3GPP TSG GERAN2#33bis
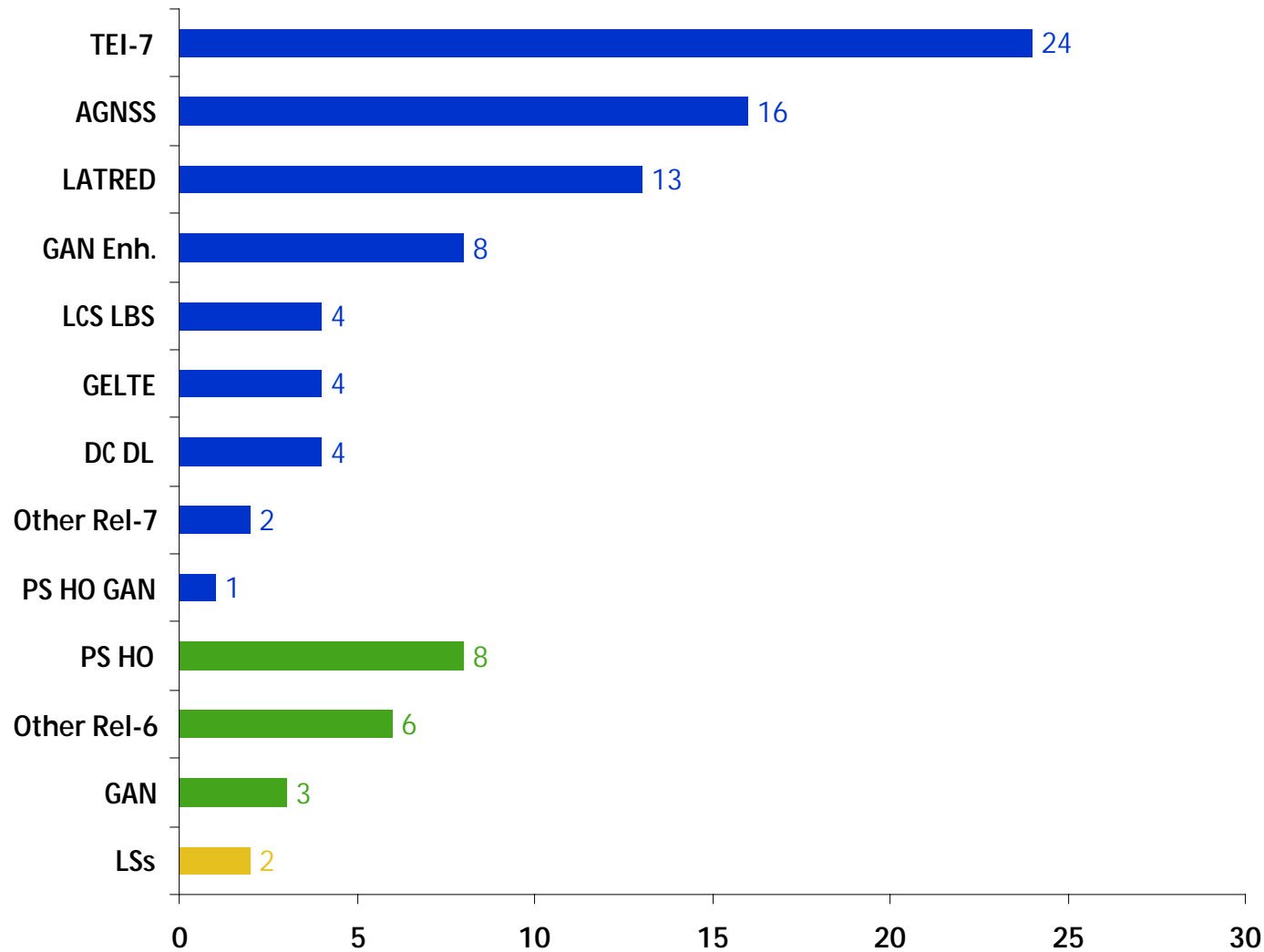
Montreal, Canada, 26-30 March, 2007

Chairman's summary
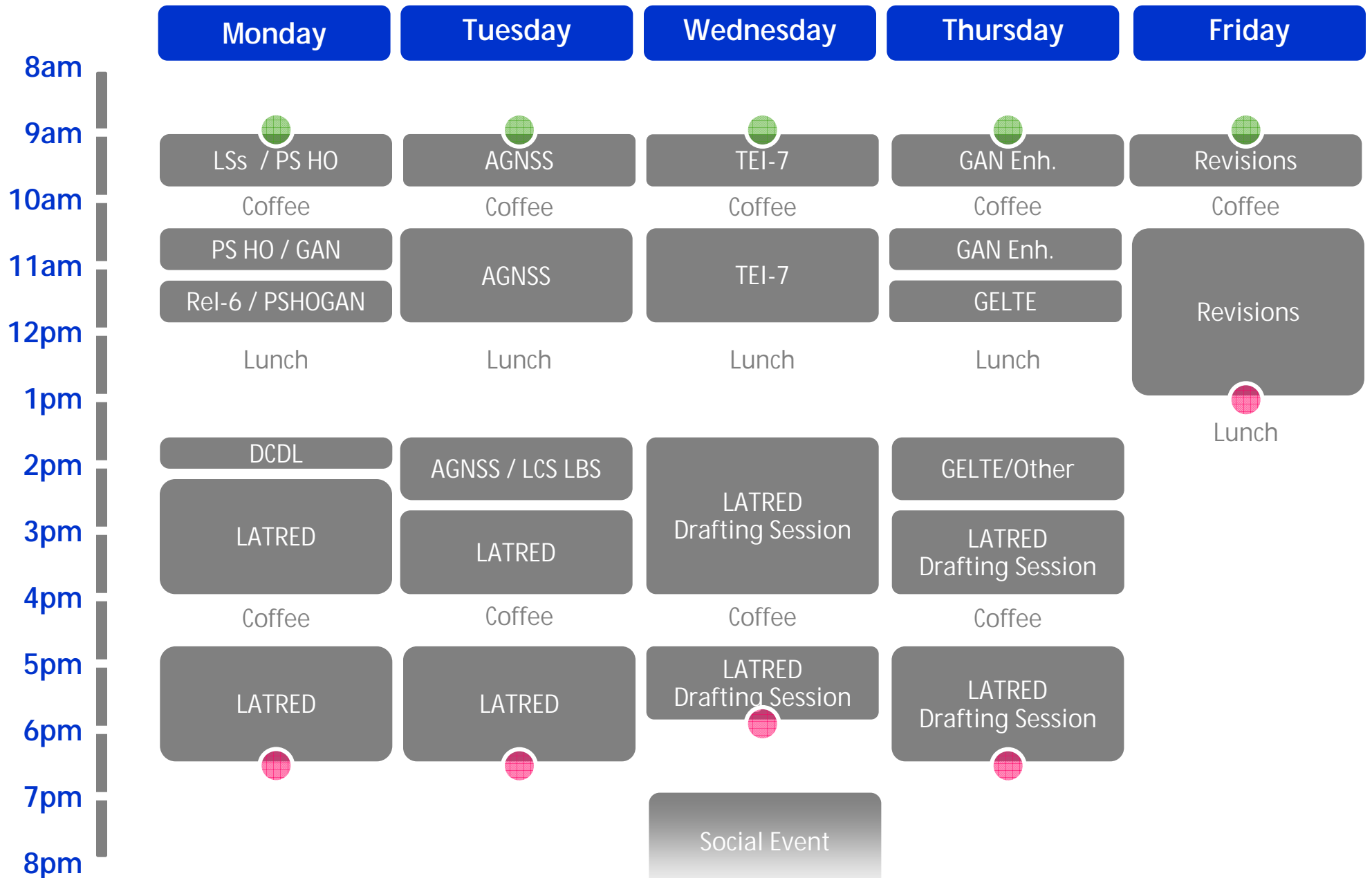
Guillaume SÉBIRE (Nokia-TP/Helsinki)

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Incoming Contributions per Agenda Item

Total: 95

Total (end): 163

	Monday	Tuesday	Wednesday	Thursday	Friday
8am					
9am	LSs / PS HO	AGNSS	TEI-7	GAN Enh.	Revisions
10am	Coffee	Coffee	Coffee	Coffee	Coffee
11am	PS HO / GAN	AGNSS	TEI-7	GAN Enh.	Revisions
12pm	Rel-6 / PSHOGAN			GELTE	
	Lunch	Lunch	Lunch	Lunch	
1pm					Lunch
2pm	DCDL	AGNSS / LCS LBS	LATRED Drafting Session	GELTE/Other	
3pm	LATRED	LATRED		LATRED Drafting Session	
4pm	Coffee	Coffee	Coffee	Coffee	
5pm	LATRED	LATRED	LATRED Drafting Session	LATRED Drafting Session	
6pm					
7pm			Social Event		
8pm					

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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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Completed Rel-6 Work Items (1/3)

- **GAN**
    - G2-070098, G2-070099 CRs 44.318 approved
        - RTP port number 2n
        - RTCP port number: 2n+1
    - G2-070100, G2-070101 CRs 44.318 approved
        - Correction to channel mode modify procedure

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Completed Rel-6 Work Items (2/3)

- **PS Handover**
  - G2-070076, G2-070077 CRs 48.018 approved: Removal of potential ambiguity for conditions of PS HO Reject
  - G2-070144, G2-070145 CRs 48.018 approved : Handling of predefined PFIs and Delete BSS PFC procedures
    - Predefined PFIs not to be included
    - Delete BSS PFC procedure for *all* PFCs active in the source cell upon successful PS HO
  - GP-070140, GP-070141 CRs 48.018 approved: Correction to SBSS to TBSS Transparent Container IE
  - G2-070146, G2-070147 CRs 48.018 approved: Correction of Global TFI IE (6 bits instead of 5bits, according to 44.060 definition)
  - GP-070135, GP-070136 CRs 44.060 postponed: 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
  - G2-070050, G2-070051 CRs 44.060 approved: Correction to Normal Cell Indication (NCI) field size in PS Handover Radio Resources IE

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Completed Rel-6 Work Items (3/3)

- **MBMS**
  - G2-070031, G2-070032 CRs 44.060 approved: description of notification on PACCH when in broadcast-multicast receive mode (packet idle mode)

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Rel-7 – DTM Handover

- None

Rel-7 – VGCS Enhancements

- None

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Rel-7 – Dual Carrier Downlink

- **Evaluation of the size of DCDL assignment messages – G2-070025**
  - Extended RLC/MAC control message segmentation though not needed in the evaluated scenarios will have to be allowed for these messages – currently allowed only for PS HO Command and DTM HO Command
- G2-070148 CR 44.060 approved: misc. CSN.1 corrections to assignment messages
- **Channel quality reporting**
  - G2-070053 Draft CR 43.064 noted
  - G2-070149 CR 44.060 *conditionally* approved to the approval of stage 2 in GERAN#34
  - 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
  - The MS if polled within a block period shall respond after having received all the blocks within that block period – This may need to be clarified for EGPRS

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Rel-7 – Latency Enhancements (1/3)

- **RTTI**
  - **Working Assumptions – G2-070142**
    - Most are endorsed
    - Open issues are highlighted in red in that document
    - Biggest issue: USF in misc. configurations
  - **USF for RTTI** – some attempts at clarifying the issues are available in
    - G2-070143
    - G2-070133
    - Companies encouraged to **reach a compromise** prior to GERAN#34
  - G2-070150 CR 44.060 postponed: TBF in RTTI mode
  - G2-070071 CR 44.060 postponed: Dynamic Allocation in RTTI mode
  - G2-070072 CR 44.060 postponed: Extended Dynamic Allocation in RTTI mode

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Rel-7 – Latency Enhancements (2/3)

- **FANR**
  - **Working Assumptions – G2-070115**
    - Open issue: identification of the TBF being acknowledged by a PAN
      - TFI of the TBF; or
        - a TFI sequence number (UL PAN)
        - USF indicator (DL PAN)
  - **Usage of FANR with BTTI**
    - Endorsed
  - G2-070116 CR 43.064 postponed: Introduction of FANR
  - G2-070117 CR 44.060 postponed: Introduction of FANR
  - **Interworking between event-based FANR and "normal" Ack/Nack reporting - G2-070088**
    - Proposal to avoid double reporting of ack/nack status when an event-based PAN and previously reported PDAN (or polled PAN) would otherwise overlap, through a new "REPORTED" status in the receive window (besides INVALID and RECEIVED)
    - Problem acknowledged, more investigation needed for the proposal

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Rel-7 – Latency Enhancements (3/3)

- **General**

    - **G2-070109** CR 44.018 approved: introduction of MS Reduced Latency EGPRS capability in DTM Request

    - **Faster Resumption of Uplink Transmissions – G2-070057**

        - 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

        - The proposed solution – dummy control block with a specific indication – was questioned vs. existing tools in the standard

        - G2-070073 CR 44.060 postponed

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Rel-7 – HUGE

• None

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Rel-7 – PS Conversational

• None

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Rel-7 – PS HO GAN ⇔ GERAN/UTRAN

- **Stage 3**
    - G2-070105 Draft CR 24.008 endorsed: PS HO GAN Support in MS RAC IE
        - LS to CT1 in G2-070151

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Rel-7 – A-GNSS (1/3)

- **Misc. Corrections**
  - G2-070005 CR 44.031 approved: Correction to GANSS Reference Time
  - Removal of unnecessary truncation of the code phase truncation for Galileo to 1ms
    - Would otherwise unnecessarily increase the position resolution ambiguity
    - G2-070036 CR 44.031 postponed: Time ambiguity on GANSS resolution on GANSS measurements
    - G2-070006 CR 44.031 postponed: Correction to GANSS Measurement Report
  - G2-070112 CR 44.031 approved: Correction to GANSS Reference Measurement Assistance
- **GANSS Capability Information – G2-070008**
  - 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
  - Proposal generally seen as a good proposal and expected to be endorsed at GERAN#34
  - NOTE: does not circumvent the CM3 size problem (See TEI-7)

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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)
  - Proposals to reduce the amount of information needed seen in GERAN#33 in GP-70236 and GP-070250
  - Additional information provided in
    - G2-070009
    - G2-070093 and proposed enhancement in G2-070095
  - Further work needed before a decision can be reached – comparison needed in terms of performance and complexity
  - G2-070010 CR 44.031 postponed
  - G2-070035 CR 49.031 postponed
  - G2-070093 CR 44.031 postponed

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Rel-7 – A-GNSS (3/3)

- **Mean sea level information – G2-070037**
  - New proposal to provide the mean sea level information (approximated through geoid) within GANSS assistance data to the MS to allow the use of sea level as the reference point for altitude estimations while minimizing the impact on MS
  - G2-070038 CR 44.031 postponed
  - New feature, not previously identified for GANSS ⇨ Rel-8

- **GANSS Carrier Phase Assistance – G2-070044**
  - Previously identified as a potential item for GANSS however it was left for further analysis in Rel-7 (GP-062472)
  - Additional data provided in G2-070044 and corresponding signalling in GP-070045
  - Some support however more work needed before it could be introduced – may slip out of GANSS Rel-7 definition
  - G2-070046 CR 44.031 postponed
  - G2-070047 CR 49.031 postponed

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Rel-7 – LCS Enhancements for LBS

- **Bit-efficient extended orbit information**
    - See slide 18 – applied here to GPS
    - G2-070011 CR 44.031 postponed
    - G2-070012 CR 49.031 postponed

- G2-070013 CR 44.031 postponed: Support for GPS Integer Code Phase Reporting to reduce requirements on reference position uncertainty: Linked to G2-070006 and G2-070036 for AGNSS

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Rel-7 – A-GPS Minimum Performance Requirements

- None

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Rel-7 – TEI-7 (1/3)

- **CM3 Extension**
    - Proposal to extend the CM3 length from 14 to 34 octets (max fitting in 2 frames)
    - Proposal endorsement pending confirmation by network vendors that it is feasible considering legacy equipment on the field today
    - If introduced, should be done as a Release Independent feature – Rel-7 introduction necessary
    - Call set-up time would increase due to segmentation however would still remain quite below that of other systems
    - All related CRs postponed
- G2-070102 CR 48.018 approved: MBMS Session Repetition Number IE length in MBMS Session Update Request PDU
- G2-070118 CR 48.008 approved: Allow resource management functions between a BSS and each MSC in an A-flex configuration
- G2-070014 CR 44.006 approved: Correction of misc references and editorial errors

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Rel-7 – TEI-7 (2/3)

- G2-070015 CR 44.060 postponed: 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
  - GERAN1 feedback needed to confirm/infirm GERAN2 understanding
- G2-070016 CR 44.060 approved: Consistent use of "EGPRS Modulation and Coding Scheme" IE
- **BSS Queue Management**
  - Proposal not to use SGSN flow control and instead allow the BSS to discard LLC PDUs (and report back to SGSN accordingly), to attempt at circumventing current limitations on Gb interface that may prove to be a bottleneck for GAN and GERAN Evolution
  - GERAN2 view that flow control should be maintained and BSS Queue Management proposal avoided
  - GERAN2 view that previous "Gigabit" interface should be pursued further

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Rel-7 – TEI-7 (3/3)

- **GAN**

    - G2-070119 Draft CR 43.318 noted: MS in GAN mode if in GERAN/UTRAN preferred mode may perform GERAN/UTRAN Ncell measurements

        - Proposal endorsed by GERAN2, to be submitted to GERAN1

    - G2-070152, G2-070153, G2-070154, G2-070155, G2-070156, G2-070157, G2-070158, G2-070159, G2-070160 Misc CRs 44.318 approved

    - G2-070069 CR 44.318 postponed: timer handling at lower layer failures

    - G2-070068 CR 44.318 postponed: proposal to use UTF-8 character string encoding for AP Service Name IE and GAN Service Zone IE

        - Time needed to investigate the proposal

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Rel-8 – FS on GAN Enhancements

- **GAN Enhancements**
    - Additional information and comparative data provided for GAN Enhancements proposals
    - G2-070161 will be included in the TR but not in the evaluation section
    - G2-070162's content will be included in the TR but not in the evaluation section
    - Evaluation section of the TR need to be filled in for each of the proposal before a conclusion can be reached in GERAN#34
    - Current structure of the TR may need to be enhanced to allow a legible and comprehensive comparison between the solutions

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Rel-8 – GERAN/LTE Interworking

- **Fallback to CS Decision**
  - GERAN2 endorsement that the target GERAN decides which of CS domain and PS domain is to be used for continuity of a voice call in GERAN (from LTE). Principle also applicable to UTRAN – G2-070055. LS sent to other groups in G2-070138
  - Solution proposed for Fallback to CS in case PS HO supported but DTM procedures not supported in the target GERAN – G2-070056
    - More investigation needed
- **I-RAT Handover Principles**
  - GERAN2 endorsed proposed principles (previously endorsed by RAN3) for inter-RAT handover between GERAN and E-UTRAN in G2-070082. Principles are in-line with handover principles for PS HO in 3GPP TS 43.129
  - LS to SA2 and RAN3 in G2-070139

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Rel-8 – VGCS Enhancements for VGCS Apps

• None

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Rel-8 – Other

- Cell reselection enhancement for VGCS – G2-070029
  - Provision of group channel info of target cell while in the source cell by means of SI10bis message. Additional indication on FACCH to signal if the last SI10bis info provided has become obsolete
  - Proposal will be seen in upcoming ETSI TC RT meeting
  - Decision expected at GERAN#34
  - G2-070030 CR 44.018 postponed

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Outgoing LSs

- G2-070094 LS to RAN, RAN2, RAN3, SA2, CT4 cc GERAN, SA on removal of limitation of SRNC identity

- G2-070151 LS to CT1 on MS indication of support for GAN PS HO

- G2-070138 LS to SA2, RAN3 cc SA, SA1, RAN, RAN1, RAN2, CT, CT1 on the continuity of voice calls between LTE and GERAN/UTRAN

- G2-070139 LS to SA2 cc RAN3 on Inter RAT Handover principles between GERAN and LTE

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AOB

- None

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Future meetings

- **GERAN2 #34**   **14 – 18 May 2007**   **Shenzhen, China**
- 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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