3GPP TSG GERAN2#39

Florence, Italy, 26-28 August, 2008

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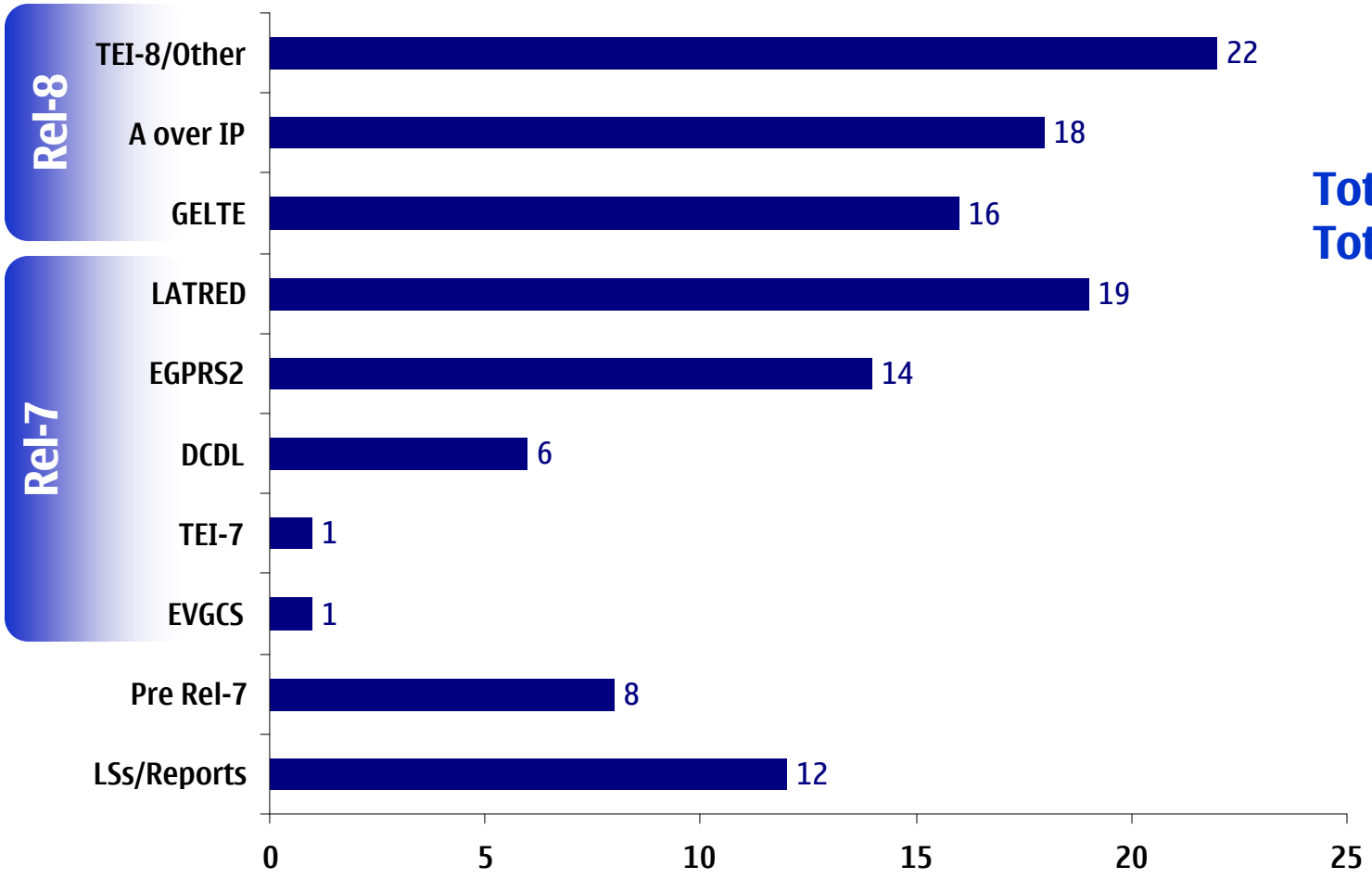
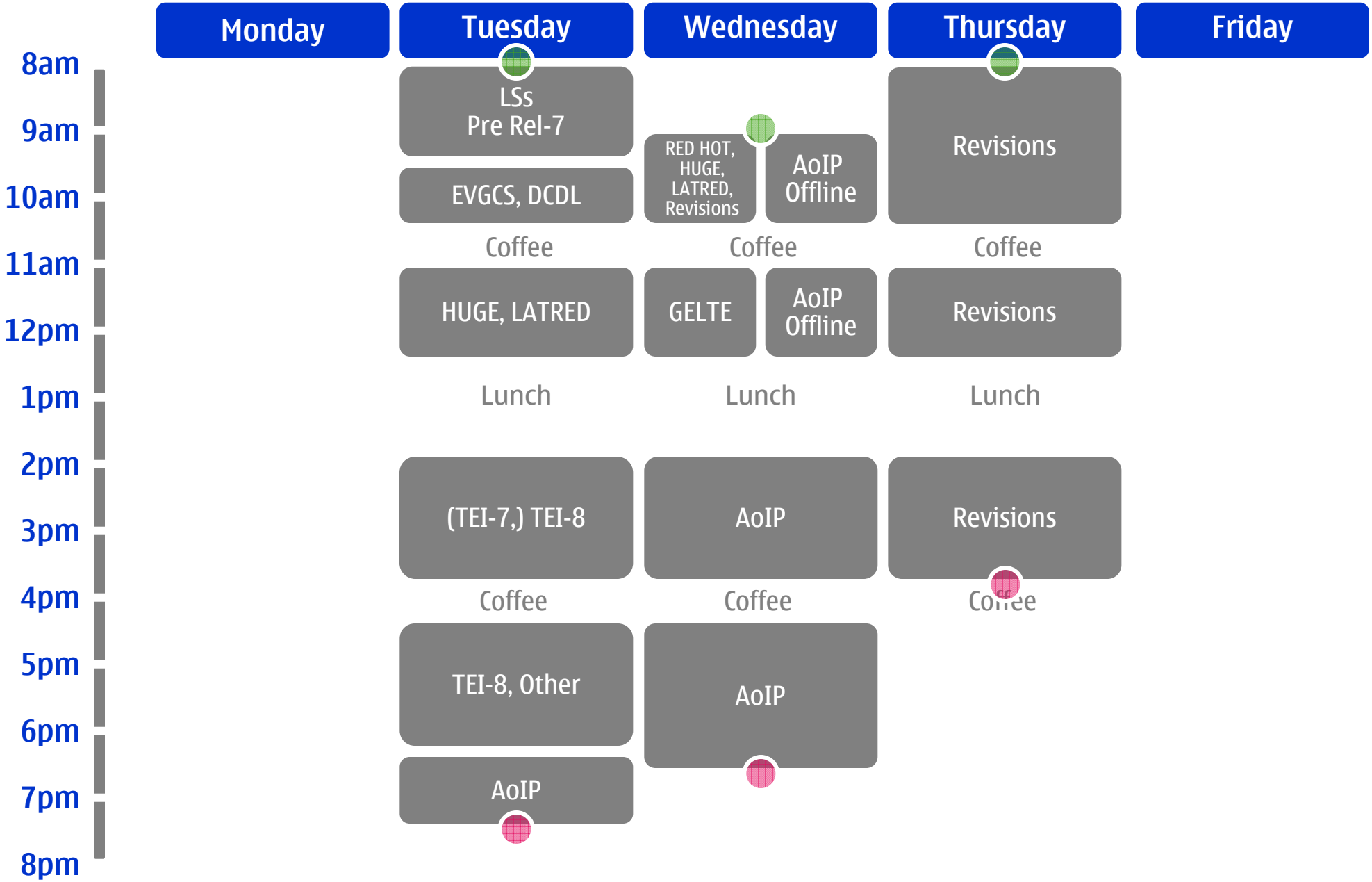
Chairman's summary

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

Incoming Contributions per Agenda Item



Total (Start): 117
Total (End): 238


Monday
Tuesday
Wednesday
Thursday
Friday
8am
9am
10am
11am
12pm
1pm
2pm
3pm
4pm
5pm
6pm
7pm
8pm
LSs
Pre Rel-7
EVGCS, DCDL
Coffee
HUGE, LATRED
Lunch
(TEI-7,) TEI-8
Coffee
TEI-8, Other
AoIP
RED HOT, HUGE, LATRED, Revisions
AoIP Offline
Coffee
GELTE
AoIP Offline
Lunch
AoIP
Coffee
AoIP
Revisions
Coffee
Revisions
Lunch
Revisions
Coffee

Pre Release 7 Corrections

- **Misc.**
  - **GP-081281, GP-081406, GP-081283, GP-081417, GP-081418** CRs 04.06, 44.006 approved (R99 - Rel-7): randomising fill bits in layer 2 messages
    - No compatibility issue with equipments on the field has been highlighted by any vendor as of now
      - Also GP-081059: tested equipments show no issue with the reception of the L2 fill bits
    - Randomisation optional in R99 – Rel-5
    - Randomisation mandated as of Rel-6 in terminals and recommended for networks
  - **GP-081370, GP-081371** CR 44.006 postponed (Rel-6+) LAPDm timing requirements update for response frames to account for possible (FACCH) repetition(s) induced by Repeated FACCH
    - More investigation needed

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Rel-7 – DTM Handover

- None

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Rel-7 – VGCS Enhancements

- **GP-081286** CR 44.005 approved: ptp/ptm SMS for group calls (alignment with other specifications)

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Rel-7 – Dual Carrier Downlink

- **GP-081287, GP-081288** CR 44.060 approved: clarification that two carriers in a dual carrier assignment belong to the same frequency band. Definition of corresponding abnormal cases
- **GP-081289, GP-081290** CRs 44.060 approved: use of frequency parameters in assignment messages
  - Definition of the use case of implicit reassignment of resources (if not otherwise released or modified) on carriers where new frequency parameters are specified
  - Definition of the permitted changes of frequency parameters for a TBF
- **GP-081236, GP-081237** CRs 44.060 approved: alignment of CSN1 coding for downlink power control parameters across RLC/MAC control messages

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Rel-7 – RED HOT / HUGE

- **(RED HOT) Link Quality Reporting**
  - **GP-081030, GP-081031** CR 44.060: Timeslot-based reporting: To plenary
  - **GP-081033, GP-081034** CR 44.060 postponed (account for new modulation and coding schemes for EGPRS2-A, EGPRS2-B)
  - **GP-081225, GP-081226** CR 44.060 postponed (account for new modulation and coding schemes for EGPRS2-A, EGPRS2-B)
  - No progress pending GERAN1 conclusion
  - Companies invited to progress offline until the next meeting
- **GP-081291, GP-081292, GP-081387, GP-081388** CRs 44.018 approved: inclusion of EGPRS Level IE in uplink and downlink assignments
- **EGPRS Level Change during a TBF**
  - To allow seamless switch between EGPRS and EGPRS2-A/B levels i.e. without TBF release/re-establishment
    - Uplink: EGPRS ⇔ EGPRS2-A / EGPRS2-B
    - Downlink: network implementation
  - **GP-081409, GP-081410** CRs 44.060 approved

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Rel-7 – Latency Enhancements

- **Misc. corrections**
  - GP-081293 CR 43.064 endorsed: alignment between stage 2 and stage 3 for FANR behaviour
  - GP-081039, GP-081040 CR 44.060 rejected: CSN1 change for FANR in a number of messages
    - GERAN2 view to address instead abnormal cases if such are missing
  - GP-081294, GP-081295 CR 44.060 approved: correction on V(B) and TENTATIVE_ACK to allow pre-emptive retransmission of TENTATIVE_ACK block in restricted conditions
  - GP-081336, GP-081337 CR 44.060 approved: MS polling behaviour upon change of TTI configuration
  - GP-081343, GP-081344 CR 45.010 endorsed: correction of MS reaction time upon change of TTI configuration
  - GP-081231, GP-081232 CRs 44.060 approved: Correction to the definition of N_USF, N_TS and N_PAIRS
  - GP-081389, GP-081234 CRs 44.060 approved: Correction to downlink PDCH pairs assignments to provide explicit indication of field lengths as per GERAN#37 agreement, and subsequently optimise the coding
- **Link Quality Reporting (RTTI) – reporting per PDCH-pair**
  - **GP-081014 presented**
  - GP-081341 CR 43.064 endorsed
  - GP-081326, GP-081327 CR 44.060 approved
- **GP-081037: EDA in RTTI configuration**
  - The proposal to reduce USF monitoring in BTTI USF mode to a single PDCH does not work as it would prevent PACCH/D reception: RTTI applies to both PDTCH and PACCH i.e. MS with an UL RTTI TBF shall monitors PACCH/D using RTTI (PDCH-pair)

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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

- None

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Rel-8 – GAN Iu mode

- None

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Rel-8 – GERAN/E-UTRAN Interworking (1/4)

- **MS capability indication**
  - GP-081395 Draft CR 24.008 endorsed
    - Indication of EUTRA FDD/TDD capability bits information in MS RAC IE and CM3 IE
    - Note: open issue whether EUTRA support implies PS HO support or not (however no impact to this draft CR while a separate PS HO capability indicator is present)
    - Corresponding LS to CT1 in GP-081396
- **PCID Grouping per Tracking Area – GP-081216**
  - Highlights a problem raised in previous meetings as to the risk and implications of reselection to a cell belonging to a forbidden Tracking Area: the MS would be forbidden to reselect any EUTRA cell on the same frequency for *x* minutes
  - Proposed solution to group PCID per Tracking Area in order to allow reselection to cells not belonging to such group (hence to this TA) if the TA had previously been identified as forbidden
  - PCID grouping per TA may be investigated in RAN2 should a solution to the problem be required by TSG GERAN – **Plenary discussion needed**
- **Faster system information acquisition**
  - **GP-081223, GP-081021 (later revised in GP-081386)**
  - Aim to improve the average sys info acquisition time by allowing e.g. a GSM/E-UTRA terminal to skip UTRA NCell Info if it has already received all the GSM and E-UTRA NCell Info
  - Working assumption in GP-081223 agreed.
    - One company does not agree with the working assumption

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Rel-8 – GERAN/E-UTRAN Interworking (2/4)

- **Measurement Reporting**
  - **GP-081116** addressing the impact of EUTRAN NCell Reporting on GERAN signalling: further investigations needed
    - Reuse of MEASUREMENT REPORT message subject to the feasibility of a 3-bit report (RSRP) – GERAN1
    - Coordination with GERAN1 – Work in progress
  - **GP-081182, GP-081222** CRs 44.018, 44.060 postponed
    - Definition of the impact of EUTRAN Neighbouring Cell Information and Measurement Information on signalling
    - Companies invited to review the CRs offline
  - **Measurement Control - GP-081169, GP-081333**
    - Proposals to allow (de)activating EUTRA measurement/measurement reporting (possibly on an EUTRA carrier basis) in dedicated mode, dual transfer mode, packet transfer mode
    - GP-081333 proposes applicability to UTRA as well and (measurement) reporting as a function of RAT priority
    - No decision
    - Feedback from GERAN1 needed

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Rel-8 – GERAN/E-UTRAN Interworking (3/4)

- **CSG mobility from GERAN to E-UTRAN – GP-081020**
  - Only single slot dedicated mode has been investigated
  - Packet transfer mode scenarios missing e.g multislot scenarios
  - Proposal assumes availability of freq. parameters for CSG cells
    - Signaling means to convey these parameters to terminals FFS – signalling discussions in GERAN have focused on macro cells so far (e.g. NCL)
  - Further investigation needed

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Rel-8 – GERAN/E-UTRAN Interworking (4/4)

- **Inter-RAT PS Handover**
  - GP-081350 CR 43.129 endorsed: Introduction of inter-RAT PS handover between GERAN and E-UTRAN
  - GP-081184 CR 43.055 endorsed
    - No DTM Handover from GERAN to EUTRAN
    - EUTRAN > GERAN DTM is described in SRVCC specification
  - GP-081185 CR 48.018 postponed
    - Content endorsed by GERAN2 – Approval expected in GERAN#40

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Rel-8 – VGCS Enhancements for VGCS Apps

- None

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Rel-8 – U-TDOA Enhancement

- None

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Rel-8 – TEI-8 (1/2)

- **GP-081235:** Handling of MS RAC IE in PACKET RESOURCE REQUEST message when the full set of capabilities of the MS for a single frequency band cannot fit in the PRR message
  - Applicable for two-phase access and one-phase access (upon request of capabilities from the network)
  - Discussion raised in GERAN2#38bis (for two-phase access). No concerns raised on the proposed behaviour:
    - Always include MS RAC 2 IE in PRR during two-phase access
    - It the full set of capabilities for a single frequency band cannot fit in the PRR message, the MS shall include at least the set of capabilities that would be made available during a one phase packet access (GPRS or EGPRS multislot class).
    - The MS shall set the ADDITIONAL MS RAC INFORMATION AVAILABLE field to indicate additional RAC are available
    - The MS shall include the full set of capabilities for that frequency band in ARAC message if sent to the network. This set would then be used by the network
  - **GP-081300** CR 44.060 approved according to the behaviour above
    - **Release independent** and thus can be taken into use without requiring Rel-8 support in terminals.
    - There may be impact to test cases

- **GP-081270:** Mixed TTI TBF configuration for latency reduction
  - To allow a TBF to use both RTTI radio blocks and BTTI radio blocks in order to better exploit the capabilities of multislot classes and allow higher data rates while overcoming restrictions imposed by RTTI configurations
  - Concerns raised with the proposal
    - Forces BTTI USF mode
    - Penalizes latency benefits brought by RTTI (while RTTI is primarily driven by latency)
  - Further investigation needed

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Rel-8 – TEI-8 (2/2)

- **Multiplexing enhancements for single TBF operation**
  - **GP-081215** proposed key attributes for a solution using a single RLC engine using NPM and LLC PDU multiplexing principles
    - More investigation needed
  - **G2-080371**: multiplexing two RLC entities (NPM and AM) on a single TBF
    - More investigation needed
  - Proposals driven by the complexity of MTBF but not to replace MTBF
  - Some concerns raised on this propoal given MTBF is already in the standard (Rel-6)
- **GAN**
  - **GP-081065** CR 44.318 postponed: New triggers proposed for GAN Registration update procedure (GAN Iu mode and GAN A/Gb mode)
    - Need for the new triggers unclear and motivations/rationale behind the proposal were requested
  - **GP-081390, GP-081403** CRs 43.318, 44.318 endorsed/approved: support of multiple GAN modes per PLMN
    - Indicate the GAN modes supported per each GANC (PLMN) at register redirect
- **VGCS**
  - **GP-081048** CR 44.018 approved: Uplink reply procedure may be triggered with Uplink Free message to check the presence of MS on the VGCS channels and determine whether the uplink is free
  - **GP-01194** CR 44.018 approved: SI10ter format corrected (CSN1)

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Rel-8 – A interface over IP (1/2)

- **Updated WID**
  - GP-081361 Revised WID to account for CT4, SA4 WID: Endorsed
  - GP-081362 Revised BB to highlight the new TS: Endorsed

- **AoIP PCM Packetisation Time**
  - Single non-negotiable option
  - Previous working assumption of 20ms now approved by consensus
    - See MCC Report for disclaimer of the approval: i.e. no need for significant memory upgrade and/or DSP processing in the MGW
  - GP-081407 CR 43.903 endorsed: Working Assumption on PCM Packetization time

- **CSD Aspects (in the TR)**
  - GP-081372 CR 43.903 endorsed: Working assumptions for CSD services
  - GP-081401 CR 43.903 endorsed: Data redundancy for CSD services
  - LS in GP-081421
- **Misc.**
  - GP-081377 draft GSM-HR RFC endorsed by GERAN2: to plenary

- GP-081422 New ”48.cde” TS to address RTP/RTCP aspects of BSS/MGW interface in GERAN v1.0.0
  - >60% complete
  - Endorsed by GERAN2
  - To plenary

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Rel-8 – A interface over IP (2/2)

- **48 series** – nearing completion
  - GP-081100 CR 48.001 approved: Introduction of A interface over IP transport
  - GP-081400 CR 48.008 approved: BSSMAP Procedures
  - GP-081402 CR 48.008 approved: Internal handover procedures (BSS initiated)
  - GP-081399 CR 48.008 approved: Internal handover procedures (MSC initiated)
  - GP-081397 CR 48.008 approved: BSSMAP Signalling (messages and IEs)

  - GP-081044 CR 48.008 postponed: Messages and IEs to support CSD
    - Will be investigated further offline
    - Procedural description missing

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Rel-8 – ANSS

- **GP-081345** CR 43.059 endorsed
- **GP-081324** CR 44.031 approved: RRLP Support
  - Some companies requested the addition of L1 Coarse Acquisition signal support for *Real-Time Integrity* and *Signal Availability Indication* for modernised GPS: this will be addressed in future meetings
- **GP-081392** CR 49.031 approved: BSSAP-LE Support
- **GP-081072** CR 44.071 approved: LLP Support
- **GP-081073** CR 48.031 approved: SMLCPP Support

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Rel-8 – Other

- **ETWS**
  - **GP-081217:** Proposed solution for idle mode (PCH with non-DRX) reviewed
    - Max amount of information to be provided at primary notification (incl. possible digital signature) missing
    - LS in GP-081404
  - Further investigations needed for a solution supporting dedicated mode, dual transfer mode and packet transfer mode
    - TR 23.828 v0.2.0 describes a solution for dedicated mode / dual transfer mode but seems not applicable for packet transfer mode
- **Support of AGPS in GAN – GP-081147**
  - Aiming at providing sufficient location accuracy in GAN for emergency calls
  - More time needed to investigate the proposals, its requirements and implications
  - To plenary
- **Support of Voice Band Data Modems in GAN – GP-081229**
  - Proposal to use G711 (voice band data mode) to support modem/fax implies changes to the A interface and hence “breaks” GAN principles
  - Discussion to be handled in SA2/CT as appropriate

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AOB

- None

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Outgoing LSs

- **GP-081404** LS to SA1, SA2, SA3, CT1 cc RAN2, RAN3 on ETWS
- **GP-081405** LS to SA4, CT4, CT3 on AoIP
- **GP-081421** LS to CT3 on AoIP
- **GP-081396** LS to CT1 on E-UTRA Capability

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Future meetings

• **GERAN2#39bis**	**30 September – 3 October 2008**	**Sophia Antipolis, France**
• GERAN2#40	17 – 21 November 2008	Miami, USA

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