3GPP TSG GERAN2#57

Chairman's Summary – GP-130262

Innovative solutions
for tomorrows challenges

Chairman: Guillaume SEBIRE
Secretary: Gert THOMASEN (MCC Report: GP-130260)

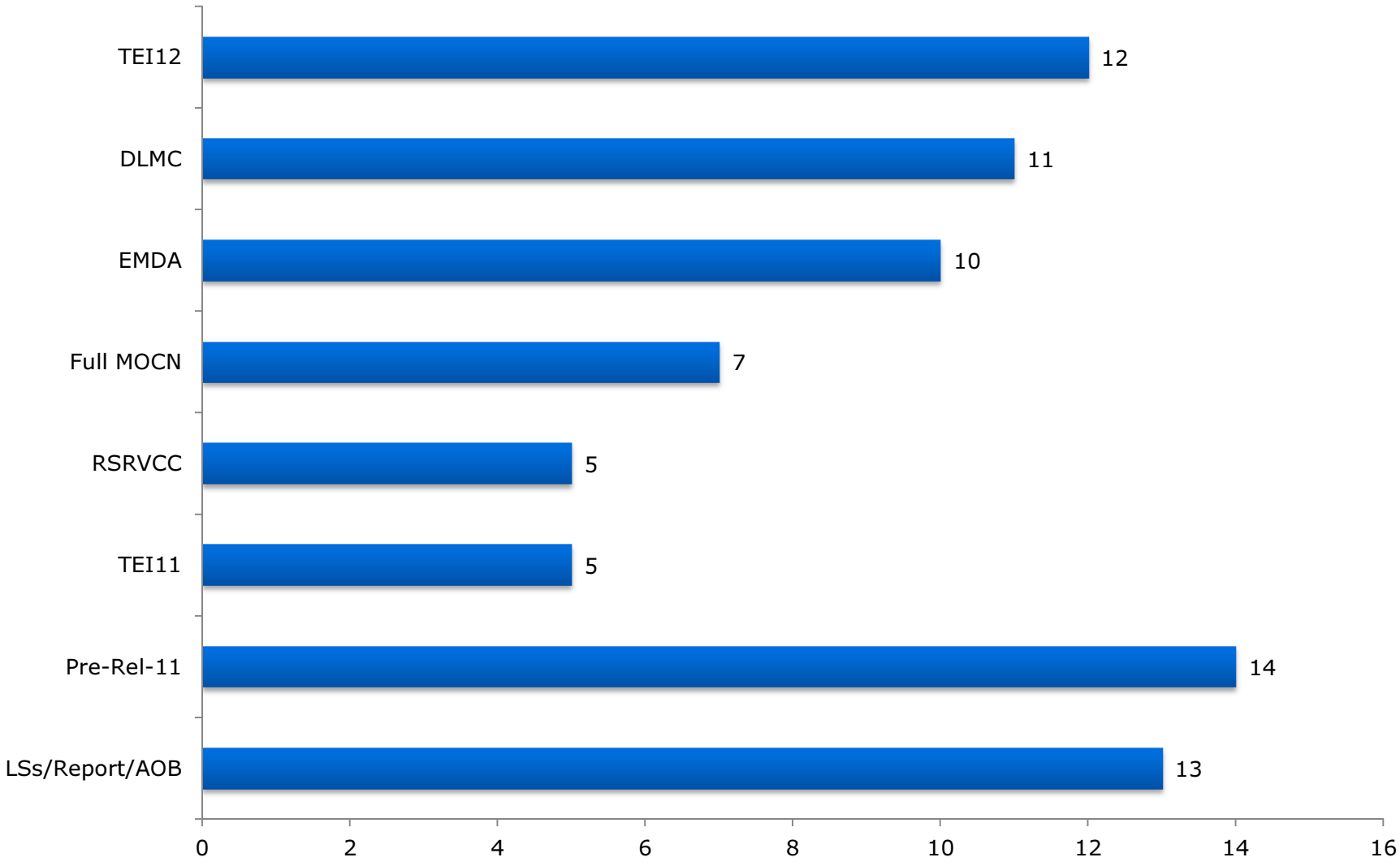
©2013 Renesas Mobile Corporation. All rights reserved.

Incoming Contributions

©2012 Renesas Mobile Corporation. All rights reserved.

Incoming Contributions

Total: 77 (132)



©2013 Renesas Mobile Corporation. All rights reserved.

Schedule

©2012 Renesas Mobile Corporation. All rights reserved.

Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
9am		LSs Pre Rel-11	DLMC	Revisions	
10.30am		Coffee	Coffee	Coffee	
11am		FULL MOCN	DLMC EMDA	Revisions	
12.30pm		Lunch	Lunch	Lunch	
2pm		FULL MOCN RSRVCC	EMDA	Revisions	
3.30pm		Coffee	Coffee	Coffee	
4pm		TEI11 EMDA	EMDA TEI12 / Other	Revisions	
6.30pm			♬ ♬ ♬		

©2013 Renesas Mobile Corporation. All rights reserved.

Pre Rel-11

©2012 Renesas Mobile Corporation. All rights reserved.

Misc. (1/2)

- Misc.
  - GP-130228 CRs 48.008 agreed (Rel-11) adding missing reference to 28.062 for the definition of compatible Codec Type and Codec Configuration
    - Rel-8, Rel-9, Rel-10 versions rejected in GP-130175, GP-130176, GP-130177.
    - According to LS from CT4 received at GERAN#56 on Compatible Codec Types and Configurations for TFO and TrFO (GP-12136, GP-131421)
- Extension information in DTM Handover Command
  - GERAN#56: Discussion in GP-121310: Issue with the limited size of the extension information in DTM HO CMD (as of Rel-7) vs. the nr. of bits required for one or more Rel-9 features
  - GP-130227, GP-130149 CRs 44.060 agreed (Rel-10+)

©2013 Renesas Mobile Corporation. All rights reserved.

Misc. (2/2)

- CS Fallback
  - GP-130252, GP-130253, GP-130254, GP-130232 CRs 44.018 agreed (Rel-8+): speed up access upon CSFB with CCO from E-UTRAN similar to the Redirection case in Rel-9: a MS is not required to do a complete acquisition of system information in GERAN if min information (SI3, (SI13,) (SI1)) was already received in *MobilityFromEUTRACommand*
    - *Rel-9+ are not mirrors of Rel-8*
  - GP-130182, GP-130183, GP-130184, GP-130185 CRs 45.008 noted: alignment needed as per WG2 agreement

©2013 Renesas Mobile Corporation. All rights reserved.

Rel-11

©2012 Renesas Mobile Corporation. All rights reserved.

Full MOCN + DSAC (1/2)

- Support of mobility to other RATs
  - GERAN#56: Way forward for supporting MS:
    - SI23 message including, per PLMN, up to 3 frequencies and priorities per RAT (UTRAN/E-UTRAN) and mode (FDD/TDD), as well as associated thresholds
      - If no UTRAN and/or EUTRAN info is provided for a given PLMN in SI23, then there is NO interworking with UTRAN and/or E-UTRAN towards that PLMN in this cell
    - Inter-RAT Measurement parameters acquired as per legacy means
  - GP-130256 CR 44.018 postponed: misc. essential corrections on SI23 acquisition and NCLs construction
    - Open issue: reference to NCL in measurement reporting. This issue will be solved by GERAN#58
    - GP-130110 CR to 45.008 (identified as needed in GERAN#56) noted

©2013 Renesas Mobile Corporation. All rights reserved.

Full MOCN + DSAC (2/2)

- Indication of Selected PLMN at handover:
  - Discussion and way forward in GP-130194 endorsed
  - At CS handover to a shared GERAN
    - CM3 IE including FULL MOCN support: CM3 IE obtained by the TBSC through the CN as today
    - Selected PLMN index indicated by the target in the (DTM) Handover Command, and corresponding LAI (and RAC) in SI6 upon detection of the UE in the new cell (triggering RAU in DTM, using the PLMN index received)
  - At PS handover to a shared GERAN
    - MS RAC IE including FULL MOCN support obtained by the TBSS as part of the SBSS to TBSS container
    - Selected PLMN index indicated by the target in the PS Handover Command, and corresponding RAI in SI3/SI13 (in the TBSS to SBSS container, then on PACCH in the source cell), triggering RAU in the new cell using the PLMN index received.
  - GP-130251 CR 43.055 DTM Handover procedure in shared GERAN endorsed
  - GP-130246, GP-130247, GP-130236, GP-130237, GP-130245 CRs 44.018, 44.060, 48.018, 48.008, 24.008 agreed/endorsed
    - LS to CT1 in GP-130238

©2013 Renesas Mobile Corporation. All rights reserved.

rSRVCC (1/2)

- Handling of UE E-UTRA Capabilities in the CS domain (1/2)
  - **Alt1:** GERAN#56: GP-121320: proposal to define a short E-UTRA Capabilities to address GERAN limitations
    - Concern raised that this is up to RAN2 to define based on limitation in GERAN
  - **Alt2:** GERAN#56: GP-121301: proposal *not* to send the capabilities, but instead for the source BSS to notify the target eNB of some supported E-UTRA freq/bands based on measurement report from the MS in GERAN
    - Misc concerns raised on the proposal (violation of the source adapts to target principle, impact to eNB)
  - **Alt3:** GERAN#56: GP-121326 proposal for the BSS to obtain the information from the SGSN
    - Misc. concerns raised that the BSC may have no PS connection during the CS call (even if the SGSN has the needed information) or may not have had one

©2013 Renesas Mobile Corporation. All rights reserved.

rSRVCC (2/2)

- Handling of UE E-UTRA Capabilities in the CS domain (2/2)
  - LSs from CT1, CT4 in GP-130082, GP-130083
  - LS from RAN2 in GP-130085 indicating Alt2 was not agreed yet and requesting GERAN to consider a solution

  - GP-130165: resubmission of Alt2
  - GP-130201: addresses GP-130165 (Alt2) and requests a more thorough investigation be made in RAN2. This document is very much RAN2 related and should be discussed in RAN2.
  - GP-130179: proposal to
    - Alternative 1: provision of E-UTRAN INTER RAT HANDOVER INFO to target eNB transparently through the core network – solution impacting CT1, CT4, RAN2, RAN3 groups (and SA2).
    - Alternative 2: restrict rSRVCC applicability to the support of inter-RAT PS Handover to E-UTRAN when the BSS can build the Source eNB to Target eNB transparent container
    - Associated CRs in GP-130180, GP-130181 noted/postponed

  - Note: the same issue exists for PS Handover to E-UTRA <u>as of Rel-8</u>
  - Reply LS in GP-130258

©2013 Renesas Mobile Corporation. All rights reserved.

TEI11

- E-UTRA Wideband RSRQ measurements
  - GERAN#56: no contribution other than a LS from RAN4 in GP-121352
  - GERAN#57: LS from RAN2 in GP-130087
  - GP-130162, GP-130243, GP-130240 CRs 44.018, 44.060, Draft CR 24.008 postponed / endorsed
    - Further discussion needed in GERAN1
    - Further check of the signaling needed
  - Reply LS in GP-130226 to be drafted/sent by GERAN1
- Misc.
  - GP-130150 CR 48.018 agreed: editorial correction

©2013 Renesas Mobile Corporation. All rights reserved.

Rel-12

©2012 Renesas Mobile Corporation. All rights reserved.

TEI12 (1/3)

- GP-130167 proposal to not trigger a cell reselection failure when the network issues a PCCO while the Ready Timer is *not* running
  - GERAN#56: No support the scenario is valid and the change is needed
  - GERAN#57: No support, 4 objections to the CR
    - GP-130168 CR 44.060 rejected. Issuing a PCCO when the Ready Timer is not running cannot be considered a normal case.
- GP-130174 proposal for PWS indication in connected mode
  - Proposal to indicate whether or not PWS WN is ongoing, while in dedicated mode / dual transfer mode: 1 bit in SI6
  - LS from SA1 in GP-130092: No Stage 1 requirement exists, yet the proposal does not violate existing Stage 1 requirements. Support if added must be conditional (in the network and UE) upon operator policy and/or regulatory requirements Additional service requirements may be needed in which case they would be specified in Rel-13.
  - GERAN2 Conclusion: ETWS mechanism (namely through APPLICATION INFORMATION) has already been defined and can be used. No new mechanism needed.
  - GP-120172 CRs 44.018 rejected

©2013 Renesas Mobile Corporation. All rights reserved.

TEI12 (2/3)

- EARFCN extension
  - LS from RAN2 in GP-130086
  - Discussion in GP-130206
    - no extension of EARFCN address space
    - Use of locally unused UL EARFCNs in GERAN to accommodate new carriers
  - More time needed. Decision expected at GERAN#58
- MFBI support
  - LS from RAN2 in GP-130088
  - Discussion in GP-130151, GP-130206. Proposals to
    - Either no MFBI indication in system information; and possibly
      - MS supporting a given band, to support EARFCNs of applicable overlapping bands
      - MFBI indication in Measurement Info / Packet Measurement Order and/or Band support in CM3/MS RAC
    - Or MFBI indication in system information
  - More time needed. Decision expected at GERAN#58

©2013 Renesas Mobile Corporation. All rights reserved.

TEI12 (3/3)

- Energy-efficient AGCH monitoring
  - Proposal for the MS to take into account the BSS max response time when matching an Immediate Assignment response with only the last transmitted Channel Request
  - GERAN#55, #56: Misc. concerns expressed (concepts, evaluations contributed)
  - GERAN#57: GP-130155 provides further evaluation
  - Further work needed

©2013 Renesas Mobile Corporation. All rights reserved.

Downlink Multicarrier (1/2)

- Working Assumptions: GP-130241 [PLENARY]

- GP-121271 discussing means to mitigate blocking due to Wideband MS receiver, by using a periodical single carrier operation
  - No feedback on L2/3 aspects of this proposal
- GP-130215 DLMC - Managing the increased risk of blocking for mobile stations in multicarrier mode (update of GP-121271)
  - More time needed on the proposed WA4, WA5 in this paper
- GP-130217 DLMC – Support of non-contiguous reception
  - Concerns raised on multiband support – Plenary discussion
- GP-130120: PDAN message capacity
  - GERAN#56: GP-121277 proposal for a new PDAN message to accommodate up to 4 carriers
  - GERAN#57: proposal to go up to 16 carriers (WA4 partly agreed in WG1) requires further discussion
    - UL/DL imbalance must be addressed: Polling/ack /nack efficiency
    - No agreement on simultaneous multiband operation
  - Misc. comments and clarification

©2013 Renesas Mobile Corporation. All rights reserved.

Downlink Multicarrier (2/2)

- GP-130127 Draft CR 24.008
  - More work needed – further considerations on multiband support, multislot class reductions (see 45.002 as well)
- GP-130129 CR 43.064
  - Stability of the concept is first required
- GP-130128 Draft CR 45.002 – no comments
- GP-130130 CR 45.008 – no comments
- GP-130171 DLMC - Impact on Assignment Messages
  - Per TN change of UL carrier is not in scope of the DMCG WID "*On the uplink, radio blocks shall be allocated on a single radio frequency channels in any given radio block period.*"
  - GP-130169, GP-130170 CR 44.060, 44.018 postponed

©2013 Renesas Mobile Corporation. All rights reserved.

Study GERAN EMDA (1/2)

- New version of TR 43.802 in GP-130257 [Plenary] (See next slide)
- Workplan: GP-130156

- Hybrid Packet Channel
  - Further evaluation in GP-130190. Some concern raised on the need for the proposal.
  - GP-130191, GP-130192 CRs 44.018, 44.060 postponed
- OSAP
  - Further discussion in GP-130153, GP-130166, GP-130207. No agreement on the papers.
  - Some concerns raised that the “wall” scenario (4CCCHs with IPA) aimed by OSAP is not realistic and is not being addressed by the agreed assumptions in the EMDA study (with the IM model)
- Improved RR usage / Fast TBF re-establishment
  - Further discussion/evaluation in GP-130143, GP-130154. No agreement on the papers.
  - Some concerns raised on the need for FTR and that it would not address the “wall” scenario. Similar to HPCH with the current assumptions, moving the load off the CCCH seems not justified
- USF extension
  - Further discussion in GP-130152. Some concerns raised on the quoted references/conclusions in the paper that are not in line with earlier discussions
  - No conclusion USF space is a bottleneck

©2013 Renesas Mobile Corporation. All rights reserved.

Study GERAN EMDA (2/2)

- Conclusion based on the IM+Web Model in TR 43.802:
  - No further CCCH improvements are seen necessary at this stage based on this model and the studies made
  - USF extension: no consensus USF is a bottleneck
  - Further PDCH evaluation needed
  - Operators are invited to contribute whether additional scenarios should be studied

  - GP-130255 endorsed, for inclusion in the TR
  - GP-130257: Updated TR 43.802 including GP-130255 [PLENARY]

©2013 Renesas Mobile Corporation. All rights reserved.

Other

- LS from SA2 on MTCe in GP-130093
  - GP-130108: identifies that only the proposals in the TR for "*Extended DRX in idle mode*" and "*Wait until better coverage*" are relevant in GERAN
  - Further investigations needed in GERAN2. A detailed response will be provided at GERAN#58
  - Reply LS to SA2 cc RAN, RAN3, GERAN, SA in GP-130249

- ER-GSM
  - GP-130101 Draft CR 24.008: introduction of ER-GSM band capability noted
  - Further work on co-existence studies are needed in GERAN1 before the CR can be sent to CT1

- New WIDs proposed in
  - GP-130288: DL MIMO: endorsed in GERAN2
    - Should a focus be made on single carrier, it should be documented in the WID
  - GP-130285: VAMOS-III (MSRD for VAMOS): endorsed in GERAN2

©2013 Renesas Mobile Corporation. All rights reserved.

Outgoing LSs

©2012 Renesas Mobile Corporation. All rights reserved.

Outgoing LSs

- Source GERAN WG2
  - GP-130222 LS to SA cc CT, CT1, CT3, CT4, SA2 on providing information on transcoding functions in 3GPP standards
  - GP-130249 LS to SA2 cc RAN, RAN3, GERAN, SA on requesting input on MTCe solutions
    - Sent out on Thursday 28 Feb to RAN
  - GP-130258 LS to RAN2, SA2, CT1, CT4 cc RAN3 on Provisioning of E-UTRA Radio Capabilities in GERAN

- Source GERAN
  - GP-130238 LS to CT1 on GERAN network sharing support

©2013 Renesas Mobile Corporation. All rights reserved.

Next meetings

©2012 Renesas Mobile Corporation. All rights reserved.

Next meetings

- GERAN2#58 14 – 16 May 2013, Xiamen, PRC
- GERAN2#59 27 – 29 August 2013, Sofia, Bulgaria
- GERAN2#60 19 – 21 November 2013, TBD

©2013 Renesas Mobile Corporation. All rights reserved.

Renesas Mobile

www.renesasmobile.com

©2013 Renesas Mobile Corporation. All rights reserved.