

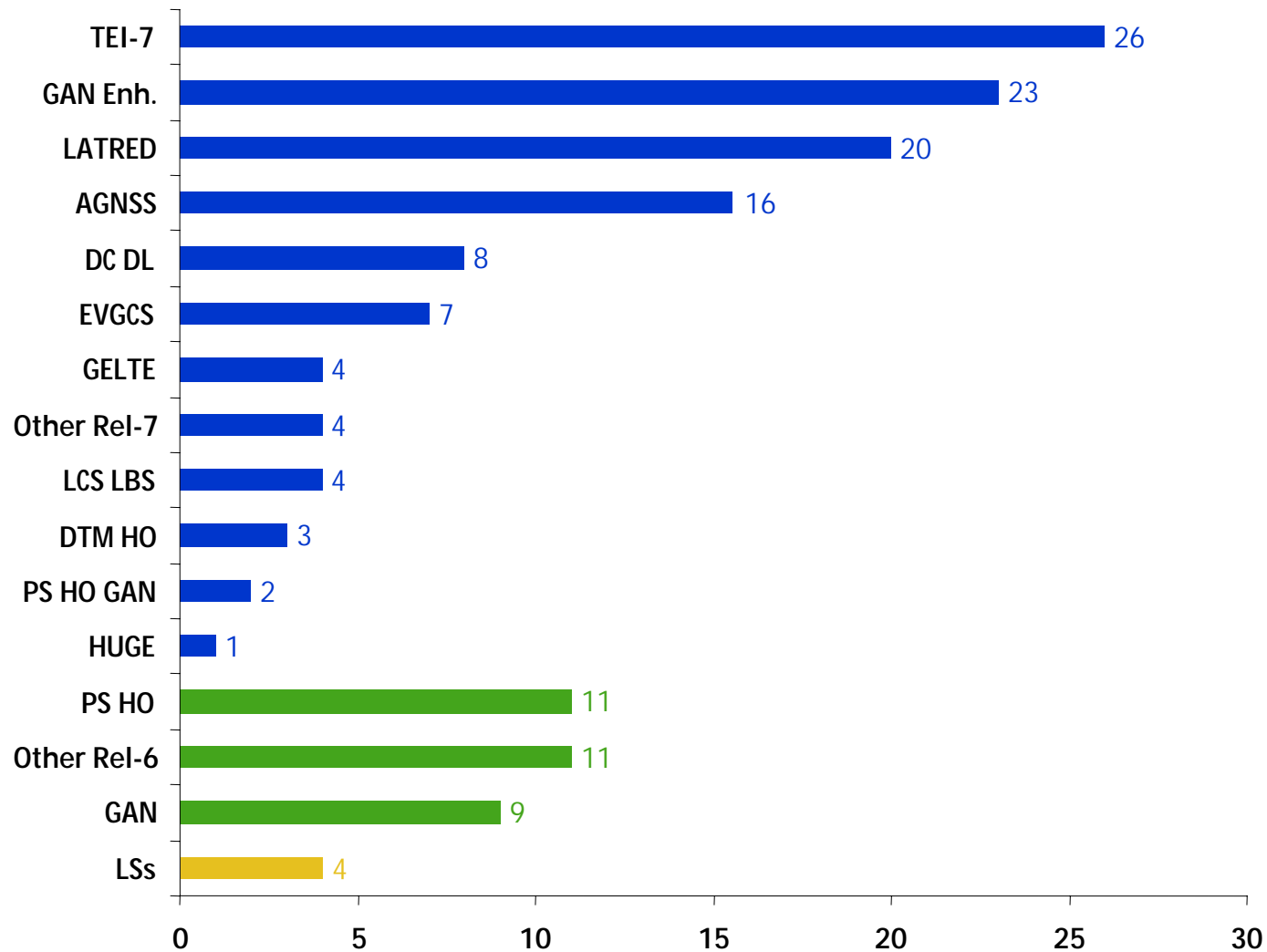
# 3GPP TSG GERAN2#33

Seoul, Korea, 13-15 February, 2007

Chairman's summary

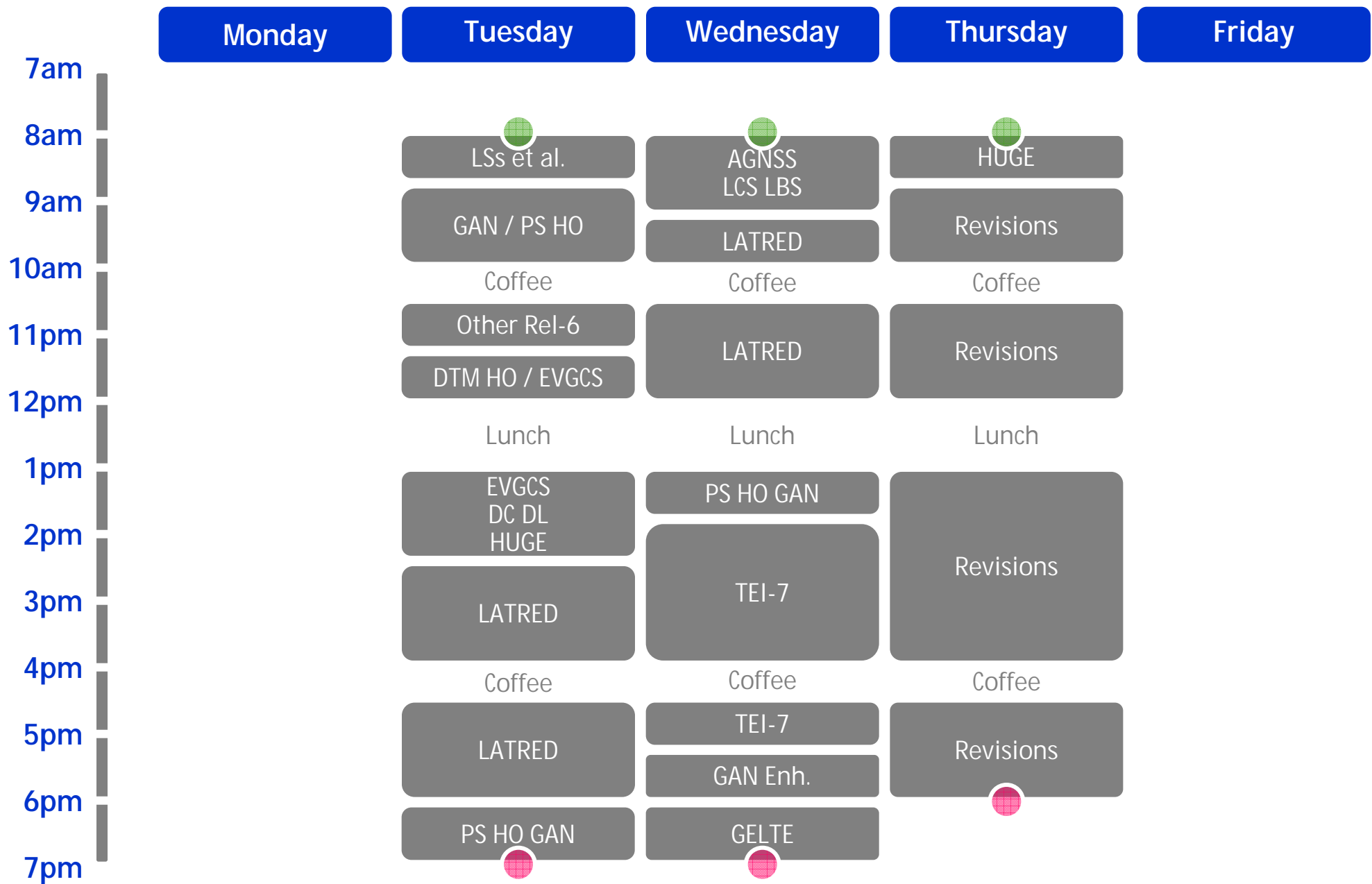
Guillaume SÉBIRE (Nokia-TP/Helsinki)

# Incoming Contributions per Agenda Item



Total: 153

Total (end): 257



## 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)

# Completed Rel-6 Work Items (1/4)

- **GAN**
  - GP-070498, GP-070499 CRs 43.318 endorsed
    - Correction of BSSMAP messages in the MT call flow to provide alignment with 48.008: Paging instead of Paging Request
  - GP-070251, GP-070252 CRs 44.318 rejected
    - Release of GA-CSR resources if the MS fails to complete a requested handover
  - **MS Indication about the SEGW identity**
    - GP-070285, GP-070286 CRs 44.318 approved
  - **Provision of GAN services during PLMN scan (manual PLMN selection)**
    - After registration, the MS initiation of a register request towards the default GANC to retrieve the available GAN PLMN list requires first deregistering from the currently registered GANC ⇒ Loss of GAN services
    - Two solutions proposed so that the MS would deregister from the currently registered GANC only when commencing PLMN selection – i.e. when the MS starts to attempt registration with each GANC in the GAN PLMN list ⇒ Avoid dropping GAN services
    - Companies invited to review the two proposed solutions outlined in GP-070030
  - **GAN Certificate testing**
    - GP-070019, GP-070020 CRs 44.014 approved

# Completed Rel-6 Work Items (2/4)

- PS Handover

- Stage 2

- GP-070339, GP-070340 CRs 43.129 endorsed
      - Conditions for the TBSS to reject a PS Handover in case of critical / non-critical PS Handover depending on whether PFCs can be granted the requested QoS or not
    - GP-070488, GP-070427 CRs 43.129 endorsed: misc. updates

- Stage 3

- GP-070540, GP-070551 CRs 48.018 approved: misc. updates
    - GP-070287 CR 44.060 approved: correction to abnormal cases on MS Behaviour for A/Gb to A/Gb PS Handover
    - GP-070329, GP-070330 CRs 48.018 postponed: indicate in Delete BSS PFC PDU the handover is successful since the SGSN may send Delete BSS PFC PDU at any time
      - Some concerns raised that this is not needed

- NOTE: handling of default PFCs to be investigated

# Completed Rel-6 Work Items (3/4)

- **DTM Enhancements**

- Enhanced DTM CS Release
  - Upon release of an RR connection, if only LA update is required, PS resources are no longer released
  - [GP-070253](#), [GP-070254](#) CRs 43.055 endorsed
  - [GP-070255](#), [GP-070256](#) CRs 44.060 approved

- **Misc.**

- [GP-070327](#), [GP-070328](#) CRs 44.060 approved
  - Ensure that the format of Packet Control Acknowledgement is four normal bursts when extended RLC/MAC control message segmentation is used
- [GP-070480](#) CR 48.018 approved: corrections of the IEI value (Ciphering Key Sequence Number)
  - A peer CR to Rel-7 approved as well in GP-070153 – not an exact mirror

# Rel-7 – DTM Handover

- GP-070321 CR 44.018 approved
  - Inter RAT DTM Handover from GERAN A/Gb mode to UTRAN
- GP-070436 CR 48.018 approved
  - PS HO Request Procedure: Rely on PS cause to define criticality of DTM Handover
- **Fast Sending of DTM Handover Command**
  - Added as an implementation option for the BSS not to wait for a response from the PS CN for sending the DTM HO Command to the MS
  - GP-070438 CR 43.055 endorsed
  - GP-070524 CR 48.008 approved



## Rel-7 – VGCS Enhancements

- [GP-070439](#) CR 44.018 approved: SMS support during ongoing group call and Causes for notification
- [GP-070440](#) CR 48.008 approved: Correction and addition to Paging Information IE
  - Paging Information IE shall be included in the PAGING message if the paged MS is a member of one or more VGCS/VBS groups, irrespective of the service
  - Code point for USSD is added
- [GP-070441](#) CR 48.008 approved: Abnormal cases for A interface link sharing
- [GP-070442](#) CR 48.008 approved: Cell Id List Segment in VGCS/VBS Assignment Request
  - Cell Identifier List segment IE to be included in the VGCS/VBS Assignment Request when A interface link sharing is used *and* one or more VGCS/VBS Area Cell Info messages is to follow
- [GP-070443](#) CR 48.008 approved: Clarification of the queuing procedure
  - Queuing not used if A interface link sharing is used

# Rel-8 – VGCS Enhancements for VGCS Apps

- None

# Rel-7 – DC DL

- **Stage 2**

- GP-070467 CR 43.064 endorsed: Removal of dependencies between uplink and downlink dual carrier configurations

- **Messages**

- GP-070324 CR 44.060 approved: further impacted messages
- GP-070446, GP-070447 CRs 44.018, 44.060 approved: allow SC TBF assignment(s) among DC TBF assignment(s) when assigning MTBF

- **Procedures**

- GP-070491 CR 44.018 approved
- GP-070536 CR 44.060 approved
  - **Working Assumption:** no carrier-wise LA in Uplink i.e. a single commanded MCS applies to both carriers
    - Input welcome should carrier-wise LA be pursued

- **MSRD and DCDL**

- Means for the MS to turn on MSRD on a need basis and notify the network accordingly
- GERAN1 requested more time to investigate this
- GP-070326 CR 44.060 postponed

# Rel-7 – Latency Enhancements (1/3)

- **RTTI**

- FTA introduced as a TEI-7 – would be applicable to RTTI as well (pair-wise EDA)
- No Decision on pair-wise DA
- GP-070292 CR 44.060 postponed: Introduction of support for TBF in RTTI Mode
- GP-070293, GP-070294 CRs 44.060 Postponed: RTTI with (E)DA
- GP-070297 CR 44.060 postponed: duplication of distribution messages over 10ms and 20ms TTI when both RTTI and BTTI are multiplexed on the same PDCH
- **Faster Resumption of Uplink Transmissions – GP-070264**
  - Proposal for the MS to indicate upcoming UL activity to the network to enable resumption of “normal” USF scheduling
  - Benefits to be quantified vs. existing mechanisms
  - GP-070295 CR 44.060 postponed
- **Reduction of RRBP reaction time for RTTI**
  - GP-070296 CR 44.060 postponed
  - Redefinition of RRBP to allow “fast” response from the MS – min 20ms (instead of min 40ms)
  - Linked to FANR discussion – Potential PAN indication through RRBP
  - No decision

# Rel-7 – Latency Enhancements (2/3)

- **FANR**

- Proposed working assumptions in [GP-070453](#) endorsed
- Event-based reporting: no agreement on policy for reporting
- **GERAN2 view that**
  - Large PAN (> 30bits) not needed
  - Short PAN sufficient for VoIP
  - A PAN in a downlink RLC/MAC block for data transfer need not be addressed to the MS to which this RLC/MAC block belongs
- **FANR with BTTI**
  - Clear performance benefits have been shown
- [GP-070273](#) CR 43.064 noted (postponed)
  - Companies invited to review the CR offline and provide comments to the source
- **Time-based reporting:** no input

# Rel-7 – Latency Enhancements (3/3)

- **RTTI/FANR Combination**

- **GERAN#32:** The support (and use) of RTTI and FANR coupled both in networks and terminals – one unique capability
- **GERAN#33:**
  - RTTI must use FANR
  - FANR might be used with BTTI (**open**): see previous slide
    - Leave the option in networks not to implement RTTI if FANR is used thereby potentially reducing RTTI testing opportunities
  - The support of RTTI and FANR coupled in terminals – one unique capability: { RTTI, FANR }
  - The support of RTTI and FANR in networks as (open): { RTTI , {FANR} }
- **GP-070525** Draft CR 24.008 endorsed
  - Support indication in MS RAC
  - CM3 not impacted: DTM REQUEST will be updated
  - LS in GP-070528

# Rel-7 – HUGE

- **Working Assumptions**
  - GP-070485 Proposed Stage 2 Working Assumptions
    - Endorsed – To plenary

# Rel-7 – PS Conversational

- None



# Rel-7 – PS HO GAN ⇔ GERAN/UTRAN

- Stage 3
  - GP-070492 CR 44.060 approved
  - GP-070493 CR 44.318 approved

## Rel-7 – A-GNSS (1/2)

- GP-070537 CR 49.031 approved
- GP-070530 CR 48.008 approved
- GP-070531 CR 48.018 approved
- GP-070314 CR 44.118 postponed
- GP-070343 CR 44.031 postponed: MS to optionally report a code phase measurement within the range of 0-4ms corresponding to the primary code length of Galileo E1-OS
- GP-070559 Draft CR 24.008 – **Plenary**
  - GANSS capability in CM3 and MS RAC
  - LS in GP-070560
- **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: GP-070236, GP-070250
  - Further work needed to allow a fair comparison of the proposals in terms of performance and complexity

## Rel-7 – LCS LBS

- **Bit-efficient extended orbit information**
  - See previous slide – applied here to GPS
  - **GP-070238, GP-070239** CRs 44.031, 49.031 postponed: companies invited to review the CRs offline for they provide an accurate description of how the proposal in GP-070236 fits into specifications

# Rel-7 – A-GPS Minimum Performance Requirements

- A-GPS Minimum Performance requirements
  - GP-070123 CR 44.031 Approved
    - New IE to define min response time for A-GPS

# Rel-7 – TEI-7 (1/3)

- **Radio Blocks for LQ reporting**
  - No change to 44.060 – 45.008 to list the requirements while 44.060 points thereto
- **Tunneling of GPRS Information in DTM**
  - [GP-070484](#) CR 44.018 approved
- **Flexible Timeslot Assignment (EDA)**
  - [GP-070476](#) CR 44.060 approved
  - [GP-070526](#) Draft CR 24.008
    - Support indication in MS RAC
    - CM3 not impacted: DTM REQUEST will be updated
    - LS to CT1 in GP-070527
- **Segmented HANDOVER / ASSIGNMENT COMMAND**
  - Benefits to be demonstrated – Further investigation of the problem
    - Problem: loss of ACK frame (NW) or delivery of I-frames (MS) ?
    - Reason for change in the CRs (GP-070269, GP-070315) however identifies the loss of ACK frame as being the problem
  - Two competing proposals in GP-070162 and GP-070265, GP-070266 that address the delivery of I-frames to an MS
    - Both proposals aim at increasing the LAPDm window size to two, thus allowing an MS to store an out-of sequence frame (new requirement)
  - Proposal to address the delivery of ACK frame
    - To allow the network to send a 2nd segment without waiting for an ACK frame

## Rel-7 – TEI-7 (2/3)

- **PS Handover**

- **Direct Tunnel**

- GP-070538 CR 43.129 changes endorsed (not to be approved before GERAN#34)
      - To be verified by SA2 before it can be approved
    - GP-070553 LS to SA2

- **Other**

- GP-070260 CR 43.129 endorsed: inclusion of Activity Status Indicator
    - GP-070302 CR 44.060 postponed: RLC mode change after PS Handover
      - No support as of yet
      - Scenario to be clarified
    - GP-070304 CR 44.060 approved: correction to abnormal cases on MS Behaviour for A/Gb to A/Gb PS Handover

## Rel-7 – TEI-7 (3/3)

- VGCS

- GP-070244, GP-070245 CR 44.018, 48.008 postponed: Assignment from dedicated signalling channel to group call channel
- GP-070153 CR 48.018 approved: corrections of the IEI value (Ciphering Key Sequence Number)
  - A peer CR to Rel-6 approved as well in GP-070480 (Rel-7 is not an exact mirror)
- GP-070482 CR 48.008 approved: Corrections to Cell Identifier Lists
- GP-070155 CR 44.018 approved: Correction of IE name in PRIORITY UPLINK REQUEST message
- GP-070338 CR 48.006 approved: Definition of SCCP procedures for release of VGCS/VBS call controlling/resource controlling connections
- GP-070337 CR 48.008 approved: Definition of BSSAP procedures for release/ refusal of VGCS/ VBS call controlling/ resource controlling connections
  - It will be investigated whether some error/abnormal cases are missing – separate CR will be made if needed

# Rel-7 – Other

- **GAN Enhancements**

- Updated TR in [GP-070496 \(Plenary\)](#) – includes updated proposals in:
  - [GP-070473](#): Enhanced Up A/Gn
  - [GP-070471](#): Iu mode GAN
    - [GP-070495](#): Terminal impacts
  - [GP-070305](#): Combined GANC/SGSN (Parts)
  - Are included in the TR for each solution an evaluation vs objectives, according to the table format proposed in GP-070306
- GP-070497 LS to be sent to CT1, SA2, RAN2, RAN3 to ask for feedback and feasibility assessment of the proposals



# Rel-7 – GERAN/LTE Interworking

- **LS in GP-070461**

- GERAN2 recommendation to remove the example on IoT and early terminals from the LS for the problem description is already accurate, and the example though correct could otherwise narrow-down the span of the problem and/or be misinterpreted

- **Fallback to CS**

- Proposal that (target) GERAN holds the decision for fallback to CS domain
- Reasonable proposal – not endorsed yet

# Outgoing LSs

- GP-070422 LS to RAN3, CT3 cc CT4, GERAN3 on LS on MBMS-Session-Duration AVP
- GP-070528 LS to CT1 on introduction of Latency Reduction capabilities
- GP-070560 LS to CT1 on Modification of TS 24.008 to include GNSS/Galileo capabilities
- GP-070527 LS to CT1 on introduction of Flexible Timeslot Assignment support indication
- GP-070553 LS to SA2 on Direct Tunnel Functionality
- GP-070497 LS to CT1, SA2, RAN2, RAN3 on Feasibility of GAN Enhancements

# AOB

- CM3 size issue and lack of segmentation need to be addressed

# Future meetings

- |                |                       |                           |
|----------------|-----------------------|---------------------------|
| • GERAN2#33bis | 26 – 30 March 2007    | Montreal, Canada          |
| • GERAN #34    | 14 – 18 May 2007      | Shenzhen, China           |
| • GERAN2#34bis | 25 – 29 Jun 2007      | Póvoa de Varzim, Portugal |
| • GERAN #35    | 27 – 31 August 2007   | Dublin, Ireland           |
| • GERAN2#35bis | 08 – 12 Oct 2007      | Sophia Antipolis, France  |
| • GERAN #36    | 12 – 16 November 2007 | TBD, USA                  |