

3GPP TSG GERAN2#37

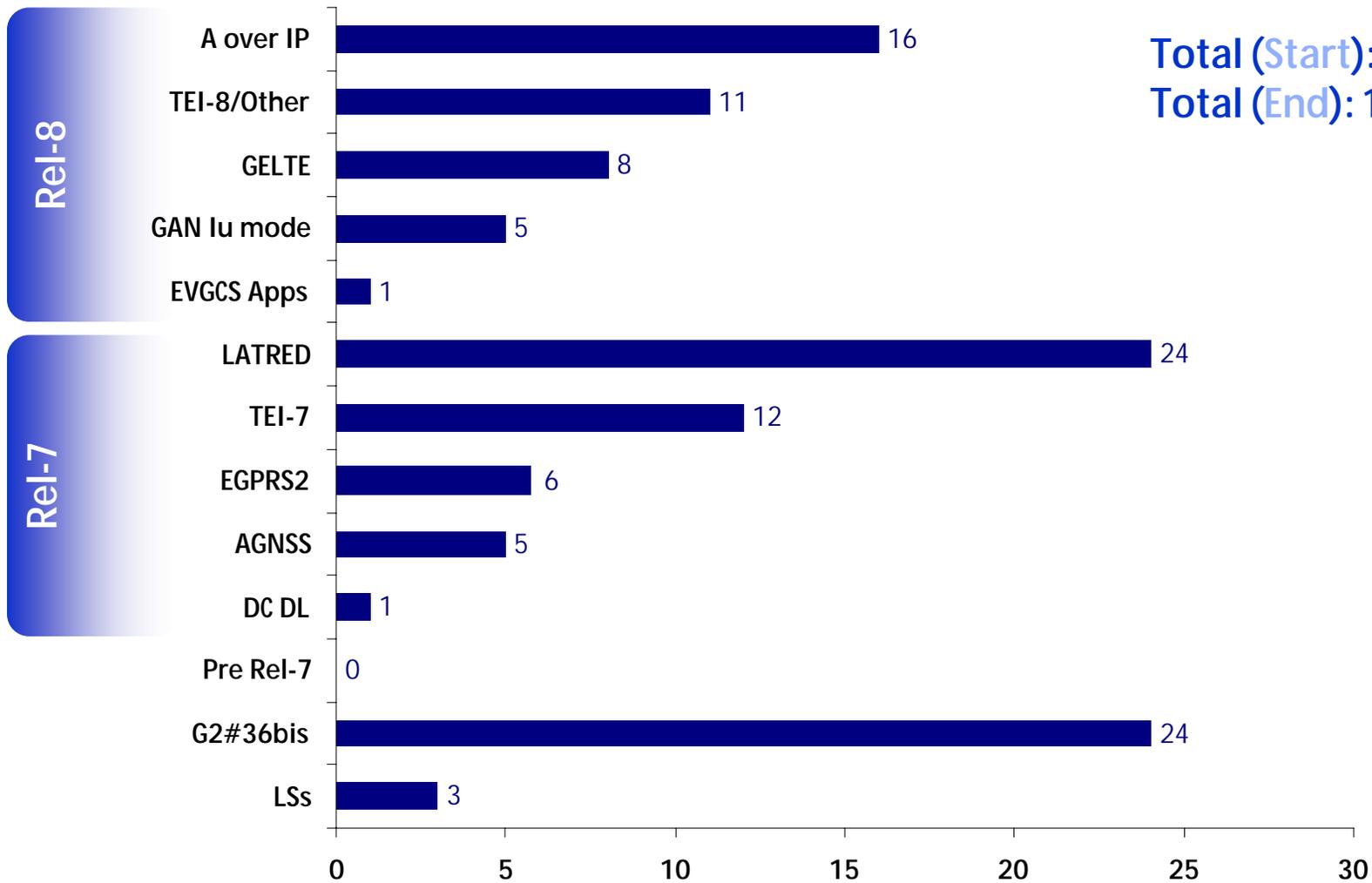
Seoul, South Korea, 18-22 February, 2008

Chairman's summary

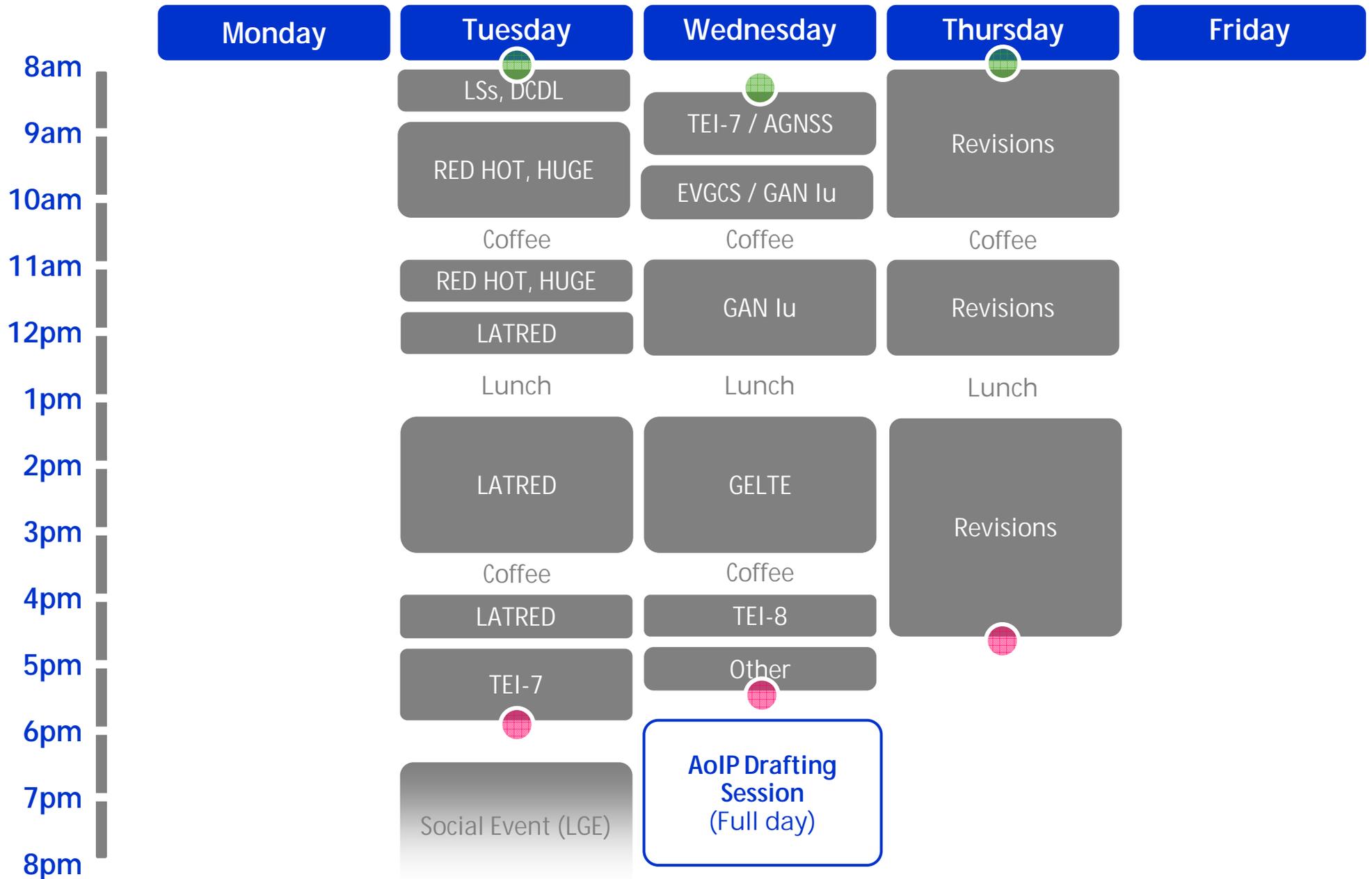
Chairman: Guillaume SÉBIRE (Nokia-Devices/Helsinki)

Secretary: Gert THOMASEN (MCC)

Incoming Contributions per Agenda Item



Total (Start): 92 new (116)
Total (End): 176



Pre Release 7 Corrections

- None

Rel-7 – DTM Handover

- None

Rel-7 – VGCS Enhancements

- None

Rel-7 – Dual Carrier Downlink

- **GP-080331** CR 44.060 approved: Misc. corrections and clarifications
- **GP-080376** CR 44.060 approved: correction to uplink assignment messages for Dual Carrier Downlink and Latency Reductions
 - Note: this CR contains CSN1 updates for BTTI/RTTI Assignments – See slide 11 for GERAN2 decision on GP-080228

Rel-7 – RED HOT / HUGE

- **Multiplexing EGPRS and EGPRS2 MS in Downlink**
 - Some concerns raised about EGPRS2-B throughput degradation given IR is prevented when switching to from DBS to MCS (GP-080266 – not seen in GERAN2)
 - **GP-080127** CR 43.064 noted
 - **GP-080256** CR 44.060 postponed
- **Retransmissions for HUGE**
 - **GP-080158** CR 44.060 postponed: reduction of the range of modulations for HUGE retransmissions from the MS to the BSS
 - No agreement in GERAN1
- **Pulse shape signalling for HUGE B**
 - **GP-080235** CR 44.060 postponed
 - No agreement in GERAN1
- **GP-080334** CR 44.060 approved: inclusion of EGPRS2 link quality measurements in Packet Resource Request message
- **Changes to EGPRS2 Link Quality Measurements**
 - EGPRS2 Timeslot Link Quality Reporting: From the mostly used modulations on all allocated timeslots, measured per timeslot (as currently specified) to the mostly used modulation per timeslot, measured per timeslot
 - **GP-080088** Postponed: No decision in GERAN1
 - Definition of rules for reporting LQ measurements in EGPRS2 when the MS has received the same highest number of blocks for different modulations: priority given to higher order modulations
 - **GP-080089** Postponed: No decision in GERAN1

Rel-7 – Latency Enhancements (1/4)

- **General**

- **GP-080227: highlights ambiguities that should be solved**

- PAN can be sent if a TBF exists where PAN can be sent, otherwise, Ack/Nack message will be sent: need to be defined accurately
 - FANR to be used for all TBFs of a mobile station: assignment messages do not enforce this: abnormal cases to be defined on the terminal side
 - Change of BTTI/RTTI for a TBF implies a change in the meaning of RRBP: clarifications needed to avoid any possible misinterpretations

- **GP-080244: immediate assignment for a TBF using LATRED**

- Principle endorsed to allow Immediate Assignment enabled by One Phase Access Support for LATRED
 - CRs expected in GERAN2#37bis

- **One-Phase Access support for LATRED**

- GERAN2#36bis:

- LATRED Support indicated at Random Access (One Phase Access)
 - Some concerns raised with the MS Tx capability (3 bits) indication while it would not allow the network to know the MS reaction times

- GERAN2#37

- **GP-080049, GP-080196** to address the concerns above
 - No agreement on how to define the MS Tx Capability, or the 3 corresponding bits

- **GP-080335** CR 44.060 postponed

- **GP-080198** CR 44.018 postponed

Rel-7 – Latency Enhancements (2/4)

- (TB)FANR

- **Misc corrections**

- **GP-080337** CR 43.064 endorsed
- **GP-080399** CR 44.060 approved
- **GP-080336** CR 44.060 approved

- **Time-based FANR:**

- Huffmann coding for PAN: Resubmission of an earlier proposal in GP-080238
 - **GP-080233** CR 44.060 approved

- **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
- GERAN#37: Three solutions proposed
 - Fix the RLC protocol to attempt at avoiding the problem: **GP-080245**, **GP-080246** CR 44.060 postponed
 - Fix of the problems when occurring: **GP-080239** CR 44.060 postponed
 - Live with the problem: implementation
- No decision

Rel-7 – Latency Enhancements (3/3)

- RTTI

- Channel quality measurements on PDCH-pairs

- **GP-080042**: computation of MEAN_BEP, CV_BEP measurements according to PDCH pair(s) in the allocation (by averaging across timeslots of the PDCH pair(s))
- **GP-080043** CR 43.064 noted
- **GP-080045** CR 44.060 postponed

- CS1/MCS-0

- Distinction with Stealing flags as per discussion in GERAN2#36bis
 - **GP-080366** CR 43.064 endorsed
 - **GP-080399** CR 44.060 approved
- **GP-080342** CR 43.064 endorsed: use of CS1/MCS-0 for RLC/MAC Control Messages
- **GP-080122** CR 45.010 endorsed (already in GERAN2#36bis): Radio Block specific reaction time
- **GP-080228**: Proposal to update the CSN.1 syntax of BTTI/RTTI Assignments
 - Update of G2-080052 showing different coding alternatives:
 - To avoid as far as possible structures and loops of which the sizes are defined in CSN.1 comments (*-- comments*); and
 - To provide instead explicit termination points as part of the CSN.1 itself
 - GERAN2 agreement to update the CSN.1 and thus avoid any possible misinterpretation

Rel-7 – PS Conversational

- None

Rel-7 – PS HO GAN ↔ GERAN/UTRAN

- None

Rel-7 – A-GNSS

- **GP-080351** CR 49.031 approved: Correction to GANSS Data Bit Assistance Request
 - Correction to the GANSS Data Bit Assistance request so the MS can request any of the elements defined for the GANSS Data Bit Assistance, while the number of satellites, and number of bits have been omitted so far in the request
- **GP-080150** CR 44.031 approved: Correction to Data Bits definition for Galileo
 - Definition of the data bits in the GANSS Data Bit assistance, according to the modulation symbols for Galileo
- **GP-080352** CR 44.031 approved: Corrections to GANSS signal ID and ref measurements
 - Consistent and complete definition of GANSS signals
 - Allow the indication of signals supported by SMLC
 - Allow the request multi-frequency (signal) measurements
- **GP-080160** CR 44.031 approved: ASN1 Syntax and Parameter range corrections
- **GP-080224** CR 44.031 postponed without presentation: GANSS Integer code phase description modification

Rel-7 – LCS Enhancements for LBS

- None

Rel-7 – A-GPS Minimum Performance Requirements

- None

Rel-7 – TEI-7

- **Misc.**
 - **Cell capability indication in dedicated mode**
 - Provision during dedicated mode as to what “GPRS level” is supported by the network so it can be reported to the mobile station’s UI
 - General view that there is no problem today to be solved at layer 2: proposal moved to Rel-8
 - Some concern raised to deliver with L2 signalling some UI related information
 - **GP-080151** CR 44.018 rejected (**Rel-7**)
 - **GP-080152** CR 44.018 postponed: Discussion paper expected at GERAN2#37bis
 - **GP-080349** CR 48.018 approved: release alignment
 - **GP-080396** CR 44.060 approved: Clarification of actions upon NPM Transfer Time expiry
- **GAN**
 - **AMR ToC:**
 - **G2-080059** highlights different variants were identified to format the AMR table of content (RFC3267) during DTX in GAN, and provides a proposal to harmonize the use of the variants between GAN MS and GANC (MGW)
 - **GP-080153:** Updated proposal to mandate a single variant in GAN MS and GANC (MGW): Both encode and decode RTP packets formatted in a “Variant 2” style (NO_DATA entries are not included in the AMR TOC as long as a SID frame is inserted at least every 480 ms)
 - Vendors in GERAN2 confirmed the proposal is acceptable and would not yield any issue with infra/legacy terminals on the field
 - Proposal accepted for **Rel-7 onwards**
 - **GP-080379, GP-080380:** CR 44.318 approved (Rel-7+)
 - **GP-080347, GP-080348** CR 44.318 approved: Correction of MS Classmark 3 IE length (34 octets)

Rel-8 – GAN Iu mode

- **GP-080398** CR 44.318 approved: Addition of GAN Iu Mode functionality to GAN Stage 3
- **GP-080397** CR 43.318 endorsed: Supplementing GAN Registration Update with UARFCN

- **G2-080038 noted:** Benefits of preferred GAN mode indication by the MS
 - MS to indicate whether it prefers to use GAN A/Gb or GAN Iu at PLMN selection: discussed in previous meetings.
 - GERAN2#36bis sent an LS to CT1 (G2-080112) to check whether the proposal violates the PLMN (w/ access technology) selection rules or not
- **GP-080039** Service based handover in GAN
 - Will be investigated further for both GAN Iu mode and GAN A/Gb mode
- **GP-080157** GAN Iu Mode Security Procedures
 - Provides an initial analysis of interoperability between 3G security mechanisms and GA-RRC Security Procedures for GAN Iu for handovers to/from GERAN/UTRAN
 - Work in progress. Once completed, LS will have to be sent to RAN2, RAN3, SA3, CT1

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

- **Subscriber Type indication**

- LS from RAN2 in GP-080077: will be investigated until GERAN2#37bis

- **Fallback to CS Domain**

- Fallback to CS domain in EUTRAN>GERAN interworking relies on Inter-domain Handover within GERAN following Domain Transfer procedures specified in 23.206

- **Interdomain Handover (TEI-8)**

- **GP-080123** CR 43.129 endorsed

- Assumption for Inter-domain Handover is that the Voice Call is anchored in the VCC AS
- A NOTE added to reflect that “The means by which the BSS may determine a voice call is anchored in the VCC AS is FFS”. GERAN2 informed SA2 (G2-080115) that the (target) BSS shall have the knowledge whether a voice call to be handed over is a VCC Call or not, and requested this be provided by SA2.

- **GP-080124** Draft CR 24.008 endorsed (conditionally to stage 2 approval)

- Draft LS to CT1 in GP-080359

- **GP-080200, GP-080215, GP-080216**: Stage 3 CRs to 44.060, 44.018, 48.018 approved in GERAN2#36bis conditionally to stage 2 approval

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

- **GP-080163** Reselection scenarios for multi-RAT terminals
 - Endorsed in opening plenary
- **GP-080164** Equal priority Inter-RAT reselection
 - Clarification of GERAN understanding will be made with an LS
- **GP-080106** Neighbour Cell Lists in GERAN for LTE cells *Black list*
 - Further investigation needed on the concept and its impact to GERAN networks and terminals
- **GP-080167** Handling Neighbour Cell Lists for E-UTRAN *White list*
 - Some concerns raised on the BCCH impact
- **GP-080168** On the introduction of GERAN to E-UTRAN interworking in TS 45.008
 - More investigations needed
 - GP-080169 CR 45.008 noted: Introduction of GERAN to E-UTRAN interworking (Rel-8)

Rel-8 – VGCS Enhancements for VGCS Apps

- **GP-080353** CR 44.018 approved: Inclusion of Priority Uplink Access in Notification/NCH

U-TDOA Enhancement – Rel-8

- None

Rel-8 – TEI-8 (1/2)

- **Misc.**

- **GP-080251** CR 44.060 approved: clarification of DTM Enhanced CS Release
- **GP-080372** CR 44.060 approved: inconsistent references to Downlink TFI Assignment field

- **VGCS**

- **GP-080237** CR 48.008 approved: Talker Channel Priority applies to a specific group call

- **GAN**

- Enhancement of GAN Keep-alive mechanisms:
 - **GP-090193**: provides additional clarifications of the gains as requested in GERAN2#36bis
 - GERAN2 view that the gains are minor and do not justify the introduction of this mechanism given the complexity it requires (e.g. capability/use signalling)
 - **GP-080194, GP-080195**: CRs 44.318 rejected
- Addition of GPRS mode for handover in GAN
 - **GP-080040** highlights that a GAN Iu neighbour might not be reported by an MS when reporting NCell measurements due to priority order between GSM and UMTS cells. Proposed solution to add GPRS mode does not really address the problem itself. This will be studied further.
 - **GP-080041** CR 44.318 postponed

Rel-8 – TEI-8 (2/2)

- LCS
 - **GP-080241** CR 43.059 postponed: Correction to MS behavior in positioning procedure
 - Proposal to propagate the pre-emption mechanism now specified in the BSS side (transparently to the MS) to the MS to trigger termination of the positioning procedure only upon reception of “high” priority RR message
 - Concerns that it is a change of functionality in the MS: Rel-8 only can be considered
 - Backwards compatibility not addressed yet: e.g. Rel-6 BSS with a Rel-8 MS while the BSS does not know the MS is a Rel-8 MS
 - Stage 3 will be impacted

Rel-8 – FS on A interface over IP

- **Acknowledgement of the feasibility study by CT4 and SA2**
 - As of completion of the FS / WID Creation, a response will be needed to CT4, SA2
- **GP-080400** Outcome of the Drafting Session on AoIP
 - Noted as a GERAN2 outcome
- **GP-080247** TR43.903 v0.0.4 endorsed as baseline for further updates
- **Agreed inputs to the TR** (for v0.0.5)
 - **GP-080165** Input to Deployment Scenarios: split scenario 3 into 3a/3b scenarios
 - **GP-080373** Working Assumption for Time Alignment: Time alignment concept and Performance evaluation included in the TR, but will not be in the scope of the WID to be created (will be dealt with as a separate issue)
 - **GP-080229** Time alignment
 - **GP-080356** Clarification to compressed speech over IP
 - **GP-080357** Clarification about the “alternative 2” for Data/Fax handling
 - **GP-080402** Input to Chapter 7 *Study Results, Control Plane*
 - **GP-080405** Conclusion: **Plenary**
- **GP-080406**: Updated TR (**Plenary**)
- **GP-080404**: Proposed Work Item (**Plenary**)

Rel-8 – Other

- **GP-080142** ETWS for GSM
 - Further investigation needed
 - 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, ...)
- **GP-080141** Motivation for a 2G solution for RED
 - Evidence shown of potential issues (signalling load)
 - Further studies needed
 - Common solution for shared LA between 2G/3G
 - 2G-only solution to be investigated according to existing tools in the standard and the potential need for new mechanisms

AOB

- None

Outgoing LSs

- **GP-080359** DRAFT LS to CT1 on Interdomain Handover

Future meetings

- | | | |
|----------------|-------------------------------|--------------------------|
| • GERAN2#37bis | 31 March – 3 April 2008 | Sophia Antipolis, France |
| • 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 | TBD |
| • GERAN2#40 | 17 – 21 November 2008 | TBD |