3GPP TSG GERAN2#34

Shenzhen, P.R.C., 15-17 May, 2007

Chairman's summary

Guillaume SÉBIRE (Nokia-TP/Helsinki)

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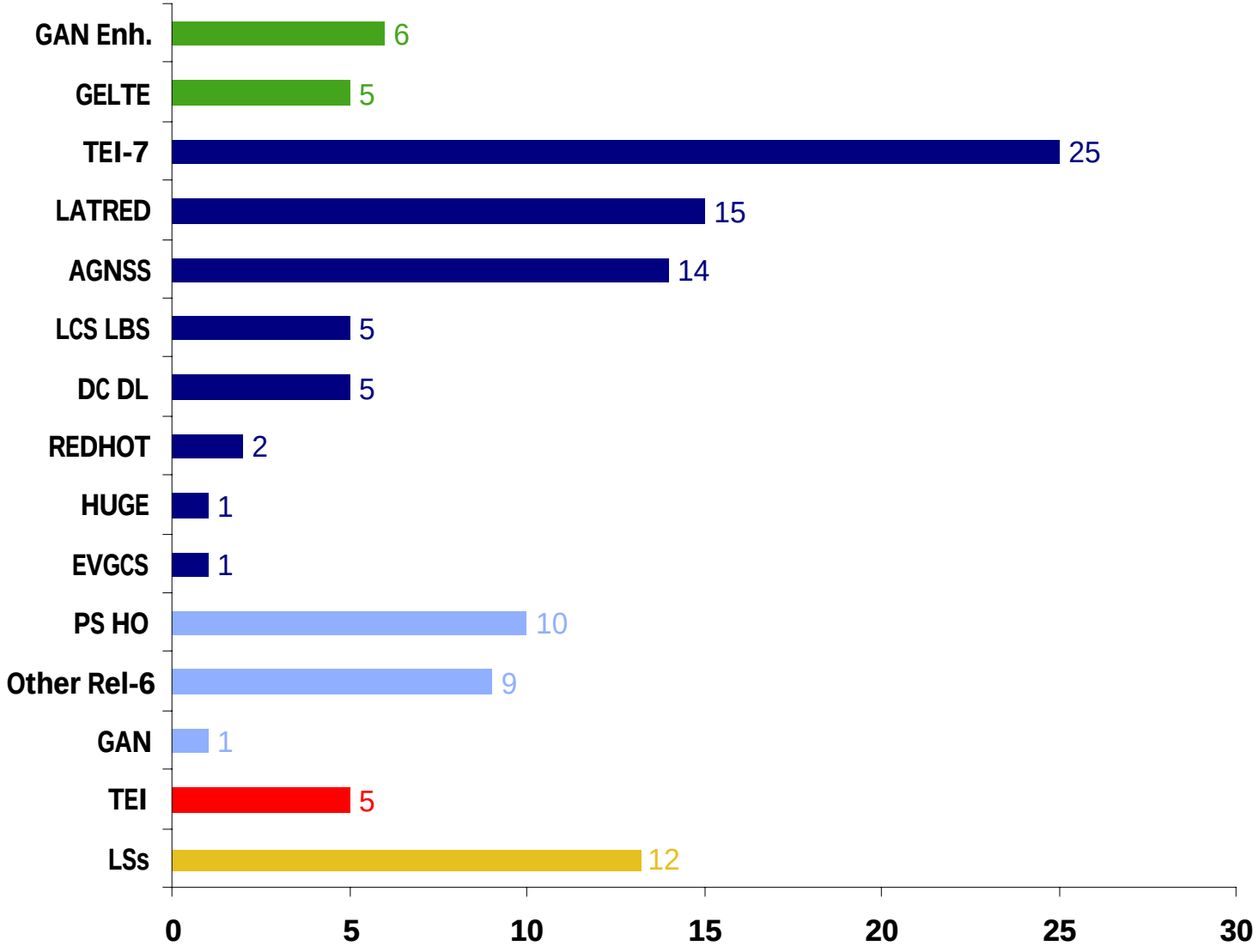
Incoming Contributions per Agenda Item



Total: 116

Total (end): 220

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	Monday	Tuesday	Wednesday	Thursday	Friday
8am			LATRED	GAN Enh.	
9am		LSs/ Pre-Rel-6			
10am		Coffee	Coffee	Coffee	
11am		GAN / PS HO Other Rel-6, EVGCS, DCDL	LATRED	GAN Enh. GELTE	
12pm		**GERAN Chairman Elections** 12.00pm – 1.00pm	Lunch	Lunch	
1pm					
2pm		DCDL	LCS LBS	GELTE	
3pm		REDHOT / HUGE	TEI-7	Revisions	
4pm		Coffee	Coffee	Coffee	
5pm		AGNSS	TEI-7	Revisions	
6pm					
7pm					
8pm		LATRED Evening Session			

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Chairman Election

- Guillaume SEBIRE (Nokia Corporation, ETSI) – 2nd term

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SA3 issue on Algorithm Change [G#31]

- **Pending:** Review if any changes are needed to our specifications due to the introduction of UEA2/UIA2 and the inferred algorithm change at inter RAT Handover (see GP-061526)

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Pre Release 6 Corrections

- **GP-070840 – GP-070844** CRs 04.31, 44.031 approved: Inconsistency between R98 and subsequent releases: GPS Time Assistance Measurements IE is optional in R98 but was **erroneously defined** as mandatory **in R99+**

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Completed Rel-6 Work Items (2/3)

- **Misc.**
  - Some GERAN Iu mode inconsistencies have been identified
  - However given the earlier decision not to update GERAN Iu mode in Rel-7+, GERAN2 recommend to leave any inconsistency for the time being as opposed to fix them
- **GAN**
  - **GP-070966, GP-070967** CR 44.318 approved: Correction to GA-PSR Downlink Flow Control condition
- **PS Handover**
  - **GP-070713, GP-070714** CRs 43.129 endorsed: wrong CR 0033 implementation
  - **GP-070968, GP-070969** CRs 44.060 approved: Access burst format used for PS HO ACCESS in the target cell according to ACC_BURST_TYPE in GPRS Cell Options IE for that cell (i.e. both 8-bit and 11-bit formats can be used)
  - **GP-070757** CR 44.060 approved: In case of PS Handover, the values of power control parameters in the target cell are to be the default one (45.008) if not indicated for the assigned timeslots
  - **GP-071035, GP-070971** CRs 44.060 approved:
    - Compliance of PS Handover with single TBF operation (when MTBF is not supported); PFI optional in PS Handover Radio Resources IE and used only for MTBF
    - Describes PFI handling during PS Handover

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Completed Rel-6 Work Items (3/3)

- **Repeated ACCH Capability**
  - **GP-070972** CR 44.006 approved (Rel-6): If Repeated ACCH is not indicated as being supported, the BSS is only allowed to use Repeated DL FACCH on command frames only
- **Repeated SACCH**
  - **GP-070784, GP-070785** CR 44.006 approved **(conditionally to GERAN1 endorsement)**: Removes an ambiguity as to how to determine a SACCH frame is a repetition candidate: only if SACCH frame was already transmitted it could be a candidate
- **VGCS**
  - **GP-070973 , GP-070974** CR 44.018 postponed: Handling of reconfiguration by a MS in group transmit mode and of operation on the new channel (signalling link establishment).
    Open issue that the reconfiguration message may not be understood by a legacy handset which, as a result, would continue transmitting on the ”old” channel

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Rel-7 – DTM Handover

- **None**

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Rel-7 – VGCS Enhancements

- **GP-071036** CR 48.008 approved: Clarification that with A-interface link sharing, the BSS can send multiple ASSIGNMENT STATUS messages to the MSC so as to send a complete list of cells where the status has changed

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Rel-7 – Dual Carrier Downlink

- **GP-070745** CR 44.060 approved: extended RLC/MAC control message segmentation for DCDL assignment messages
  - GERAN2#33bis concluded that extended RLC/MAC control message segmentation need to be allowed for DCDL assignment messages
- **GP-070748** CR 44.018 approved: Correction of Channel Description 3 IE for DCDL
- **Channel Quality Reporting**
  - GP-070746 evaluates how Ack/Nacks and Channel Quality Reports can fit within EGPRS Packet Downlink Ack/Nack. It also highlights, as expected, that sufficient PACCH capacity (for EGPRS PDAN) is needed for high bitrates. FANR may however mitigate this
  - **GP-070712** CR 43.064 endorsed: MS to include a quality report for both carriers in the EGPRS Packet Downlink Ack/Nack message, if possible. If not possible, MS to report the carrier on which the poll was received.
    GP-070977 CR 44.060 approved conditionally to approval of Stage 2 CR
  - GP-070854 CR 44.060 approved: Frequency parameters to be mandated in Dual Carrier PS Handover Radio Resources IE

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Rel-7 – RED HOT / HUGE

- **RLC Header format for small LLC frames: GP-070657**
  - Proposal for MTBF to allow muxing of TBFs within a given RLC PDU to attempt at e.g. minimizing packetization delay, and for uplink to avoid addition of padding bits when a small LLC frame is to be sent while a large payload is available
  - Concerns raised on benefits/feasibility of the proposal

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Rel-7 – Latency Enhancements (1/3)

- **RTTI**
  - **Working Assumptions – G2-070984: endorsed (as documented in that document)**
    - Concerns raised with WA14, WA15, WA7 which propose:
      - Removal of PDCH split over two carriers
      - 10ms MCS-1 for control blocks
    - Agreement to send control blocks in 10ms irrespective of muxing between RTTI/BTTI
  - **GP-070986 CR 43.064 endorsed**
    - To be addressed: PDCH split across carriers; TTI Configuration mix for a given MS
  - **GP-070987** CR 44.060 approved: RLC/MAC distribution message handling
  - **GP-070988** CR 44.060 approved: Introduction of support of TBF in RTTI mode
  - **GP-070989** CR 44.060 approved: Dynamic Allocation for UL TBF in RTTI mode
  - **GP-070990** CR 44.060 approved: Extended Dynamic Allocation for UL TBF in RTTI mode

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Rel-7 – Latency Enhancements (2/3)

- **FANR**
  - **Working Assumptions – GP-070825: endorsed (as documented in that document)**
    - MS shall monitor a PAN only on the PDCHs on which the USF is monitored
    - Whether the MS shall also monitor a PAN on other PDCHs when downlink TBFs are assigned to this MS open
    - Identification of a TBF within a PAN is done through TFI
      - Identification of the TFI is open: explicit vs. implicit (GP-070602)
  - Proposals to keep the polling alternatives of EGPRS available with FANR as well in GP-070603 and GP-070658
    - A proposed compromise in GP-070992 endorsed by GERAN2
    - Whether some alternative means should be defined is FFS: GP-070603
  - **GP-070993** CR 43.064 endorsed: Introduction of Fast Ack/Nack Reporting
  - **GP-071037** CR 44.060 approved: Introduction of Fast Ack/Nack Reporting

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Rel-7 – Latency Enhancements (3/3)

- **General**
  - **Faster Resumption of Uplink Transmissions – GP-070676**
    - Mechanism whereby the MS in ext.UL TBF mode may trigger resumption of normal USF transmission upon detection of incoming speech activity and prior to the availability of corresponding RLC data blocks
    - While the problem is acknowledged, the proposed solution (MS to send a specific RLC data block) was questioned vs. existing tools in the standard and implementation aspects for BSS scheduling
    - Some support expressed though
    - **GP-070995** CR 44.060 postponed

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GERAN Evolution - General

- SA#37 plenary **approved** the Rel-7 extension requests from TSG GERAN (approved at TSG GERAN#33)
- **August 2007** as the deadline for HUGE, REDHOT and LATRED
- Concept stability is essential to reach this deadline
- Optimizations, enhancements that are **not essential** for a given feature challenge the stability of that feature and risk a postponement to Rel-8
  - Such optimizations, enhancements need to be avoided at this late stage
- **Urgent need** to acknowledge that
  - Without a given enhancement/optimization a feature is not discounted

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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 (1/3)

- **Misc. Corrections**
  - Removal of unnecessary truncation of the code phase truncation for Galileo to 1ms
    - Would otherwise unnecessarily increase the position resolution ambiguity
    - **GP-070983** CR 44.031 approved
- **GANSS Capability Information**
  - Proposal to add an indication within positioning capability parameters that the MS has other positioning capability information to send – limits the impact on CM3. Upon reception of this indication, the remainder of the capabilities would be provided via RRLP
  - NOTE: does not circumvent the CM3 size problem (See TEI-7)
  - **GP-070780** CR 43.059 endorsed
  - **GP-070979** CR 44.031 approved
  - **GP-070981** CR 44.118 approved
  - **GP-070782** Draft CR 24.008 endorsed
  - LS to CT1 in **GP-071043**

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Rel-7 – A-GNSS (2/3)

- **Bit-efficient extended orbit information**
  - **Background:** Galileo and in general GNSS to include the option to extend the satellite orbits beyond that provided by the native format
  - **Observation:** extended orbits require a large amount of signalling (RRLP) in order to convey the necessary information to the MS i.e size of the ephemeris and clock correction for each satellite (and for each constellation supported)

  - Prior agreement to conduct a comparison in terms of performance and complexity
    - Detailed comparison initiated in GP-070778
  - Two proposals
    - Revised proposal submitted in GP-070866:
      - **GP-070982** CR 44.031 postponed. More time needed to investigate this proposal
    - Unchanged proposal (G2-070009) from GERAN2#33bis:
      - **GP-070799** CR 44.031
      - **GP-070800** CR 49.031
    - Decision expected at GERAN2#34bis (on the basis of these two proposals)

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Rel-7 – A-GNSS (3/3)

- **GANSS Carrier Phase Assistance**
  - Plenary: No consensus to introduce this for GANSS
  - Previously identified as a potential item for GANSS however it was left for further analysis in Rel-7 (GP-062472)
  - **GP-070837, GP-070838** CRs 44.031, 49.031 postponed

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Rel-7 – LCS Enhancements for LBS

- **Bit-efficient extended orbit information**
  - See slide 19 – applied here to GPS
  - **GP-070801** CR 44.031 postponed
  - **GP-070814** CR 49.031 postponed
  - Decision expected at GERAN2#34bis

- **GP-070692** CR 44.031 postponed: additional definition of reference frame value
- **GP-070997** CR 48.071 approved: addition of ciphering IE and Kc IE to the RESET message (Rel-7)
- **GP-070839** CR 44.031 approved Clarification for RRLP pseudo-segmentation

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Rel-7 – A-GPS Minimum Performance Requirements

- **None**

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Rel-7 – TEI-7 (1/4)

- **CM3 Extension**
  - **Agreement** to extend the CM3 length from 14 to 34 octets (max fitting in 2 frames) **without** any separate indication from the network to prevent an MS from using this
  - Release independent

  - Requires a timely upgrade of legacy equipments in the field to ensure that an MS entering that network and using the extended CM3 would operate properly

  - GP-070830 Draft CR 24.008 endorsed. LS to CT1 in GP-070999 (Plenary)
  - GP-070831 CR 44.018 approved
  - GP-070832 CR 48.008 approved

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Rel-7 – TEI-7 (2/4)

- **GP-070749** CR 44.060 approved: Alignment of PS Handover Radio Resources IE with Rel-6
- **GP-071000** CR 44.060 approved (conditionally to 45.008 CR approval): Values of power control parameters for PDCHs at TBF establishment/reconfiguration
    - GERAN2 understanding that while in packet transfer mode, power control parameters for any given PDCH remain valid for that PDCH until they are modified or until returning to packet idle mode. When entering packet transfer mode, initial power control parameters for a given PDCH are set to default if not explicilty indicated
- **GP-071021** CR 43.129 endorsed: direct tunnel functionality
    - According to the feedback received from SA2
- **GP-071039** CR 48.018 approved: Support for Gigabit interface
    - Allows a proper dimensioning of the downlink flow control to a BSS to accomodate GERAN Evolution and GAN
- **GP-071051, GP-071052** CRs 45.015 Release independent DARP Implementation Guideline
    - Proposal endorsed
    - GERAN2 Recommendation to start from R99 since it is a release independent feature not relying on any other feature

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Rel-7 – TEI-7 (3/4)

- **Segmented Handover Command / Assignment Command**
  - Revised proposal to be made available in GP-071028 (Plenary)

- **GAN**
  - GP-070681 CR 44.318 approved: correction to UDP/TCP Port Numbers
  - GP-070684 CR 44.318 approved: proposal to use UTF-8 character string encoding for AP Service Name IE and GAN Service Zone IE
  - GP-070685 CR 44.318 approved: timer handling at lower layer failures

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Rel-7 – TEI7 (4/4)

- **VGCS**
  - **GP-071038** CR 44.018 approved: Default values for SMS confidentiality/guaranteed privacy
  - **GP-071024** CR 48.008 approved: Corrections to Cell Identifier description
  - **GP-071040** CR 48.008 approved: Corrections to VGCS/VBS ASSIGNMENT STATUS message
  - **GP-071026** CR 44.018 postponed: Enhancement to cell reselection in group receive mode

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Rel-8 – FS on GAN Enhancements

- **GAN Enhancements**
  - Review of the comparison table for GAN Enhancements in **GP-071030**. GERAN2 recommendation to include it in the TR
  - **GP-070638** Additional description of session management for Enhanced Up solution, to be included in the TR (along with editorial update)
  - **GP-071032** Optimization of LLC and SNDCP for GAN mode: no ciphering/no compression mode. Revised into GP-071032 for inclusion in the TR. Some conclusions also included in the comparison table

  - Decision on the way forward expected at GERAN#34 plenary
  - Updated TR in **GP-071041** (Plenary)

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Rel-8 – GERAN/E-UTRAN Interworking

- **General**
  - A TSG GERAN **Working Document** (maintained by the rapporteur) should be established to capture agreements and open issues in TSG GERAN as to GERAN/LTE interworking in order to monitor the work and guarantee all elements will be in place in the standard
  - A **joint RAN/GERAN meeting** (likely at WG level) would be beneficial to lay out respective requirements/limitations from both groups from Layer 1/2 perspective (e.g. Ncell list, NCell monitoring, corresponding parameters, measurements and applicable scenarios e.g. cell re-selection, PS Handover)
- **Fallback to CS Domain**
  - Proposal in GP-070675:
    - PS HO is used that allocates both PS and CS resources in the target (GERAN) cell
    - Once in the target cell, the MS performs CS call control in parallel with having a VoIP bearer i.e. DTM-like
    - High similarities with scenario 11 even if the DTM radio interface signaling is claimed as not being supported
    - Seamless mobility is achieved
  - Proposal in GP-070808:
    - PS HO to GERAN and once in the target (GERAN) cell, assign CS resources by means of the Packet CS Command [Immediate Assignment Command]
    - Clarification needed as to how interruption requirements are met
- **Redirection at call set-up – GP-070797**
  - Avoids interruption during an ongoing voice call by redirecting the call to GERAN at call set-up, if seamless mobility mechanisms are not supported between EUTRAN and GERAN
  - Not to be used in a systematic way, however such mechanism should be supported by the standard (e.g. like between GERAN and UTRAN)

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Rel-8 – VGCS Enhancements for VGCS Apps

- **None**

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Rel-8 – Other

- **None**

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AOB

- Specs to be updated to Rel-7:
  - 44: 003, 004, 006, 012, 035, 071, 160, 901
  - 48: 002, 004, 014, 031, 051, 052, 054, 056, 058

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Outgoing LSs

- **GP-071042** Reply LS to RAN3 cc RAN2, SA2 on data forwarding for IRAT Handover
- **GP-071043** LS to CT1 on Modification of TS 24.008 to convey RRLP Positioning Indication
- **GP-070999** LS to CT1 on CM3 extension PLENARY

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Future meetings

• **GERAN2#34bis**	**25 – 29 Jun 2007**	**Póvoa de Varzim, Portugal**
• GERAN2 #35	27 – 31 August 2007	Dublin, Ireland
• GERAN2#35bis	08 – 12 Oct 2007	Sophia Antipolis, France
• GERAN2 #36	12 – 16 November 2007	Vancouver, Canada

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