

# 3GPP TSG GERAN2#44bis

Bratislava, Slovakia, 27-29 January 2010

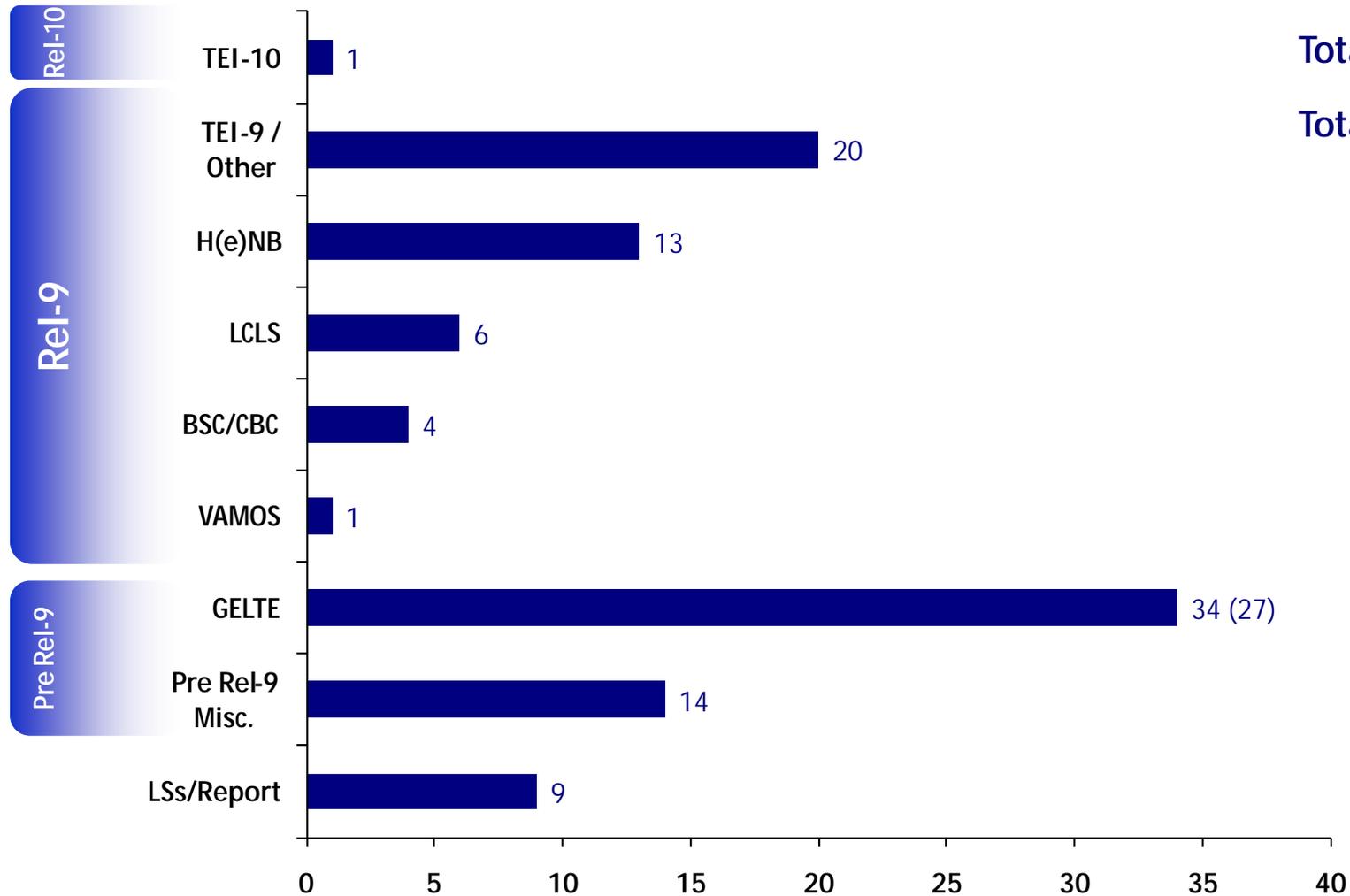
Chairman's Summary

**NOKIA**

Guillaume SEBIRE (Chairman)

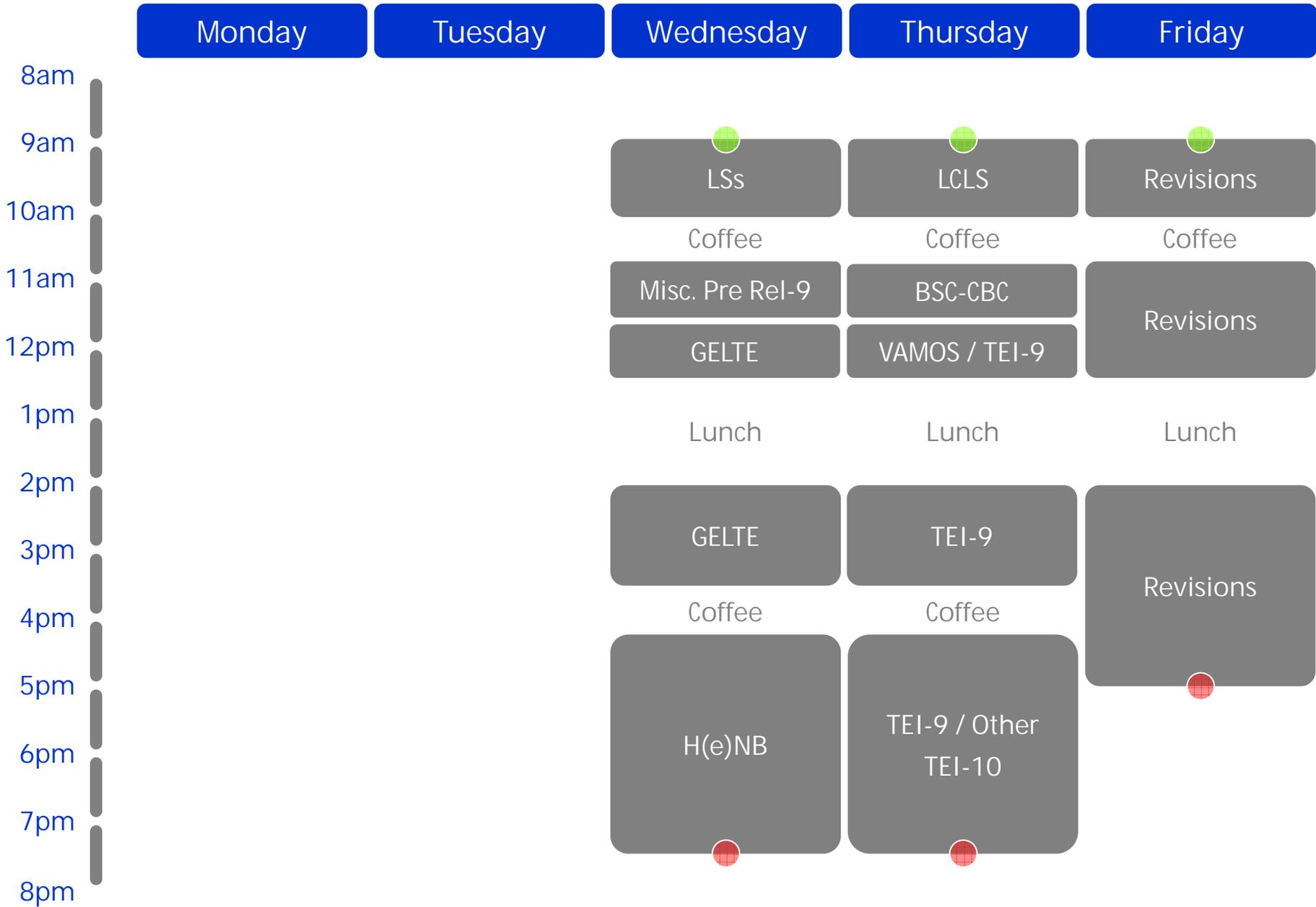
Gert THOMASEN (MCC)

# Incoming Contributions



Total: 102

Total (End): 189



# Pre-Release 9 (1/2)

- PS Handover (Rel-6+)
  - G2-100029, G2-100030, G2-100031, G2-100032 CRs 44.060 agreed: CSN1 corrections
- EGPRS2 (Rel-7+)
  - G2-100107, G2-100108, G2-100109 CRs 44.060 agreed: correction to SPB field
- Misc. (Rel-7+)
  - G2-100047, G2-100048, G2-100049 CRs 44.060 agreed: CSN1 corrections
  - G2-100156, G2-100081 CR 44.060 postponed (Rel-7+) to indicate that FTA capability need to be taken into account in addition to the multislot class when determining the validity of an assigned multislot configuration
    - G2-100082 44.060 postponed (Rel-9): applicability to EFTA as well
    - The proposal is technically endorsed by GERAN2
    - The related redundancy of some abnormal cases need to be addressed for GERAN#45

# Pre-Release 9 (2/2)

- Misc. (Rel-8)
  - 3G Frequency Indexing
    - Discussed in **G2-100033, G2-100079, G2-100104, G2-100098** (Note that **G2-100098** addressed other items as well that need further discussions)
    - **Agreement** to redefine the UTRAN\_FREQUENCY\_INDEX (introduced in Rel-8) to allow assignment of priorities to frequencies on their own contained in the 3G Cell Reselection list (upper part of the UTRAN\_FREQUENCY\_INDEX used for frequencies on their own)
    - **G2-100157, G2-100158, G2-100159, G2-100160** CRs 44.018, 44.060 agreed

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

- **Misc. corrections**

- **G2-100162, G2-100163, G2-100164, G2-100165** CR 44.018, 44.060 postponed
  - Definition of DEFAULT\_E-UTRAN\_PRIORITY is missing from the CRs and will be included for GERAN#45
- Unique CSN.1 definition of PCID Groups
  - **G2-1000181, G2-100182** CR 44.018 agreed
  - **G2-1000183, G2-100184** CR 44.060 agreed
- **G2-100123, G2-100124** CR 44.060 agreed: removal of an inconsistency between procedural description and signaling for CCN to EUTRAN
- **G2-100125, G2-100126** CR 48.018 agreed: acquisition by the TBSS of INTER RAT HANDOVER INFO in case of PS Handover from E-UTRAN to GERAN when it is not included in the SBSS to TBSS container
- **G2-100076** proposal to include SPID in SBSS/TBSS transparent containers instead of handover signalling – thus aligning with RAN specs (it is transparent to the CN at inter RAT handover in RAN3 specs). This would allow to exchange the SPID between GERAN and UTRAN/E-UTRAN at inter-RAT handover between GERAN and UTRAN/E-UTRAN, while preventing the CN to modify the SPID at handover.
  - Further discussions needed: GERAN#45 decision expected
  - Could the SPID be changed at inter-PLMN Handover?

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

- **Misc. Corrections (cont'd)**

- **Introduction of XXX\_REPORTING\_OFFSET for E-UTRAN**
  - **G2-100142, G2-100143** CR 44.018 agreed
  - **G2-100010, G2-100011** CR 44.060 agreed
  - It will be checked offline whether there is any issue making E-UTRAN\_MULTIRAT\_REPORTING mandatory
  - The use of E-UTRAN\_REPORTING\_OFFSET for 3-bit reporting will also be further investigated at GERAN#45
- **Individual priorities**
  - **G2-100186, G2-100187, G2-100188 G2-100189** CR 44.018, 44.060 agreed: to indicate that individual priorities are inherited also upon cell selection triggering a change of RAT (thus covering the case of “inter RAT cell selection” used in RAN – see LS from RAN2 in G2-100094)
- **E-UTRAN Neighbour cell list construction and modification**
  - **G2-100177, G2-100178** CR 44.060 agreed: definition of how Packet Measurement Order messages modify the EUTRAN NCL
  - **G2-100148, G2-100149** CR 44.060 postponed: handling of omitted IEs and fields in Packet Measurement Order messages used to modify the EUTRAN NCL

# Rel-9 – VAMOS

- **G2-100070** on Signaling VAMOS mode
  - GERAN1 decision needed whether there is a need for signalling VAMOS mode or not
  - Definition of signaling is of course feasible in GERAN2 *if* seen needed by GERAN1.  
The signaling impact need in this case to be minimized

# Rel-9 – Local Call Local Switch

- No LCLS CRs will be agreed before GERAN#46 in May 2010, pending conclusion in other groups
- **Discussions**
  - Review of the CT4 TR
  - Definition of concepts and principles to reach a common terminology and a common understanding between different groups
  - Agreement to use the Global Call Reference (GCR) in the BSC for LCLS call identification and correlation. The usage of the BSC Node ID in the CN is for decision in CT4
  - **G2-100072, G2-1000134**: discussion on handover scenarios (incl. failure cases) and the trigger for the originating BSS to “break” (release) the “LCLS” aspect of the call at inter BSS HO, whilst guaranteeing that the MS can go back upon HO failure – further work needed
  - LS to CT4 et al. in **G2-100185**
- **G2-100073** CR 48.103 postponed
- **G2-100074** CR 48.008 postponed

# Rel-9 – TEI9 (1/5)

- **Misc.**

- **G2-100155** CR 44.060 agreed on usage of “compressed” coding of radio access capabilities for MS RAC 2 IE in Additional MS Radio Access Capabilities message
- **Cell re-selection enhancements** (as discussed by RAN groups – See LS in GP-092212)
  - Draft CRs presented to 44.018 and 44.060 in **G2-100042** and **G2-100043** – however a conclusion is first needed in RAN groups then GERAN1 before changes are made in GERAN2
  - Note that Rel-9 is a “?”
- **G2-100179** CR 44.060 agreed: PACKET PSI STATUS “optional” (linked to P-channels decision in GERAN#44)
- **G2-100075** CR 48.008 agreed: introduction of the missing IE identifier for the 128-bit Kc (support of A5/4)

# Rel-9 – TEI9 (2/5)

- SON

- **GERAN#44**: Discussion on incoming LS from RAN3 (GP-091890) whether exchanging cell load information between RATs for load balancing could be done either through piggy-backing in handover signalling, or by means of existing (GERAN) RIM procedures. Besides impact on GERAN networks, an aspect to take into account is the timing aspects of the information to exchange.
  - LS to RAN3, RAN cc CT4, SA2 in [GP-092465](#)
  - **GP-092391** CR 48.018 postponed: on Exchanging cell load information between RATs by RIM procedure was presented for information, following LS from RAN3
- **GERAN2#44bis**
  - Incoming LS from SA2 with no decision highlighted
  - Feedback from RAN3 still pending before a decision can be taken in GERAN2 as to whether to use RIM or piggy-backing in Handover Signaling
  - **G2-100044** CR 48.018 postponed to include a new RIM application

# Rel-9 – TEI9 (3/5)

- **Mix of TTI for a given TBF**

- **G2-100085** detailing Uplink Allocation for MTTI, with RTTI USF mode with extended dynamic allocation
- Concerns reiterated on the achievable gains (in particular in uplink) with MTTI vs. existing mechanisms however no objection was raised on the proposal
- **G2-100180, G2-100170** CRs 44.060 agreed
- **G2-100154** Draft CR 24.008 endorsed (conditionally to other CRs)
  
- Approval in Release 9 recommended

# Rel-9 – TEI9 (4/5)

- **Dynamic Timelsot Reduction**

- Further evaluation of the gains shown in **G2-100065**. It was clarified that an example model was used, but other examples could yield different results
- A number of alternatives are still under discussion and convergence is encouraged for GERAN#45: **G2-100141, G2-100083** CR 44.060 potsponed
- **G2-100067** draft CR 24.008 noted

- **Optimized DRX mode**

- Further input on the topic in **G2-100007** proposing that instead of introducing “Optimized DRX mode” and associated signaling, the existing parameter ((non)DRX\_TIMER\_MAX set to 0) could achieve the same goal, however concerns raised that this would affect the operation of all terminals while many networks today do not set this parameter to ‘0’ but instead several seconds (even if supporting Extended UL TBF mode).
- Use of MS setting NON\_DRX\_TIMER = 0 at GMM was also highlighted as an alternative but a concern was raised that the network would not have a control over this unlike Optimized DRX mode itself
- Further work needed
- **G2-100127** Proposing selective Extended UL TBF mode activation per terminal as opposed to cell-basis, based on QoS. Need questioned.

# Rel-9 – TEI9 (5/5)

- **Enhanced Multiplexing for Single RLC entity**

- GERAN#44:

- Some discrepancies of understanding remain on how EMSR works or should work which need to be alleviated
- Gains are still unclear and should be quantified to better justify the proposal

- GERAN2#44bis

- Quantification of the gains have again been requested by a number of companies to: expected for GERAN#45
- It was clarified that EMST is necessary for EMSR
- Companies invited to provide comments until GERAN#45
- **G2-100026, G2-100027** CR 44.060, 44.018 postponed
- **GP-100028** Draft CR 24.008 noted

# Rel-9 – H(e)NB Enhancements (1/2)

- **GERAN#44:** Working Assumptions and Open issues in GP-092382
  - Open issues listed in WA#4, WA#7, WA#8, WA#9 and WA#10 are still open and need to be addressed
- **G2-100084 on Mobility to CSG cells**
  - GERAN2 confirmed there is no autonomous cell reselection to CSG cells when in NC2 mode
- **G2-100051, G2-100053** CRs 44.018 postponed: provision of information for inbound mobility to CSG
- **G2-100012** proposal to introduce a timer to prevent frequent acquisition of CSG cell system information: timer started once a CSG cell's sys info is read and no further CSG sys. info reading is done while the timer is running
  - Concerns raised on the need for such timer in particular in case the CSG cell is found as being not allowed: the MS would not be able to do any further CSG reading while the timer is running. This could thus alter CSG mobility
- **G2-100077, G2-100078** CRs 48.008, 48.018 postponed: handover to CSG cells
  - Companies invited to review the CRs offline

# Rel-9 – H(e)NB Enhancements (2/2)

- **Measurement reporting for CSG Cells**

- **G2-100050, G2-100062**

- Dedicated mode / DTM: routing parameters are always reported
- Packet transfer mode, PS Handover supported
  - Routing parameters are always reported except in NCO when CCN disabled: i.e. PCCN not sent
- Packet transfer mode, PS Handover not supported
  - Routing parameters not needed
  - Single bit reporting vs Physical layer parameters tbd
- CSG ID needed in the CN for access control. However the BSS might not have it in which case it would need to obtain it from either O&M or the MS: further work needed

- **G2-100052, G2100061, G2-100053** CRs 44.018, 44.060 postponed

- **MS Capabilities**

- **G2-100062, G2-100063** further discussions needed

# Rel-9 – BSC/CBC Interface

- **Supervision of the BSC/CBC Interface**

- **G2-100016:** proposal agreed to include a *Keep Alive* procedure in the CBS Protocol (48.049) to verify the CBSP communication path between the BSC and the CBC
  - **G2-100136** CR 48.049 agreed

- **Misc. corrections**

- **G2-100018** CR 48.049 agreed Introduction of a length indicator for CBSP messages
  - (Note that the Keep Alive signalling is consistent with this CR)
- **G2-100019** CR 48.049 agreed: Correction to WRITE-REPLACE FAILURE message

# Rel-10 – TEI-10

- **G2-100089** addressing potential wording issues for TFI assignment in 44.060
  - It is understood that in single TBF operation (i.e. no MTBF), the PACCH/D of an UL TBF comes on a timeslot assigned for that TBF (i.e. same TN as uplink timeslot used by that TBF) – whether a clarification CR is needed is FFS

# Outgoing Liaison Statements

- **G2-100185** Reply LS to CT4, SA3 cc SA3-LI, GERAN on the Local Call Local Switch Feasibility Study
- **G2-100106** LS to GERAN3 cc RAN5, GCF-CAG, PTCRB on Progress on P-channels removal

# Future meetings

- GERAN2#45                    2 – 4 March 2010                    Berlin
- GERAN2#45bis                21 – 23 April 2010                Copenhagen, Denmark
- GERAN2#46                    18 – 20 May 2010                Korea, TBC