

3GPP TSG GERAN2#51

Chairman's Summary

Chairman: Guillaume Sébire

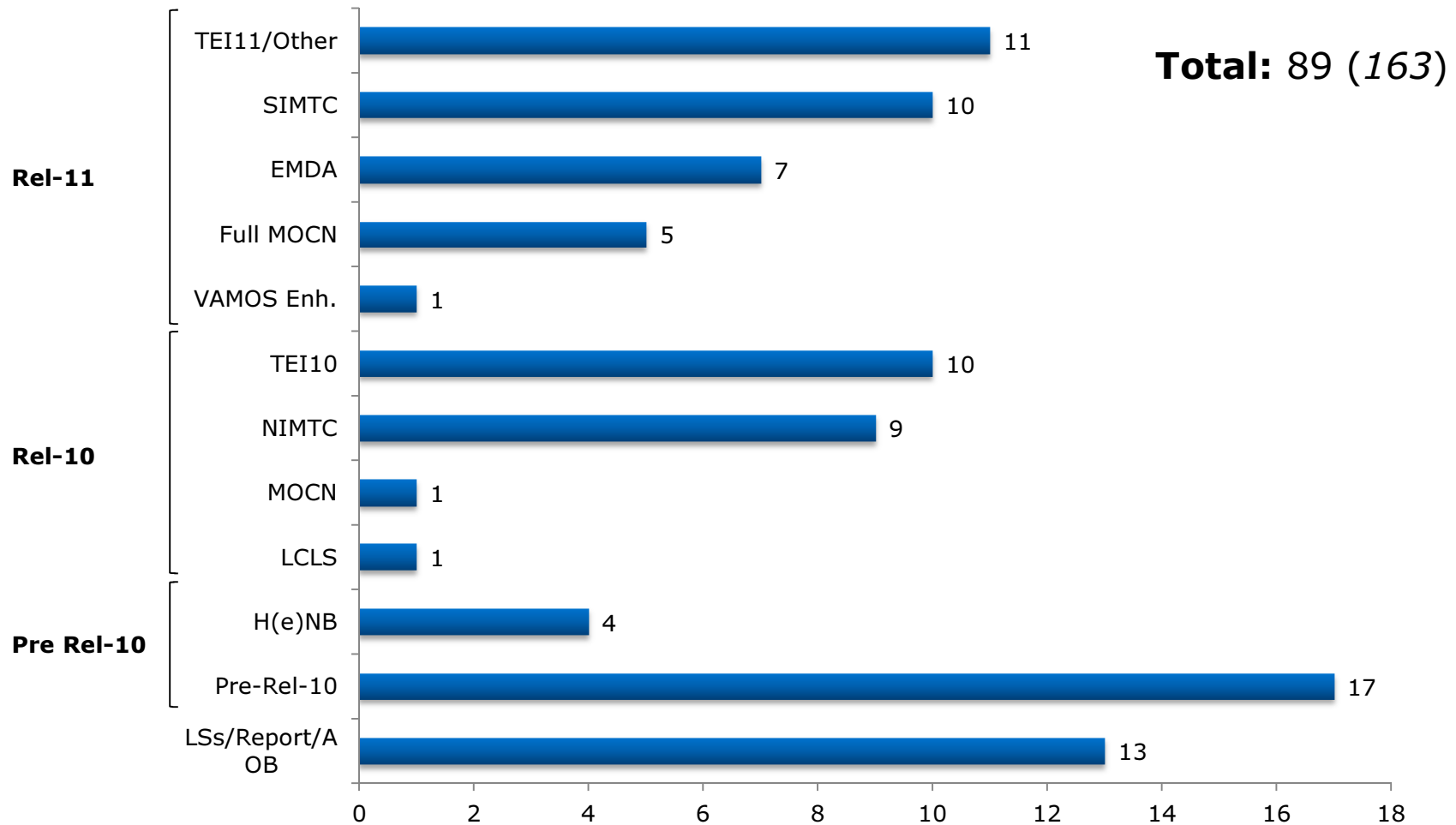
Secretary: Gert Thomasen (MCC Report: GP-111483)

Renesas Mobile Corporation
Renesas Mobile Europe

2011/9/2 Rev. 0.00

Incoming Contributions

Incoming Contributions



Schedule

Schedule

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

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

■ Misc.

- NOTE: RTTI coding issues, see GERAN#50 (work ongoing)
- Reporting of LQM with EGPRS2 and DLDC
 - **GERAN#50**
 - Restrictions with EGPRS PDAN TYPE2 capacity highlighted in **GP-110764**. Proposal to omit the ack/nack IE or to introduce a new message in order to fit more timeslot measurements
 - 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
 - **GERAN#51**
 - **GP-111276**: updated proposal (truncation of the message, reordering of fields (grouping TBF requests fields), new message) ⇒ Truncation of the message preferred (See CRs)
 - **GP-111308, GP-111309, GP-111310, GP-111311** CR 44.060 (Rel-7+) agreed: truncation of the EGPRS PDAN Type 2 (EGPRS Ack/Nack description). EFTA not considered in these CRs but should be in GERAN#52 (Rel-9+)

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

■ EFTA

- **GP-111306, GP-111307** CR 44.060 agreed: usage of UL control timeslot for EFTA

■ ETWS

- SA3 LS in **GP-111081** informing on a security issue with the current size of the digital signature
- **GP-111312** (endorsed) evaluates the impact of a larger digital signature in GERAN. The 4s delivery requirement can be met in investigated scenarios if BS_PA_MFRMS is reduced to 7. RSA (>112bits) remains a problem
- LS to SA3 in **GP-111304**, including the above

Misc. Pre-Rel-10 (3/3)

- **GP-111246** Discussion on ciphering at inter RAT handover:
 - Keys availability is a requirement so ciphering can be started i.e. CMC / SMC procedure must have been completed.
 - **GP-111247** CR 44.018 (Rel-7) postponed: will be investigated until GERAN#52
- GELTE
 - **GP-111313, GP-111314, GP-111315** CR 44.018 agreed: correction to the DEFAULT measurement control parameters in MI message (removal of inconsistencies)
 - **[Plenary] GP-111434, GP-111481, GP-111436, GP-111319, GP-111437, GP-111438** CR 44.018, CR 44.060 agreed: misc. clarifications and corrections to priority-based reselection. Removal of ambiguities.
 - **GP-111337, GP-111325, GP-111326** CR 44.060 agreed: DEFAULT_UTRAN_XXX parameters received in PMO apply only to freq added/modified by PMO

H(e)NB Enhancements (Rel-9) (1/2)

■ PLMN and CSG Whitelist handling

- **GERAN#50:** 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
- **GERAN#51:**
 - LSs from SA2, CT1, RAN2 in **GP-111068, GP-111076, GP-111268**
 - Working Assumption:
 - MS is a member only if the MS has (PLMN1, CSG-ID) in its whitelist, and PLMN1 is broadcast in the CSG cell (primary or other), and PLMN1 is ePLMN or RPLMN for the MS currently.
 - Open issue: previous inter PLMN HO (within GERAN) in dedicated mode/DTM could yield outdated RPLMN/EPLMN list in the MS: under investigation
 - **GP-111251** highlights issues with RPLMN, EPLMN list used for CSG Access Check following inter-PLMN handover i.e. CSG Access Check passes (resp. does not pass) when it should not (resp. should). Solutions proposed
 - No agreement on the problems at this stage
 - **GP-111252** DTM case addressed
 - **GP-111329, GP-111330, GP-111331, GP-111332** CRs 44.018, 44.060 agreed to include the Working Assumption
 - LS in **GP-111439**

Rel-10

LCLS

- **GP-111339** CR 48.008 agreed: correction and removal of ambiguity for local switching break at handover

MOCN

- **GP-111340** CR 48.018 agreed: misc correction to IEs and their format to ensure backwards compatibility

NIMTC

- **GP-111220** CR 44.018 agreed: alignment of EAB with 22.011, noting further clarification may be needed in 22.011
- **GP-111432** CR 44.018 agreed: introduction of implicit assignment reject
- LAP NAS Signalling:
 - **GP-111431, GP-111344** CR 44.060, 44.018 introduction of LAP NAS signalling indication as per GERAN#50 agreement for PS domain
 - **GP-111222, GP-111223, GP-111224** CR 44.018, 44.006, 48.008 rejected
 - Proposal for LAP Signalling indicator for CS domain (in LAPD, and forwarded to MSC).
 - No need seen for the proposal given the existence of NAS-level LAP indicator
 - Proposal not in line with the agreement made at GERAN#50 that, for CS domain, the NAS-level Low Access Priority is used within NAS signaling as currently specified i.e. no changes on radio protocols
 - **GP-111226** CR 48.018 rejected: no need seen to forward the low access priority NAS signaling indicator provided at contention resolution to the SGSN while a NAS parameter already exists i.e. functionality in the CN already exists

TEI10 (1/2)

- Cell change order to CSG Cells in NC2
 - **GP-111334, GP-111244** CRs 44.018, 44.060 (Rel-10) agreed
- **GP-111335** CR 44.060 agreed to allow prioritization of V(S) blocks over NACKED blocks
- **GP-111253** CR 48.018 agreed: Correction to the requirements related to the SON Transfer RIM application
- Unnecessary IRAT HO
 - GERAN#49: more work needed to check the feasibility of the proposal from RAN3. CRs postponed
 - GERAN#50: a number of issues highlighted. RAN3 clarification that CS Handover from E-UTRAN to GERAN is also applicable
 - GERAN#51: feedback from RAN3 (GP-111292) received addressing the issues from GERAN#50 in particular that no radio protocol changes are expected
 - **GP-111336, GP-111348** CRs 48.018, 48.008
 - LS to RAN3 in **GP-111305**

TEI10 (2/2)

■ A5/1 issues

- **GERAN#50:** solution agreed for legacy terminals (GP-110968, GP-110828). For new terminals, response pending from SA4 (SMS over FACCH)
- **GERAN#51:** New terminals
 - SA4 response in **GP-111084** that SMS on FACCH is not a viable solution from speech quality perspective (complementary to the previous SA3 response on Partial Ciphering on SACCH and associated guidance)
 - Further discussions on
 - Partial ciphering on SACCH (**GP-111333**, **GP-111234**: agreed conditionally to plenary approval)
 - Proposal in **GP-111146** to derive two separate Ck for TCH and SACCH
 - **GP-111100** CR 44.018 postponed
 - Requires SA3 expertise
 - Concerns on not completely addressing SA3 guidance
 - Proposal in **GP-111398** to use RAND to scramble known text on SACCH
 - Requires SA3 expertise
 - Concerns on not completely addressing SA3 guidance
 - Concerns on network impacts
 - **GERAN2 recommendation**
 - Approval of partial ciphering on SACCH in **GP-111333**, **GP-111234** in Rel-10; while
 - Additional improvements can be considered to improve Rel-10. SA3 expertise needed for **GP-111146**, **GP-111398**. Proposals to be submitted to SA3 directly.
 - LS to CT1 in **GP-111349**

Rel-11

Full MOCN (1/2)

■ GERAN#50

- **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

Full MOCN (2/2)

■ GERAN#51

- LS to SA, SA1, SA2, CT1 in **GP-111440**
- Misc discussions in **GP-111327, GP-111328, GP-111248, GP-111249, GP-111250**
- Signalling of selected PLMN ID from the MS to the network
 - Proposal for NAS (CS) and AS (PS) solutions
 - Proposal for full NAS solution
 - No agreement at this stage
- PLMN-specific ACs
 - For “Legacy AC”: missing 22.011 requirement
 - For EAB: 22.011 requirement. (WID updated expected in closing plenary)
- Broadcast of PLMN IDs
 - Timing: Impact on PLMN selection should be considered carefully
 - Number of PLMN IDs (in addition to primary PLMN ID): tbd, as per what can be accommodated in EGRAN
- Neighbor cell information
 - Mobility scenarios between a cell shared among several PLMNs and Ncells of PLMNs sharing that cell to be investigated – Ncell information to cater for this. Artificial restrictions should be avoided in the standard
 - Re-use of existing mechanisms is preferred
- Use of BCCH Extended
 - Assumed in the WID
 - Some support expressed for BCCH Norm if it can be accommodated in *some* scenarios – no agreement however
- Optional vs. mandatory for MS: no agreement at this stage

TEI11

■ 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-111202**
 - GERAN#50: further evaluation taking into account legacy traffic requested
 - GERAN#51: Further evaluation of the gains provided in GP-111201 taking into account legacy CS traffic. For PS traffic it is assumed that 100% of the accesses use IPA access i.e. max. gains are shown
 - Clarifications requested on the gains with lower penetration of this mechanism (PS) requested. Clarifications requested on the gain when PDCH resources are included in the simulations. Gains are expected (IPA may be most effective for assignments on BCCH carrier)
 - Concerns raised on Multislot class restrictions for One Phase Access
 - Concerns raised on mandating the IPA request when indicated as supported by the network, while the support indication from the network is not dynamic and legacy accesses provide more information at random access – criteria for using this TBD
 - Concerns raised on the restriction to 6-bit TA (not extended TA i.e. N/A to GSM450 at the moment)
- **GP-111126** proposal to accommodate IPA in EGPRS PCR
- **GP-111341, GP-111342** CRs 44.018, 44.060 postponed
- See also **GP-111065** (SIMTC) seen as a related proposal

TEI11

■ Fast Acquisition

- **GP-111229** discusses a potential issue with provision of Rel-8 UTRAN information
 - Concerns raised that the proposal is about signaling efficiency and addressing some BSS implementation issues but that Rel-8 definition is not erroneous: changing Rel-8 to accommodate for the proposal is not seen justified
 - **GP-111230** CR 44.018 postponed
- **GP-111231** proposes some enhancement to fast acquisition
 - Misc. clarifications
 - No agreement this is needed

- ## ■ **GP-111208** Discussion on AMR Codec Mode adaptation during Handover procedure
- Concerns about the proposal

Study SIMTC (1/3)

■ Simulation Assumptions

● GERAN#50

- Legacy PS / CS traffic proportions
 - 20/s with 5/s for CS and 15/s for pS
- **FFS**
 - ASR benchmark for legacy traffic: no agreement
 - Prioritization between KPIs and whether additional KPIs are needed

● GERAN#51

- GP-111133
 - Proposal 1 endorsed
 - Proposal 2 endorsed under the assumption that “MTC devices” are configured for low access priority
 - Proposal 3 endorsed
- GP-111134
 - Proposal 1 endorsed in principle (editorials vs TR to be sorted out)
 - Proposal 2 endorsed
 - Proposal 3 endorsed
 - Proposal 4: endorsed with min ASR 95% for legacy PS

Study SIMTC (2/3)

■ RACH

- **GP-111066** further evaluation of Ericsson and Huawei proposals
 - Ericsson proposal modified to randomize the first access
 - **GP-111067**: pCR 43.868 noted
- **GP-111096** further evaluation of ZTE+Huawei, Ericsson and Huawei proposals
- Agreement that Rel-10 mechanisms are to be used for further evaluation (LAP)
- Convergence is encouraged among the different proposals for GERAN#52
- **GP-111135** incorporates battery aspects in the RACH evaluations. Battery consumption metrics need to be defined
- **GP-111237** Performance Evaluation for Hybrid Packet Channel
 - Further investigations needed

■ **GP-111065** proposal for using a higher coding scheme than CS-1 on CCCH

- Some concerns raised (backwards compatibility with legacy MS, repetition of signaling on CCCH, impact due to RACH power reduction) requiring further investigations

Study SIMTC (3/3)

- **GP-111214** updated proposal to multiplex RLC data blocks from multiple mobiles in the same radio block period (Downlink)
 - Some concerns raised on Link Adaptation
 - Further work needed'
- **GP-111260** A low latency approach for signalling presence of access control mechanisms in relation to NIMTC and potentially GEMDA
 - Concerns on the need for proposal right now – no obvious use case identified as of yet
 - **GP-111261** draft CR 44.018 noted

Study on GERANEMDA (1/2)

- **GP-111285** Workplan: completion by GERAN#55 [Plenary]
- **GP-111346** TR: noted
 - Update expected for telco#1 (see next slide)
- **GP-111086** proposed metrics
 - Need for metrics acknowledged to evaluate efficiency of PDCH and CCCH
 - Fine-tuning needed
- **GP-111085:** IM traffic characteristics
- **GP-111142:** proposed use case
 - Recommendation to use SA1 use cases as a baseline
 - Also take into account SA1 requirements as they arrive
 - No prioritization of use cases at this stage
 - Identify GERAN Aspects pertaining to these use cases
 - Identify Common denominators across these as far as possible
 - Common model should be derived and common simulation assumptions identified as far as possible
- **GP-111087** proposal for service identification in GERAN
 - Specification work under the responsibility of SA2 and CT4 would be required
 - Benefits are expected if this were possible

Study on GERANEMDA (2/2)

- **GP-111262** Does short access merit revisiting for GEMDA?
 - “Maybe, maybe not”
 - Redefining short access may bring backwards compatibility issues.
 - Further investigations needed.
- Telco#1 on Oct 12th, 2011
 - To be invited by the Rapporteur
 - One of the A.I: performance objectives

Study on VAMOS Enhancements

- **GP-111433** Working Assumptions endorsed
 - Logical interface between BSSs for C-plane exchange to be investigated
- **GP-111128** Draft TR: endorsed
- **GP-111129** Workplan



Study on SPEED

- **GP-111400** TR 45.860 v0.7.1 endorsed

Outgoing LSs

Outgoing LSs

- **GP-111439** LS to RAN2, CT1, SA2 on PLMN and CSG whitelist handling in H(e)NB
- **GP-111440** LS to SA, SA1, SA2, CT1 on introduction of Full MOCN
- **GP-111303** LS to CT4, SA3 Inter-MSC handover failures and lists of permitted algorithms in the context of A5/4
- **GP-111304** LS to SA3, RAN2 on the length of security information in Public Warning System (PWS)
- **GP-111305** LS to RAN3 on enabling detection of unnecessary inter RAT handover for A/Gb mode BSS
- **GP-111349** LS to CT1 on partial ciphering on SACCH

Next Meetings

Next Meetings

- GERAN2#52 22-24 Nov 2011 Bratislava, Slovakia
- GERAN2#53 28 Feb – 1 Mar 2012 Hamburg, Germany
- GERAN2#54 15 – 17 May 2012 TBD



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