10 (1/3)

- Cell change order to CSG Cells in NC2 (cont'd)
  - GERAN#48: Measurement reports to be reported for CSG Cells
  - GERAN#49
    - Identification of a CSG cell using physical layer parameters with a CSG discriminator
    - No decision as to whether to use P(E)MR+PCCO or PCCN+PCCO
    - GERAN1 open issues on reporting limitations and criteria for reporting
  - GERAN#50
    - Updated WAs in **GP-110647** with a number of FFS
    - **GERAN2 Agreements**
      - CSG Discriminator re-confirmed (WA#3d)
      - Use PCCN + PCCO (WA#5a)
      - PCCN used as replacement of P(E)MR, following the measurement reporting procedures (WA #9a)
      - Network capability indicator that NC2 (i.e. PCCO) to CSG cell is supported (WA #7a)
      - No MS capability indicator needed (WA #8b)
    - Reporting limitations to be addressed in GERAN1
    - **Plenary: GP-110939** CR 44.060
    - **GP-110972** CR 44.018 agreed

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TEI10 (2/3)

- Misc.
  - **GP-110619** CR 44.060 rejected: inclusion of timeslot number in EGPRS PDAN Type 2
    - Additional clarification will be needed in Rel-11 regarding the handling of the Uplink Control Timeslot in a number of messages
- Unnecessary IRAT HO
  - GERAN#49: more work needed to check the feasibility of the proposal from RAN3. CRs postponed
  - GERAN#50
    - RAN3 clarification that CS Handover from E-UTRAN to GERAN is also applicable
    - Discussion in GP-110781, GP-110746: a number of issues to be resolved
    - Confirmation that the proposal is transparent to terminals
    - CRs in **GP-110748, GP-110749** postponed
    - LS to RAN3 in **GP-110816**

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TEI10 (3/3)

- A5/1 issues
  - Legacy terminals
    - **GP-110968** CR 44.018 agreed: alternating between different Neighbor cell description formats
    - **GP-110828** CR 44.018 agreed: indicates that the countermeasures should apply as soon as CIPHER MODE COMPLETE is received by the network
  - New terminals
    - Pending further input from SA4 – SMS on FACCH is still being proposed
    - Selective ciphering on SACCH: **GP-110762**, **GP-110763** postponed without presentation
- RACH Power Reduction
  - **GP-110747** CR 44.018 postponed: indication of network support of RACH power reduction

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Rel-11

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SIMTC (1/2)

- Simulation Assumptions (**GP-110603, GP-110623**)
  - **MTC AdHoc Agreements** (see GP-110774 for FFS)
    - Results reporting in 10s intervals required
      - Additional interval(s) can be contributed
    - Global average results required
    - Single RACH procedure required
      - Repetition of the RACH procedure can be contributed
    - Legacy traffic T3 required in conjunction with T1 and T2
      - T3+T2: Legacy traffic to reach a stable level before MTC traffic starts (10s intervals start when MTC traffic starts)
      - T3+T1: Both legacy traffic and MTC traffic to reach a stable level
      - Arrival rate of legacy mobiles: 5/s is required
        - 10/s, 20/s can be contributed
    - Agreed KPIs in 43.868 required to be evaluated
  - **GERAN#50**
    - Legacy PS / CS traffic proportions
      - 20/s with 5/s for PS and 15/s for CS
    - **FFS**
      - ASR benchmark for legacy traffic: no agreement
      - Prioritization between KPIs and whether additional KPIs are needed

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SIMTC (2/2)

- **RACH**
  - Comparison of “Ericsson” and “Huawei” proposals in GP-110702
  - GP-110703 pCR 43.868 to include “Ericsson” proposal noted

- Not presented
  - **Plenary: GP-110620** Evaluation on RACH solutions with mixed traffic
  - **Plenary: GP-110621** pCR to TR 43.868 on RACH Overload Control
  - **Plenary: GP-110742** Enhancement on RACH with mixed traffic
  - **Plenary: GP-110766** Enhancements to Hybrid Packet Channel

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Full MOCN

- **GP-110750** proposal to accommodate Full MOCN in GERAN
  - A number of open issues need further discussions
    - (MS) Indication of the Selected PLMN ID to the BSS is FFS
      - Whether AS signalling or BSS reading of NAS signalling is used is FFS
    - Whether PLMN-specific ACs need to be broadcast is FFS (see 3GPP TS 22.011)
      - ACs aim at protecting the radio access network: the need for PLMN-specific ACs is not clear. However note this is expected for EAB
    - Requirement for broadcast occurrence of PLMN IDs: Time for PLMN selection should not be impacted
    - Applicability of Neighbor Cell List(s) per PLMN
  - Companies invited to review the proposal offline
- **GP-110751** CR 43.022 Noted
- **GP-110752** CR 44.018 Postponed
- **GP-110753** CR 45.002 Noted

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TEI-11

- Extending Measurement Report for rSRVCC
  - Discussion in GP-110741 – Linked to LS from SA2/RAN2 in GP-110588, GP-110785
  - The issue is to enable the MSC to contact the *serving PS node* with which a PS connection is established (IMS Registration is a pre-requisite for rSRVCC) so rSRVCC can proceed
  - Agreement not to extend measurement report to include the MS PS id (RAI+TLLI or RAI+PTMSI+PTMSI Signature or GUTI) .
  - No agreement that AS changes (Handover Complete, Assignment Complete) are necessary at this stage – more discussions needed
  - LS to SA2 in **GP-110802**

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AOB

- **Plenary: GP-110971** Proposed Study Item on GERAN Enhancements for Mobile Data Applications
  - Some support that studies are needed that is not currently covered by the MTC Study Item
  - Clear distinction required vs. MTC Study Item to avoid overlap in order
    - To make the best use of our resources in GERAN2
    - To avoid duplication of the work
  - Issue: characterizing the distinction above
  - No agreement: **Plenary**

- **Closure of R99**
  - GERAN2 **supports** MCC Recommendation to close R99
    - The latest R99 CRs handled by GERAN2 were on 04.06 for fill bits randomization in 2009 (@GERAN#42)

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Outgoing LSs

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Outgoing LSs

- [GERAN2] **GP-110801** Reply LS to CT1 on NAS Signalling Low Access Priority Indicator in Paging Response
- [GERAN2] **GP-110802** Reply LS to SA2 cc RAN2 on Extending measurement report for rSRVCC
- [GERAN2] **GP-110804** Reply LS to CT4 on AoIP and Mid-Call Codec Negotiation
- [GERAN2] **GP-110805** Reply LS to SA2, RAN3, CT4 cc CT1 on Transfer of SPID during (inter-RAT) handover
- [GERAN2] **GP-110806** LS to RAN3 cc RAN2 on RIM requirements for SON and UTRA SI Transfer
- [GERAN2] **GP-110816** LS to RAN3 cc RAN2 on Enabling detection of unnecessary Inter RAT Handover for A/Gb mode BSS
- [GERAN2] **GP-110825** LS to CT, CT4 on Update of LCLS Configuration
- [GERAN2] **GP-110990** Reply LS to SA3 cc RAN2, RAN3, CT1 on Security context mismatch in UMTS and GSM
- [GERAN2] **GP-110992** Reply LS to CT1 on PLMN and CSG whitelist handling in H(e)NB
- [GERAN2] **GP-110970** LS to CT1 on TIGHTER Signalling

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Next Meetings

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Next Meetings

- GERAN2#51 30 Aug – 1 Sept 2011 Göteborg, Sweden
- GERAN2#52 22-24 Nov 2011 Bratislava, Slovakia
- GERAN2#53 28 Feb – 1 Mar 2012 TBD, EU
- GERAN2#54 15 – 17 May 2012 TBD

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