3GPP TSG GERAN2#37bis

Sophia Antipolis, France, 31 March – 03 April, 2008
Chairman's summary

Chairman: Guillaume SÉBIRE (Nokia-Devices/Helsinki)
Secretary: Gert THOMASEN (MCC)

Same as G2-080233: few editorials corrected

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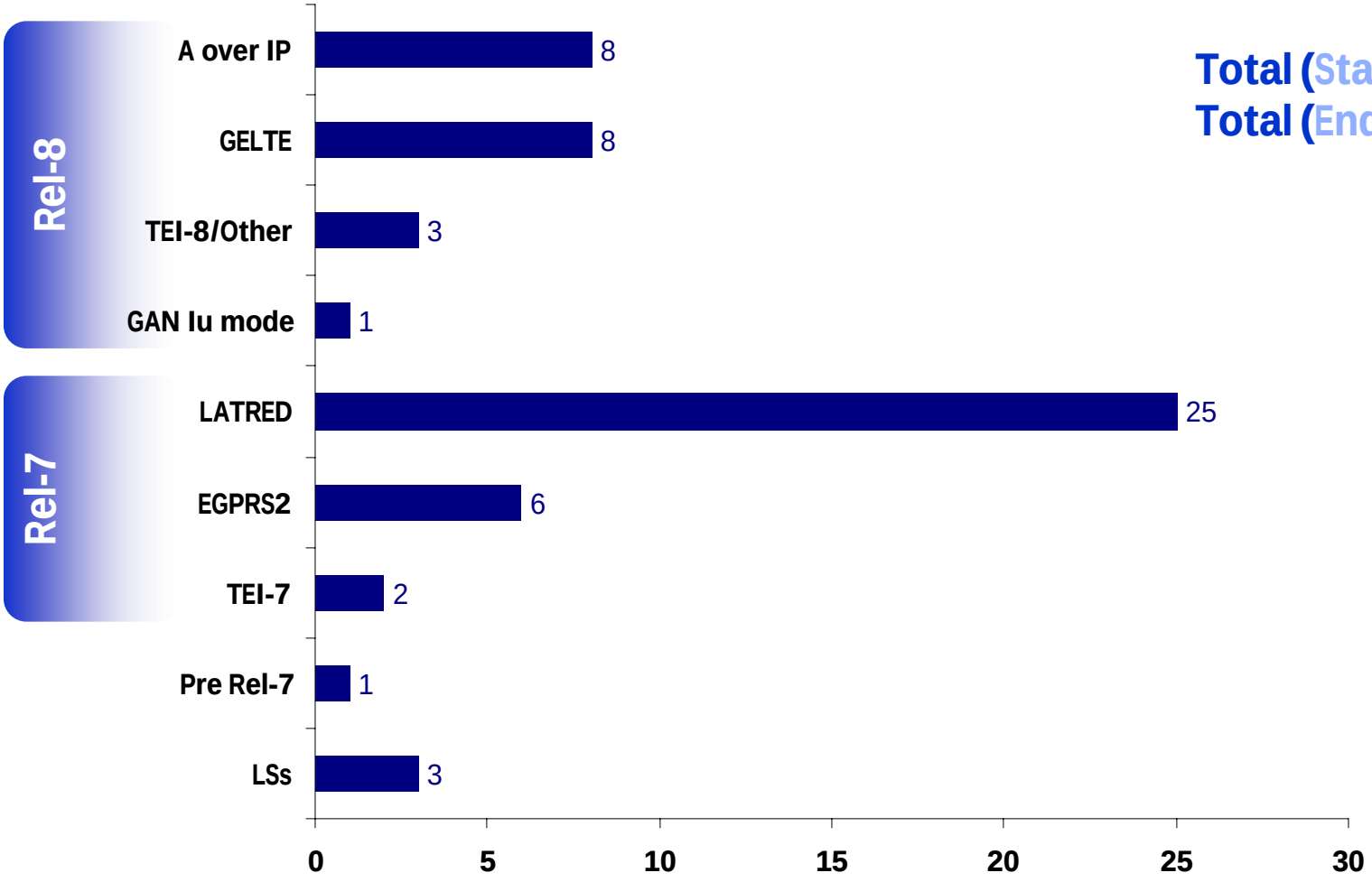
Incoming Contributions per Agenda Item



Total (Start): 57
Total (End): 116

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	Monday	Tuesday	Wednesday	Thursday	Friday
8am					
9am	LSs Pre Rel-7 REDHOT - HUGE	LATRED	Revisions		
10am					
11am	Coffee	Coffee	Coffee		
12pm	TEI-7 GAN Iu, TEI-8, Other	LATRED	Revisions		
1pm	Lunch	Lunch	Lunch		
2pm	GAN Iu	LATRED	Revisions		
3pm	GELTE				
4pm	Coffee	Coffee			
5pm	GELTE	AoIP			
6pm					
7pm					
8pm					

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Pre Release 7 Corrections

- **G2-080183** Draft CR 43.318: endorsed: MS deregistration after handover from GAN to GERAN/UTRAN (Rel-6+)
  - Deregister message to be sent when the MS is leaving or is about to leave GAN coverage and not necessarily after the GA-CSR connection release (A/Gb mode: Rel-6+) / GA-RRC connection release (Iu mode: Rel-8)
  - **G2-080214, G2-080215** CR 44.318 conditionally approved to the approval of stage 2 in GERAN#38 *(A/Gb mode)*
  - **G2-080216** CR 44.318 conditionally approved to the approval of stage 2 in GERAN#38 *(A/Gb mode and Iu mode)*
  - Test specification will be updated in GERAN#38

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Rel-7 – DTM Handover

- **None**

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Rel-7 – VGCS Enhancements

- **None**

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Rel-7 – Dual Carrier Downlink

- **None**

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Rel-7 – RED HOT / HUGE

- **G2-080179, G2-080187** CR 44.060 rejected: definition of separate header formats (FANR/non-FANR) for EGPRS2 coding schemes (DAS/DBS/UAS/UBS)
  - GERAN2 confirms there is a single header format for EGPRS2 coding schemes
  - Clarify the reaction time for EGPRS2 MS, knowing a single header type is used: to be addressed in GERAN#38
- Proposal for EGPRS2 indication at random access by addition of new Training Sequences (TS3 and TS4) to indicate the EGPRS2 level of support of the MS in uplink
  - GERAN2 conclusion there is no need for EGPRS2 support indication at random access
  - CRs 44.060, 44.018 rejected: **G2-080120, G2-080121, G2-080122, G2-080123**
  - Draft CR 45.002 in **G2-080124** noted but will not be resubmitted

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Rel-7 – Latency Enhancements (1/4)

- **Misc. issues in G2-080163:**
  - GERAN2 endorsement to keep "FANR" RLC/MAC Header even if there is no concurrent TBF in the opposite direction. CR expected next meeting.
    - "ordering", "enabling", "use" terminology to be clarified: "Ordering" to be replaced by "Enabling". Specs to be clarified.
  - GERAN2 agreement that abnormal cases must be defined to address the case of a TBF is assigned by the network violating the rule "all concurrent TBFs assigned to an MS shall use FANR or none"
  - GERAN2 agreement to consistently encode RRBP values pointing to the same configurations.
  - As currently specified an MS supporting LATRED shall support both FANR and RTTI
    - Concern raised that this requirement prevent the usage of multislot classes where FANR could be used but RTTI would not be possible
    - Some configurations may prohibit the use of RTTI e.g. in DTM an MS might not be able to use RTTI due to DTM MSC limitations, while it would be able to use RTTI in packet transfer mode.
    - To be investigated
    - Clarification may be added to 24.008
    - **G2-080170** CR 44.018 postponed
- **G2-080166** CR 44.060 approved: correcting the wrong implementation of a previous CR

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Rel-7 – Latency Enhancements (2/4)

- **One Phase Access**
  - Last open issue discussed on the indication of supported MS timeslot configurations (set of multislot classes): G2-080125, G2-080196
  - **Working assumption** based on G2-080196 and that BTTI, RTTI configurations are treated with equal priority: will be investigated until GERAN#38 when conclusion is expected
  - **G2-080199, G2-080200**: CRs 44.060 postponed
  - **G2-080203, G2-080204**: CRs 44.018 postponed

- **G2-080126 – Clarification to TBF Assignment for LATRED**
  - BTTI and RTTI TBFs for one MS addressed in a message instance
    - Detailed impact on messages to be investigated before a decision is made
  - BTTI and RTTI uplink TBFs assigned on one carrier to one MS
    - Either BTTI USF mode or RTTI USF mode can be used as per current spec. A proposal to introduce a restriction to use BTTI USF mode only was objected to.
  - BTTI and RTTI uplink TBFs assigned on two carriers to a DCDL capable MS
    - Either BTTI USF mode or RTTI USF mode can be used for RTTI TBFs as per current spec. A proposal to introduce a restriction to use BTTI USF mode only was objected to.
  - RTTI TBFs on one carrier and RTTI TBFs on other carrier using different USF mode
    - Allowed as per current specification (however signaling not supporting that currently): impact on signalling to be investigated

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Rel-7 – Latency Enhancements (3/4)

- **Downlink TBF assignment at uplink TBF assignment on CCCH**
  - Proposal in **G2-080188** relies on One Phase Access with LATRED support indication however it is a new feature while Rel-7 is frozen: will be discussed within the scope of Rel-8
    - Will be investigated further
    - **G2-080189** CR 44.060 postponed

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Rel-7 – Latency Enhancements (2/4)

- **(TB)FANR**
  - **Misc corrections**
    - **G2-080222, G2-080223** CR 44.060 approved: Clarifying FANR behavior when a concurrent TBF in the uplink direction is not assigned
      - FANR remains enabled when there is no concurrent TBF in the other direction that could be used to insert PAN
      - Network may assign a downlink TBF using FANR independent of whether a concurrent uplink TBF is assigned or not
      - Keep using FANR RLC/MAC header
      - If polled for a PAN, and no data to send, send a EPDAN/EPDAN2
  - **Time-based FANR:**
    - *Note that CR 44.060 0955 rev 2 was implemented though postponed at GERAN#37*
    - **G2-080218, G2-080219** CRs 44.060 postponed: correct the implementation of a postponed CR, allow futureproofing by means of TFI=0 requirement in 45.003 while Hufmann coding and EGPRS2 support are already covered
    - Alternative proposals to be submitted to GERAN#38 with no-Hufmann coding and accounting for EGPRS2 support
    - Decision to be done in GERAN#38
  - **PAN Robustness**
    - Issue raised at GERAN#36 in GP-071759 addressed the detection of and recovery from undetected PAN errors. Two proposals seen in G2#36bis – fix of the RLC protocol and avoid any L1 changes
    - GERAN2 endorsement for RLC acknowledged mode based on G2-080129, G2-080152:
      - Advance V(A) solely based on PUAN/PDAN
      - Introduce new state in V(B): Tentative Ack to identify blocks that have been ack'ed by a PAN and that are thus subject to preemptive retransmissions
      - Ignore PAN inconsistent with current V(B)
      - **G2-080220, G2-080221** CRs 44.060 approved

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Rel-7 – Latency Enhancements (3/3)

- **RTTI**
  - **G2-080205, G2-080217** CR 44.060 approved: definition of bit-ordering for MCS-0
  - **G2-080160, G2-080161** CR 44.060 approved: correction of RTTI assignment

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Rel-7 – PS Conversational

- **None**

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Rel-7 – PS HO GAN ⇔ GERAN/UTRAN

- **None**

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Rel-7 – A-GNSS

- **None**

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Rel-7 – LCS Enhancements for LBS

- **None**

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Rel-7 – A-GPS Minimum Performance Requirements

- **None**

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Rel-7 – TEI-7

- **VGCS**
  - **G2-080190, G2-080224** CR 44.018 approved: clarification of the indication of the network support of talker priority
    - Support for short application data (Rel-8) to be addressed in a separate CR

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Rel-8 – GAN Iu mode

- **G2-080225** Draft CR 43.318 endorsed
  - Alignment with 44.318 and Endorsement of previous RAN2 feedback

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Rel-8 – GERAN/E-UTRAN Interworking (1/2)

- **Subscriber Type indication**
  - Incoming LS in GERAN#37 (GP-080077, GP-080283)
  - LS to RAN2, RAN3, SA2 in G2-080228 to get background on subscriber type indication (need, use cases, content) in order to evaluate the impact, if any, to GERAN
- **White list, Black list**
  - Some comparisons of the impact of both approaches provided in G2-080134, G2-080147, G2-080178
  - Conclusions in **G2-080231** (LS to GERAN, GERAN1, RAN2 cc RAN1, RAN4), in particular:
    […] No GERAN2 related specific reason has been seen so far whereby the black list approach cannot be adopted in GERAN as well. Most of the operators in GERAN2 have stated their position in favour of the black list approach. Many manufacturers in GERAN2 have expressed their position in favour of the black list approach. […]
- **Inter-RAT PS Handover**
  - Communication expected with SA2 to reach a common agreement on stage 2 for PS Handover (i.e. content of GERAN(1) TS 43.129 and SA2 TS 23.401) in GERAN#38
  - At minimum in 43.129:
    - References pointing to 23.401
    - GERAN-specific aspects
  - At minimum in 23.401:
    - References pointing to 43.129
    - SA2-specific aspests

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

- **Container handling – G2-080175**
  - Proposal to follow the principle “source adapts to target” .
  - This principle seems to be already reflected in the TS 36.300 and TS 23.401. In addition GERAN has endorsed already the inter RAT principles included in TS 36.300, section 10.2.2.
    - To be reflected in TS 43.129.
  - CR 43.129 expected in GERAN#38
- **Handling of 2G Parameters (LLC/SNDCP XIDs, SAPIs, PFI, List of Set-up PFCs)**
  - G2-080136, G2-080176 addressing the LS seen in GERAN#37 with different proposals
  - Handling of List of Set-up PFCs, XIDs likely not problematic
    - Use NSAPI IEs to identify in the source side which flows continue (as indicated in e.g. Forward Relocation Response)
      - Whether list of set-up PFCs is sent is FFS: [GERAN>EUTRAN direction: from MME back to GERAN; EUTRAN>GERAN direction: FFS: could MME discard the list of set-up PFCs if received?]
    - XIDs: if not included reset to default parameters in the 2G SGSN (EUTRAN>GERAN Handover).
      - 2G SGSN: send XID to MME (GERAN>EUTRAN) for further fwd
      - MME: forward to MME/2G SGSN if available
  - SAPI, PFI handling may be problematic for EUTRAN>GERAN direction while removing those from EPS would be in contradiction with agreed principles for UTRAN>GERAN Handover and would hence impact 2G SGSN, MS
    - Assigned by 3G SGSN in UTRAN>GERAN handover
    - proposed to be assigned by MME (G2-080176) or 2G SGSN (G2-080136)
  - LS to SA2, CT4 in **G2-080232**

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Rel-8 – VGCS Enhancements for VGCS Apps

- None

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U-TDOA Enhancement – Rel-8

- **None**

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Rel-8 – TEI-8

- **GAN**
  - **G2-080193** CR 44.318 postponed: Clarification for Triggering GAN Registration Update by Changing UARFCN
    - More time needed double check the CR
- **G2-080162:** Single TBF enhancement allowing multiplexing of RLC instances with different RLC mode on the same TBF without TBF release/reestablishment
  - Some companies questioned the need for the proposal given MTBF exists
  - Simulations requested

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Rel-8 –A interface over IP

- **G2-080211** Proposed proceeding for AoIP
  - WIDs in other groups must be established in a timely manner, and with completion following the GERAN timeline
  - Parent feature in SA may be needed with timeline according to GERAN timeline: current WID in GERAN could be a Building Block
  - Telco on 30.April morning time (9am CET): focus 48.00x series.
  - To be submitted to GERAN#38

- **G2-080143** Supporting Data and Fax Services for AoIP
  - General support for support of data and fax for AoIP
  - Proposal to be refined for GERAN#38
- **G2-080146** Analysis on Bad Frame Indication flag of TRAU frame
  - Preliminary evaluations show BFI flag might no longer be needed and existing RFC 3551 for GSM HR, FR, EFR would be sufficient. Refinement of evaluations needed to confirm this
  - SA4 need to be involved: recommendation to bring this discussion to SA4 directly
  - Will be further investigated
- **G2-080212** Draft CR 43.903: Corrections to MSC Server – MGW signaling
  - Work in progress
  - Details to be discussed in CT4: will be contributed there
- **G2-080201** CR 43.903: Clarification on RFC profile of GSM HR
  - Noted – not under GERAN2 responsibility
  - Will be resubmitted to GERAN#38
- **G2-080227** CR 48.001 postponed: Introduction of A interface over IP transport
  - Technically endorsed however approval left to the time when a consistent set of CRs is available

- **Initial changes to 48.008**
  - **G2-080137** Draft CR 48.008, New IEs for AoIP
  - **G2-080173** Draft CR to TS48.008: BSSMAP changes for AoIP
  - Work in progress

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Rel-8 – Other

- **G2-080142** ETWS for GSM
  - Provides the rationale for the ETWS requirement for primary notification (4s)
  - Technical inputs needed

  - GERAN#37:
    - Exhaustive requirements are needed so proper evaluation of solutions, limitations can be done
      - Some limitations have been identified with GP-080142 (e.g. Paging capacity, NMO, MS Class…)
    - In particular:
      - Legacy MS:
        Support for legacy MS is not excluded as per regulatory requirements:
        Definition of “legacy MS” is needed: what are the minimum required capabilities to be supported for delivery of ETW information
      - Services:
        Which of the currently specified services are expected to be used for ETWS? (e.g. SMS, CBS, MMS, MBMS, …)

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AOB

- None

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Outgoing LSs

- **G2-080228** to SA2, RAN2, RAN3 cc GERAN, CT1: Reply LS on applicability of "subscriber type" indication for UTRAN & GERAN
- **G2-080231** to GERAN, GERAN1, RAN2 cc RAN1, RAN4 on E-UTRAN Neighbour Cell List information for GERAN
- **G2-080232** to CT4, SA2 on 2G parameters on S3 interface for EPS

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Future meetings

• **GERAN#38**	**13 – 15 May 2008**	**Malaga, Spain**
• GERAN2#38bis	24 – 27 June 2008	Xian, China
• GERAN2#39	26 – 28 August 2008	Florence, Italy
• GERAN2#39bis	30 September – 3 October 2008	Sophia Antipolis, France
• GERAN2#40	17 – 21 November 2008	TBD

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