3GPP TSG GERAN2#44

Sophia Antipolis, 17-19 November 2009
Chairman's Summary

NOKIA

Guillaume SEBIRE (Chairman)

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Incoming Contributions

Total: 106 (140)

Total (End): 259

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

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Pre-Release 8 (1/2)

- **Misc. (Rel-6+)**
  - **GP-092082, GP-092083, GP-092084, GP-092085** CRs 44.060 agreed: CSN1 correction to Packet Cell Change Failure message
  - **GP-092086, GP-092087** CRs 44.060 agreed: CSN1 correction to Packet Cell Change Order message
  - **GP-092426** Draft CR 24.008 endorsed: Removal of T-GSM 900 capability
    - LS to CT1 in **GP-092458**
- **PS Handover (Rel-6+)**
  - Introduction of PS Handover Complete Ack (ref. INTER RAT HANDOVER INFO and START PS mismatch issue)
    - **GP-091875, GP-092222** CR 43.129 endorsed: introduction of PS Handover Complete Acknowledge message
    - LS to SA2 in **GP-092472**
- **LCS (Rel-7+)**
  - **GP-092235, GP-092236, GP-092237** CR 44.031 agreed: removal of inconsistencies regarding Extended Reference Number and Positioning Capability Transfer Procedure

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Pre-Release 8 (2/2)

- **EGPRS2 (Rel-7+)**
  - **GP-092217, GP-092223, GP-092224** CRs 44.018 agreed: CSN1 corrections to Uplink / Downlink EGPRS Level IEs
  - **GP-092459, GP-092460** CR 44.014 to **plenary**: addition of EGPRS2 loopback modes to allow test cases of EGPRS2 RF performance
- **DCDL (Rel-7+)**
  - **GP-092395, GP-092396, GP-092397** CR 44.060 agreed: misc. CSN1 corrections
- **LATRED (Rel-7+)**
  - **GP-092434, GP-092384, GP-092385** CRs 44.060 agreed: Misc. CSN1 corrections for RTTI

  - **GP-092178** on "PAN" confusion identifies that event-based FANR is not working in its current definition i.e. the use of EBFANR degrades RLC performance. Misc. functional changes are proposed that affect with a variable degree of severity terminals and terminal requirements
    - Solution #1 and part of solution #2 to minimise impact while addressing performance issues is agreed.
    - **GP-092435, GP-092428, GP-092429** CR 44.060 agreed
    - **GP-092177** CR 44.060 rejected

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Rel-8 – GERAN/E-UTRAN Interworking (1/3)

- **Misc corrections**
  - **3G/EUTRAN CSG information in Measurement Information**
    - GERAN2#43bis: It was clarified that reporting of E-UTRAN cells in dedicated mode can be used e.g. for redirection. PCI split can in turn be used to prevent reporting of CSG cells on shared frequencies. Thus CSG description may need to be included in Measurement Information message
    - Conclusion in GERAN2#44 that EUTRAN CSG information is needed in Measurement Information
    - **GP-092430, GP-092431** CR 44.018 agreed
    - **GP-092242, GP-092243** CR 44.060 agreed
  - **Applicability of XXX_REPORTING_OFFSET for E-UTRAN**
    - CRs in GERAN2 will be drafted for GERAN2#44bis, upon GERAN1 agreement
    - **GP-091927, GP-091928** CR 44.018 postponed
    - **GP-091929, GP-091930** CR 44.060 postponed
  - **GP-092464, GP-092229** CR 44.018 agreed to define the response sent by the MS in the Channel Request message when paged during CS Fallback
    - **GP-092046, GP-092047** CR 44.018 rejected

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Rel-8 – GERAN/E-UTRAN Interworking (2/3)

- **Misc. Corrections (cont'd)**
  - **PMO modification of NCL**
    - Opening plenary agreement that modification of EUTRAN NCL by PMO is required (addition of frequencies) while leaving the decision of the Release to GERAN2. GERAN2 agreed to keep the functionality in Rel-8
    - **GP-092078, GP-092079** CR 44.060 rejected: Removal of possibility of adding frequencies to the E-UTRAN Neighbour Cell list using the PACKET MEASUREMENT ORDER message
    - **GP-092452, GP-092453** CR 44.060 agreed: Clarification on modifying E-UTRAN NCL by PMO
- **Introduction of PS Handover Complete Ack** (ref. INTER RAT HANDOVER INFO and START PS mismatch issue)
  - **GP-091873** CR 43.129 endorsed
  - LS to SA2 in **GP-092472**

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Rel-8 – GERAN/E-UTRAN Interworking (3/3)

- **Individual priorities**
  - **Handling**: A number of unclear points are discussed in **GP-092123**
    - **No agreement** to change current behaviour of keeping individual priorities when PLMN selection triggers a change of PLMN to an ePLMN
    - **Agreement** not to change current specification of deleting individual priorities upon entering PS packet transfer mode nor CS dedicated mode
    - **Agreement** to modify individual priority signalling to allow deleting individual priorities
    - **GP-092446, GP-092447** CR 44.018 agreed: signaling to delete individual priorities
    - **GP-092448, GP-092449** CR 44.060 agreed: signaling to delete individual priorities
  - **Compression/coding optimization**
    - **GERAN2#43bis:** Whether coding optimization is used or not, a single mechanism must be used in Rel-8 and further Releases
    - **GERAN2#44:** Acknowledgement of the support voiced by operators at GERAN2#43bis and some companies however the need for such mechanisms continue to be questioned by a number of companies
    - ➲ Compression/coding optimization of individual priorities was **rejected**
    - As a consequence when sent in a CHANNEL RELEASE message, segmentation may become necessary (This could potentially require extended testing of LAPD segmentation for new (GELTE) terminals)
    - **GP-092171, GP-092172, GP-092173, GP-092174** CRs 44.018, 44.060 rejected
    - **GP-092167, GP-092168, GP-092169, GP-092170** CRs 44.018, 44.060 rejected

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TEI-8 (1/2)

- **Misc.**
  - **GP-091935, GP-091936,** CRs 44.018 agreed: misc CSN1 corrections
  - **GP-092424, GP-092425** CR 44.060 postponed on usage of “compressed” coding of radio access capabilities for MS RAC 2 IE in Additional MS Radio Access Capabilities message
    - While 24.008 prevents this coding in MS RAC IE, it does not state anything regarding MS RAC 2 IE in case a full capability can first fit in Packet Resource Request message
    - GERAN2#43bis: More time to investigate the proposal which could potentially impact legacy equipment (mechanism introduced in R99)
    - GERAN2#44: More time requested again

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TEI-8 (2/2)

- **Capability signaling for priority-based reselection**
  - Issue discussed at GERAN2#43bis
  - Common view that priority-based reselection when supported is for both directions i.e. (GERAN⇔UTRAN)
  - Further investigation provided in **GP-092124**. It is understood the BSS should not be required to read UE RAC (ASN1). However no decision whether the capability should be in Network Capability or in MS RAC and CM3. It is understood individual priorities are meant to allow subscriber-specific behavior and are expected not to be set by the BSS on its own
    - Draft CRs 24.008 endorsed in **GP-092386, GP-092387**
    - LS to CT1, SA2 in **GP-092462**
- **Assignment of priorities to 3G frequencies on their own** (i.e. without cell info)
  - **GERAN2#43bis:** Agreement that it should be possible to assign priorities to 3G frequencies on their own, and that it should be done without impacting the 3G NCL indexing
  - Further investigation in **GP-092094, GP-092207** yet not agreement reached on the coding – companies invited to find a common view for GERAN2#44bis
  - **GP-092095, GP-092096, GP-02097, GP-092098** CRs 44.018, 44.060 postponed
    - Companies invited to resolve this by GERAN2#44bis
  - Clarification on how the 3G Cell Reselection List is constructed and modified
    - **GP-092454, GP-092455, GP-092456, GP-092457** CRs 44.018, 44.060 agreed

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Rel-8 – AoIP

- None

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Rel-9 – Local Call Local Switch

- GERAN#41
  - Proposal aiming at keeping the user plane (voice) traffic between the two parties of a local call (i.e. within the same BSS) in the BSS in order to save Abis and/or A interface resources
  - A common understanding is that local switch decision lies in the BSS and may be assisted by the MSC
- **GP-092260** Way forward on LCLS endorsed by GERAN2 – exception sheet and further handling in other groups
- **GP-092392** CR 48.008 postponed
- **GP-092381** CR 48.103 postponed
  - Content endorsed and may be revisited in future meetings
- **GP-092197** on procedures for LCLS noted
- Further feedback sent to CT, SA4 cc SA3-LI, CT1, CT3 in LS **GP-092471**

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Rel-9 – TEI9 (1/5)

- **P-Channels**
  - **GP-092238, GP-092239** CRs 44.018, 44.060 agreed: removal of mandatory support of P-channels from terminals
  - GERAN2 work completed
- **Misc.**
  - **MTD Reporting**
    - The ambiguous definition of MTD makes the current reporting of MTD unusable – different ways of reporting have been seen in the field
    - **GP-091975** CR 44.018 agreed following GERAN1 endorsement: introduction of MTD reporting on hyperframe level to overcome ambiguity surrounding legacy MTD reporting whilst preserving backwards compatibility
      - Agreement conditional to the agreement of corresponding GERAN1 CRs
  - **GP-092248** CR 44.318 agreed: correction to Handover Reporting Control IE
  - **GP-091942** CR 44.031 agreed: ASN.1 correction

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Rel-9 – TEI9 (2/5)

- **SON**
  - Discussion on incoming LS from RAN3 (GP-091890) whether exchanging cell load information between RATs for load balancing could be done either through piggy-backing in handover signalling, or by means of existing (GERAN) RIM procedures. Besides impact on GERAN networks, an aspect to take into account is the timing aspects of the information to exchange.
  - LS to RAN3, RAN cc CT4, SA2 in **GP-092465**
  - **GP-092391** CR 48.018 postponed: on Exchanging cell load information between RATs by RIM procedure was presented for information, following LS from RAN3 in GP-091890

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Rel-9 – TEI9 (3/5)

- **LCS**
  - **GP-091872** CR 44.031 agreed: clarifications to ephemeris extension
- **Mix of TTI for a given TBF**
  - **GP-092340** addressing issues on MTTI assignments
  - While potential benefits of MTTI in BTTI USF mode have been acknowledged, concerns were reiterated on the achievable gains of the proposal in uplink vs. existing mechanisms
  - Companies invited to review the proposal offline for GERAN2#44bis
  - **GP-092249, GP-092250** CRs 44.060 postponed
  - **GP-092182** Draft CR 24.008 noted
- **DTX for conversational services** (Supporting UL PAN transmission in DTX)
  - **GP-092161** Analysis on channel utilisation for PB and FFCH
  - Concerns raised on the usefulness of the proposals

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Rel-9 – TEI9 (4/5)

- **Enhanced Multiplexing for Single RLC entity**
  - Further discussion in **GP-092119**, **GP-092120** and **GP-092195**
  - Some discrepancies of understanding remain on how EMSR works or should work which need to be alleviated
  - Gains are still unclear and should be quantified to better justify the proposal
  - Companies invited to review the proposal offline for GERAN2#44bis
  - No agreement
    - **GP-092116, GP-092117** CR 44.060, 44.018 postponed
    - **GP-092118** Draft CR 24.008 noted
- **Dynamic Timelsot Reduction**
  - Yet no agreement: a number of alternatives are under discussion
  - Companies invited to review the proposals offline for GERAN2#44bis
  - **GP-092073, GP-092175** CRs 44.060 postponed
  - **GP-092074** Draft CR 24.008 noted

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Rel-9 – TEI9 (5/5)

- **Optimized DRX mode**
  - To avoid entering non-DRX when transiting from packet transfer mode to packet idle mode when delayed TBF release and/or ext UL TBF mode are used as going to packet idle mode is an indication data is “unlikely” to be incoming soon.
  - Some concerns raised on the need and usefulness of the proposal vs existing mechanisms
  - Also a concern was raised that while being proposed to be mandatory the network cannot know the MS is supporting optimized DRX mode thus may impact terminal not supporting the mechanism.
  - Companies invited to review the proposal offline for GERAN2#44bis
  - Decision expected at GERAN2#44bis
  - **GP-092105, GP-092106** CRs 44.060, 44.018 postponed

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Rel-9 – Other

- **GP-091941** CR 44.014 agreed: addition of RESET command for GNSS (Rel-9)
- **GP-092072** Supporting AGPS/RRLP in GAN
  - Not presented
  - NOTE: originally submitted at GERAN2#48bis
  - Companies invited to check the proposal offline

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Rel-9 – H(e)NB Enhancements (1/2)

- **Working Assumptions** and Open issues in **GP-092382**
  - G2#43bis document (**GP-091901**) has been revised in **GP-092382** and endorsed
    - Only minor changes made to item #6
  - Companies invited to contribute on the open issues for GERAN2#44bis so further progress can be achieved
- **GP-092099** on MS notification prior to MIB/SIB reading
  - Proposed mechanism aims at minimizing the impact on ongoing service
  - No support for the proposal
  - Concerns raised on the proposal
    - Usefulness vs. existing possibilities to skip reception of data blocks for the purpose of Ncell monitoring
    - Reliability as it does not involve a MS/BSS handshake.
- **GP-092088, GP-092089** CR 44.018, 44.060 postponed on introduction of CSG connected mode mobility

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Rel-9 – H(e)NB Enhancements (2/2)

- **Measurement reporting for CSG Cells**
  - Agreement needed on the parameters to be reported and how to report them
    - **GP-092022** discussion on parameters for measurement reporting
    - Further work needed
    - **GP-092023** Draft CR 44.060 noted
    - **GP-092090** CR 44.018 postponed
    - **GP-092091** CR 44.060 postponed

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Rel-9 – Hybrid Location

- **GP-091787** CR 43.059 endorsed
- **GP-092433** CR 48.071 agreed

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Rel-9 – BSC/CBC Interface (1/2)

- **GERAN2#43bis: G2-090176** Open issues on "Cell Broadcast Service Protocol" – **agreement** these issues need to be solved
  - A warning message can never be sent without an accompanying CBS message in the WRITE-REPLACE message – this may cause additional delay in transmitting a warning message as it is subject to availability of a CBS message
  - Identification of the warning message need to be clarified to avoid conflicts with a CBS message potentially part of the same WRITE-REPLACE message
  - Termination of the broadcast of a warning message if allowed to be sent alone
  - WRITE-REPLACE-COMPLETE/-FAILURE messages do not currently cover replacement of a CBS or warning message
  - Supervision of the CBC/BSC interface to allow asap detection of potential faults potentially occurring on the interface
    - And whether this needs to be specified or not
  - ➲ Solutions to these issues will be investigated for GERAN#44
  - ➲ Companies are invited to check this contribution as a decision is expected at GERAN#44

GERAN2#44: Among the items above, only the supervision of the BSC/CBC interface is still open

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Rel-9 – BSC/CBC Interface (2/2)

- **GP-092109** endorsed: ETWS Primary Notification broadcast period
  - Proposal endorsed, for inclusion of a BSS specific timer to control the period during which an emergency message is broadcast (instead of having to rely on an explicit “stop” indication)
- **GP-092110** Draft CR 48:049 endorsed: Update of “common” clauses and Write-Replace procedure
- **GP-092111** Draft CR 48:049 endorsed: Update of Kill procedure
- **GP-092112** Draft CR 48:049 endorsed: Update of Load Status Enquiry and Message Status Query procedures
- **GP-092113** Draft CR 48:049 endorsed: Update of Set DRX procedure
- **GP-092114** Draft CR 48:049 endorsed: Update of Restart and Failure Indication procedures
- **GP-092115** Draft CR 48:049 endorsed: Update of Reset and Error Indication procedures

- **GP-092388** Draft 48.049 incorporating the changes above
  - **GERAN2 recommends v2.0.0 approval in GERAN plenary**

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AOB – Rel-9 Exception sheets

- **GP-092473** – LCLS
  - Work expected to be completed by GERAN#46 – May 2010
- **GP-092474** – EHNB-GERAN
  - Work expected to be completed by GERAN#46 – May 2010
- **GP-092475** – CEBRO
  - Work expected to be completed by GERAN#45 – March 2010

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Outgoing Liaison Statements

- **GP-092471** LS to CT, CT4 cc SA3-LI, CT1, CT3 on the Further Progress of Local Call Local Switch Feasibility Study
- **GP-092465** LS to RAN3, RAN cc CT4, SA2 on Transfer of IRAT Load Balancing Information via Core Network
- **GP-092462** LS to CT1, SA2 on indication of support of priority-based cell reselection from GERAN to UTRAN
- **GP-092458** LS to CT1 on Removal of T-GSM 900 support
- **GP-092472** LS to SA2 on Enhancements to PS Handover procedures

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Future meetings

• **GERAN2#44bis**	**27 – 29 January 2010**	**Bratislava, Slovakia**
• GERAN2#45	2 – 4 March 2010	Berlin
• *GERAN2#45bis*	*21 – 23 April 2010*	*TBD, Europe*
• GERAN2#46	18 – 20 May 2010	Korea, TBC

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