3GPP TSG GERAN2#54

Chairman's Summary – GP-120539

Innovative solutions
for tomorrows challenges

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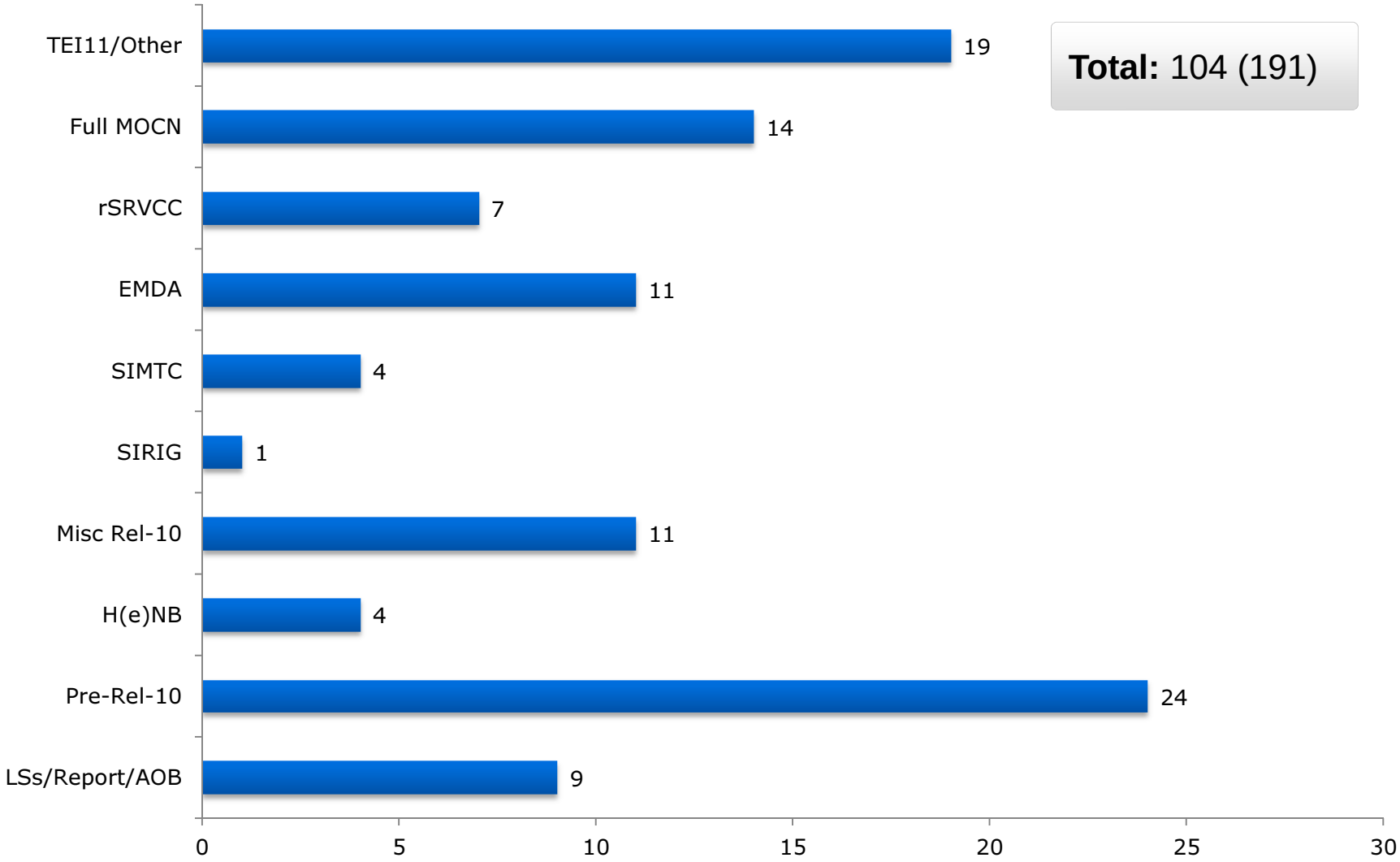
Secretary: Gert THOMASEN (MCC Report: GP-120805)

Incoming Contributions

Incoming Contributions



Total: 104 (191)

Schedule

Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
8am		LSs	SIRIG, SIMTC	Revisions	
		Pre Rel-10	GERAN EMDA		
10.30am		Coffee	Coffee	Coffee	
11am		H(e)NB	EMDA	Revisions	
		Rel-10			
12.30pm		Lunch	Lunch	Lunch	
2pm		Rel-10	TEI11	Revisions	
		FULL MOCN			
3.30pm		Coffee	Coffee	Coffee	
4pm		FULL MOCN / DSAC	Other	Revisions	
		rSRVCC			
8pm					

Pre Rel-10

Misc.

- Misc.
  - GP-120707, GP-120708: CR 44.071 agreed (Rel-9)+: wrong CR implementation
  - GP-120674 CR 44.060 agreed (Rel-9): wrong CR implementation
- Interworking [Rel-8+] (1/2)
  - GP-120619, GP-120620, GP-120621, GP-120622 CRs 44.060 postponed (Rel-8+): corrections to PS HO Command for RRC container (See LS from RAN2 in GP-120548)
    - No agreement – further feedback from RAN2 requested in LS GP-120792
  - GP-120713 - GP-120720: CRs 44.018, 44.060 agreed (Rel-8+): agreement to inherit individual priorities *also* at inter-RAT handover
    - LS to RAN2 in GP-120795
  - Individual Priority Information: Signaling and storage limits discussed in GP-120665 suggesting that the amount of individual priority information the MS is required to handle be harmonized across 3GPP –no signaling changes, but a permitted behavior is defined allowing the MS to delete individual priorities if the limitation is violated.
    - GERAN2 View: the principle of the proposal to define limits is valuable
    - GP-120778 CRs 44.018 agreed (Rel-11+) and applicable to earlier releases.
    - LS to RAN2 in GP-120779

[Rel-9] H(e)NB Enhancements

- PLMN and CSG Whitelist Handling (cont'd)
  - GERAN#52 – Working assumptions
    - Dedicated mode:
      - MS not to report CSG cells following handover until it detects the RPLMN has changed such that:
        - » Following a handover, SI6 LAI used by the MS to determine the PLMN of the new cell
        - » Use the {PLMN}new cell received in SI6 instead of the {rPLMN, EPLMN list}old cell to perform the access check in order to determine whether CSG cells are allowed or not
    - Dual transfer mode:
      - To use the [PS] RPLMN/EPLMN list data from the RAU. LS to CT1 in GP-111889
  - GERAN#53
    - LSs from CT1 and CT4
    - Dedicated mode:
      - GP-120345, GP-120346 CRs 44.018 postponed though in line with the WA above
    - Dual transfer mode:
      - Working assumption: in case of DTM Handover, the CSG membership check is done by the SGSN. This will be verified by CT1, CT4
      - GP-120192, GP-120193, GP-120194 CRs 48.008 postponed: disabling CSG Access check in the MSC.
    - Reply LS to CT1, CT4 cc RAN2, RAN3, SA2 in GP-120443 to verify the above working assumption and clarify the MSC CSG membership check from CT specifications (GERAN specifications are consistent. CT specifications are incomplete)

[Rel-9] H(e)NB Enhancements

- PLMN and CSG Whitelist Handling
  - Proposal in GP-120643 to only address the non-problematic case of inter PLMN Handover to an EPLMN of the RPLMN and to use the {PLMN}new cell received in SI6 to perform the access check when the new {PLMN}new cell is an EPLMN
  - Other (problematic) cases to be handled in Rel-11 pending feedback from CT groups
  - GP-120799, GP-120790, GP-120791 CRs 44.018 agreed
    - DTM Case: further clarification will be considered regarding “RPLMN” after RAU, though the common understanding is that following RAU, the RPLMN refers to the “RAU RPLMN”

Rel-10

LCLS

- LCLS Control Plane Indicator for DL U-plane data during handover
  - GERAN#53
    - GERAN2 Agreement to proceed with LCLS Control Plane indicator for DL user plane data during handover, upon approval of Stage 2 by CT
    - GP-120224, GP-120225, GP-120226, GP-120227 CR 48.008 postponed
    - LS to CT, CT4 in GP-120302 (response to GP-120056 and GP-111547) – sent to CT#55
  - GERAN#54
    - GP-120731, GP-120732 CR 48.008 agreed (Rel-10+): LCLS control plane indicator for DL user plane data during handover
    - GP-120608, GP-120609 CR 48.008 agreed (Rel-10+): Stop UL data transmission at handover failure

TEI10

- GP-120729 CR 48.018 agreed (Rel-10) correction of the Application Error Container IE in the RAN-INFORMATION PDU for SON transfer
- GP-120733, GP-120734 CRs 44.018 agreed: Removal of the Spare Half Octet from Immediate Assignment Reject

- Misc CSN1 corrections to 44.060 provided in GP-120710 addressing features specified back in Rel-6 (among others)
  - Time requested to verify the compatibility with MS on the field
  - GP-120767, GP-120710 CRs 44.060 postponed
  - Decision expected at GERAN#55
- GP-120711, GP-120712 CR 44.060 Corrections to CSN1 release extension in Extension Information IE

- NIMTC:
  - GP-120776, GP-120777 CRs 44.018 agreed: Correction to the handling of T3234 and T3126 (T3236, T3146) taking into account the implicit reject procedure

Rel-11

Full MOCN (1/3)

- WID Update to include GWCN – GP-120737 endorsed [Plenary]
  - LS to SA2 in GP-120803
- LS from SA2 in GP-120556 on Handover in FULL-MOCN-GERAN
  - No decision
- Previous agreements:
  - Full MOCN support bit to be added in sys.info
  - Broadcast of PLMN IDs: legacy + up to 4 additional
  - Indication of Selected PLMN (PS Domain) – MS > BSS
    - Length Indicator (LI) - based solution
      - LI + Selected PLMN index (See Ericsson/ALU proposal)
        - » (or *n* LIs i.e. one LI per PLMN? i.e. less overhead)
    - Specific indication needed when Selected PLMN = Common PLMN (as per SI3) to avoid rerouting in the BSS (vs. Rel-10 MOCN and non-FULL MOCN MS)

      ⇨Selected PLMN Index: 5 indices
  - GP-120343 Agreements from GERAN#53 drafting session

Full MOCN (2/3)

- Radio interface issues summarized in GP-120629 (incl. DSAC)
  - Concerns with reusing SI16 given SoLSA has not been deployed nor tested, while a requirement would be put on FULL-MOCN-GERAN MS to be able to skip over SoLSA information.
  - GERAN2 agreement to introduce a new message System Information Type 22.
- Support of mobility to other RATs
  - GP-120610: proposal to add bitmaps (one per PLMN) in FULL MOCN SI messages pointing to given SI2quater instances where the inter RAT info per PLMN is contained
  - GP-120653: proposal to add bitmaps (one per PLMN) in FULL MOCN SI message pointing to applicable frequencies to a PLMN
  - Work in progress
- Indication of Selected PLMN ID by the MS to the BSS
  - CS: NAS as per previous agreement
  - PS: LI as per previous agreement
    - Incl. a specific indication when Selected PLMN = Common PLMN (as per SI3) to avoid rerouting in the BSS (vs. Rel-10 MOCN and non-FULL MOCN MS)
      - ⇨ Selected PLMN Index: 5 indices
- RLC/MAC changes: GP-120739 CR 44.060 postponed.
  - Approval expected at GERAN#55
- RR Changes: GP-120740 CR 44.018 postponed (CR 45.002 noted).
  - Approval expected at GERAN#55
- GP-120787 Draft CR 23.003 endorsed (NCC)
  - LS to CT4 will be sent once other CRs are approved (GERAN#55 expected)

Full MOCN (3/3)

- Indication of Selected PLMN ID on A/Gb interfaces (see LS from SA2)
  - CRs to 48.008 postponed: GP-120631, GP-120680
  - CRs to 48.018 postponed: GP-120632, GP-120681
  - Disagreement whether or not to use the Cell ID

rSRVCC

- Provision of Serving PS node information to the BSS
  - GERAN#53: Disagreement as to whether AS or NAS protocols should be used
  - LS from SA2 in GP-120551 (reply LS) and GP-120555
    - Reply to GP-120442 (guidance on 3GPP TS 23.216)
  - Discussion in GP-120647 comparing NAS vs Transparent Container
  - GERAN2 Decision: NAS solution
- Provision of IMS information
  - Discussion in GP-120730 recommending not to send IMS information in the Handover Command
  - GERAN2 Decision: IMS information provided transparently in the Handover Commnd

- GP-120780 CR 44.018 postponed (GP-120648 rejected – single CR to go fwd)
- GP-120781 CR 48.008 postponed (GP-120649 rejected – single CR to go fwd)
- GP-120743 CR 44.060 postponed
- GP-120744 CR 48.018 postponed
- CRs to be used as a baseline for next updates. Approval expected at GERAN#55
- GP-120806 LS to SA2 on rSRVCC

SIRIG

- No input

TEI11 (1/4)

- Immediate Packet Assignment
  - GERAN2#52 Agreement on IPA principle and on IPA specification in Rel-11 without any additional simulation effort required
  - GERAN#53: confirmation of the above
  - IPA to be taken into account in EMDA.
  - Companies invited to provide feedback offline
  - GP-120604, GP-120568 updated proposal (indication of IPA use in paging messages instead of system information) – no concerns raised

  - GP-120793 CR 44.060 agreed
  - GP-120801 CR 44.018 agreed
  - GP-120798 Draft CR 24.008 endorsed
    - LS to CT1 in GP-120771

TEI11 (2/4)

- GP-120573, GP-120572 CR 48.018, 48.008 postponed on EAB indication on the A and Gb interfaces – related to FULL MOCN
  - Further discussions pending in CT groups and SA2
- GP-120574 Draft CR 44.060: misc. changes to PS HO COMMAND messages
  - Companies encouraged to provide feedback offline – the proposed changes will impact earlier releases
- GP-120628 CR 44.018 postponed: support of dual priority devices
  - Work ongoing in CT1/SA2
- GP-120675 CR 44.060 agreed: wrong CR implementation
- GP-120678 CR 44.018 agreed: CSFB: correction to the CHANNEL REQUEST message to ensure alignment with the information provided in the paging notification received in source RAT.
- GP-120558 discussion on absence of optional parameters in ptp PACCH messages (and associated CR to 45.008 in GP-120557): noted. Will be investigated offline

Other (1/2)

- Mobility Robustness Optimization
  - LS from RAN3 in GP-120550 requesting feedback on scenarios a) and b)
    - Scenario (a): RLF happened in LTE and RLF report is also provided there. Since eNB retrieving RLF report is most likely not the same where RLF occurred the RLF report is forwarded to the last serving cell via X2/S1 where the analysis is made.
      - *RAN3 assumption: detection done by upload of UE RLF report when returning to LTE*
    - Scenario (b): The UE delivers the RLF report when reconnecting to LTE. In case of HOF, the eNB receiving the RLF report performs the analysis. In case of RLF, the RLF report is forwarded to the eNB handling the last serving cell where the analysis is made
      - *RAN3 requesting feedback on the benefit of the detection and possibly correction of this when the failure happens during or after a HO from 2G to LTE. If seen beneficial, RAN3 would also welcome feedback on possible solutions for detection of this scenario*.
  - Analysis provided in GP-120642, GP-120685
  - No issue with a) (transparent to GERAN)
  - No consensus there is a need to do something for scenario b)
  - Companies requested more time to look into this

Other (2/2)

- MS RAC limitations
  - GERAN#53: GP-120327 highlights severe limitations with signaling MS RAC based on existing mechanisms (PRR + AMSRAC messages) depending on the feature combinations
  - GERAN#54: GP-120679 details complementary approaches to address issues with the transmission of MS RAC
    - GERAN2 view to start by attempting to resolve the issue on the radio interface without impacting other interfaces
    - Companies encouraged to provide feedback prior GERAN#55

Study SIMTC

- Hybrid Packet Channel
  - Discussion and simulations in GP-120638 indicates no degradation of legacy traffic, whilst improving the access delay for MTC traffic in the simulated T2+T3 scenario, however some general concerns raised about the need for optimization of T2 scenario. Some support expressed regarding additional “AGCH” capacity it provides but no consensus to proceed
  - Pseudo-CR in GP-120639 noted
- GP-120745 Pseudo-CR 43.868 endorsed: conclusion of CCCH overload control endorsed wrt impact to legacy services

Study GERAN EMDA (1/2)

- GP-120800 TR 43.802 endorsed. Later revised in GP-120807
- GP-120560 Workplan: noted

- Simulation Assumptions
  - Discussions on traffic model in GP-120567, GP-120640, GP-120686, GP-120722 (OSAP)
  - GP-120772 Analysis of QQ chat trace statistics
    - Refinement of the model endorsed at GERAN#53 in GP-120240 that proposed the IM message inter-arrival time include two exponential distributions instead of only one, to include the Request-Response approach
    - Companies to provide feedback offline. Will be addressed in the next telco

  - Need for a common set of simulation assumptions that allows comparison between different proposals. This does not preclude companies bringing in additional simulations based on different assumptions, but at minimum the common assumptions must be used

Study GERAN EMDA (2/2)

- Optimized system access procedure – work in progress
  - Proposals in GP-120623, GP-120624
  - Evaluation in GP-120605, GP-120625
  - *Proposal aiming at improving the AGCH capacity through*
    - *New Random Access message indicating OSAP capability (requiring new TSC): GERAN1 evaluation required*
    - *Providing common (static) radio resource parameters for several MS BCCH – System Information message*
    - *Providing per-MS PDCH assignment parameters, for up to 8 MS per message on AGCH – Enhanced Immediate Assignment message*
    - *Providing the remaining TBF parameters to individual MSs on PACCH – Additional TBF information message*
    - *Updated at GERAN#54 to include a temporary MS Id for speeding up DL assignments*
- GP-120683 Expanding identifiers space
  - Worth studying in general, however the data need to be clarified to precisely characterize what the problem is
- GP-120566 evaluation of the proposal made at GERAN#53 for sharing a USF among several MS on a time basis (by means of sub-channels)
  - GERAN#53: misc. questions on usage, performance, impact to legacy
  - Increase of PDCH throughput displayed. A number of questions raised (legacy users impact, TBF throughput, MS battery consumption, simulation assumptions and metrics)

Study on SPEED

- None

Study on VAMOS Enhancements

- None

Other work

- Downlink Multicarrier
  - GP-120691 noted
  - (Proposed Feature + BB WIDs in GP-120692, GP-120693, GP-120694) noted without presentation
- DL 2x2 MIMO for EGPRS
  - GP-120762 noted

Outgoing LSs

Outgoing LSs

- Source GERAN2:
  - GP-120792 LS to RAN2 on EUTRA message in PS Handover Command
  - GP-120796 LS to RAN3, SA2 on Energy Saving Solution in inter-RAT case
  - GP-120779 LS to RAN2 on signaling and storage limits for individual priorities
  - GP-120806 LS to SA2 on contents of Handover Required message for rSRVCC

- Source GERAN:
  - GP-120771 LS to CT1 on Introduction of IPA
  - GP-120795 LS to RAN2 on inheritance of individual priorities at inter-RAT handover
  - GP-120803 LS to SA2 on FULL-MOCN-GERAN

Next meetings

Next meetings

- GERAN2#55 28 – 30 August 2012, Vienna, Austria
- GERAN2#56 20 – 22 November 2012, Prague, Czech Republic

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