

3GPP TSG GERAN2#45

Berlin, Germany, 2nd – 4th March 2010

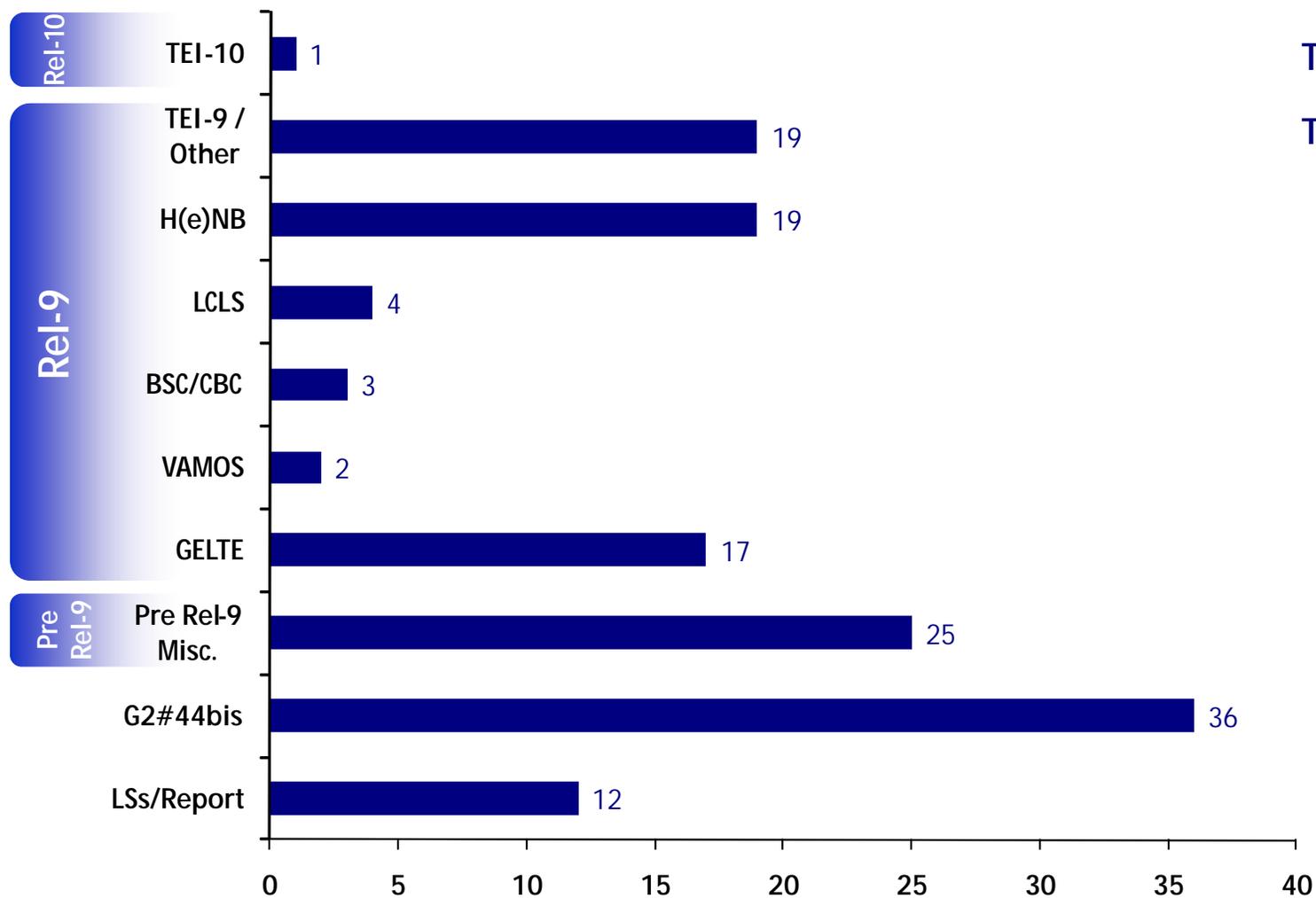
Chairman's Summary

NOKIA

Guillaume SEBIRE (Chairman)

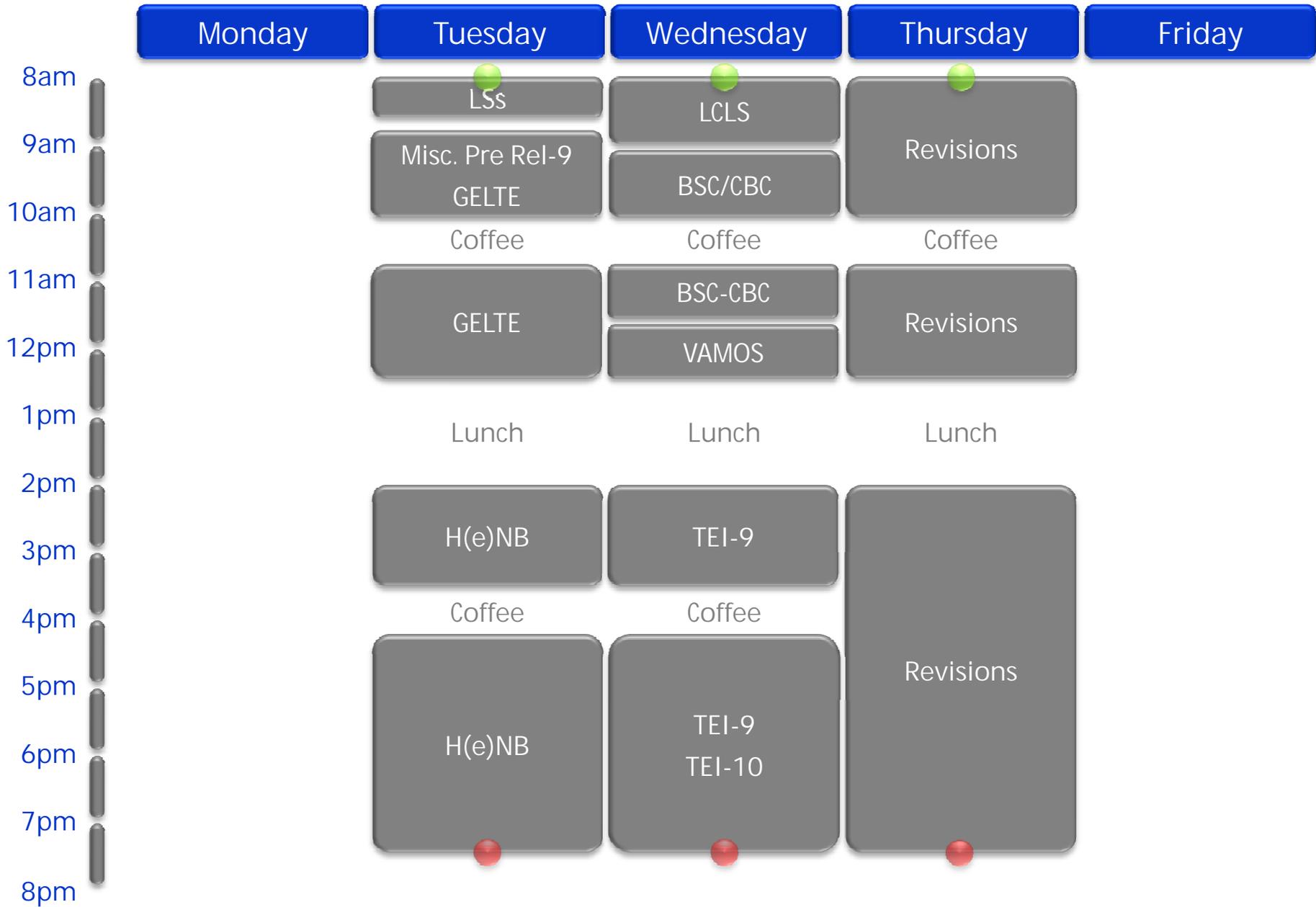
Gert THOMASEN (MCC)

Incoming Contributions



Total: 102 (138)

Total (End): 230



Pre-Release 9 (1/2)

- **Misc. (Rel-6+)**

- **GP-100424** Draft CR 24.008 endorsed: Correction to CSN1 coding of MS RAC IE and inclusion of the tabular format of the IE structure
 - LS to CT1 in **GP-100382**
- **GP-100315, GP-100316, GP-100317, GP-100383** CR 44.318 agreed: correction to the description of the structure of the IE Type and Length fields (all are cat "F")

- **Misc. (Rel-7+)**

- **GP-100384, GP-100442, GP-100443** CRs 44.031 agreed: corrections to the conditions for inclusion of positioning capabilities in the Position Capability Response message
- **GP-100311, G2-100312** CR 44.060 agreed 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
 - **GP-100313** 44.060 agreed (Rel-9): applicability to EFTA as well
- **GP-100423, GP-100407, GP-100408** CR 44.060 agreed to unambiguously define in procedural description that the training sequence code (TSC) belongs to the frequency parameters and thus is taken into account in abnormal cases pertaining to frequency parameters

Pre-Release 9 (2/2)

- Misc. (Rel-8)

- ETWS

- [GP-100303](#) proposal endorsed to allow reception of Warning Notifications in limited service state
 - [GP-100529](#), [GP-100506](#) CR 43.022 endorsed (noting some editorials are needed)

- 3G Ncell Parameters

- Frequency Indexing (to support priority reselection)

- [GERAN2#44bis 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)
 - [GP-100134](#), [GP-100135](#), [G2-100447](#), [G2-100607](#) CRs 44.060, 44.018 agreed
 - [GP-100389](#), [GP-100390](#) CRs 44.018 agreed: clarifications to frequencies on their own SI2quater

- UTRAN CSG cells

- [GP-100431](#), [GP-100432](#), [GP-100433](#), [GP-100434](#) CRs 44.018, 44.060 agreed: correction to PSC definition for UTRA TDD. These CRs also ensure there is a single definition of (UTRA) PSC groups IE, in 44.060

Rel-8 – GERAN/E-UTRAN Interworking (1/3)

- Misc. corrections

- **GP-100191, GP-100192, GP-100193, GP-100194** CR 44.018, 44.060 agreed
 - Definition of DEFAULT_E-UTRAN_PRIORITY is included as requested at GERAN2#44bis
- Unique definition of PCID Groups
 - **GP-100397, GP-100398, GP-100399, GP-100400** CRs 44.018, 44.060 agreed
- PCID to TA mapping
 - **GP-100204, GP-100205, GP-100206, GP-100207** CRs 44.018, 44.060 postponed
 - Proposal to allow flexibility to assign "*misc. different groups of misc. different groups of PCIDs on misc. different frequencies*" to belong to the same TA
 - The need for this additional flexibility is unclear while the current specifications allow misc. different groups of PCIDs on misc. different frequencies to belong to the same TA
- E-UTRAN NCL modification (PACCH)
 - **GP-100445, GP-100446** CR 44.060 agreed: handling of omitted IEs and fields in Packet Measurement Order messages used to modify the EUTRAN NCL

Rel-8 – GERAN/E-UTRAN Interworking (2/3)

- **CSG Cells**

- Common understanding that implementation-specific means are allowed to determine a cell is a CSG cell (besides using PSC/PCI split information)
- MS shall not report any measurements for cells known to be CSG cells, however it was not clear when CCN is enabled, whether the MS is allowed to autonomously reselect a CSG cell or not (and thereby indicate the target CSG cell in the PCCN message)
 - Agreement that when CCN is enabled, the MS will also indicate in PCCN a CSG cell if it is a reselection candidate
 - Note that a PCCO following a PCCN may result in a PCCF
 - Note: NC2 can also be used to prevent reselection to CSG cells
- **GP-100437** CR 44.060 agreed

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

- **SPID**

- **GP-100284, GP-100359** on SPID handling discussed
 - Proposal to include SPID in SBSS/TBSS transparent containers instead of handover signaling – thus aligning with RAN specs **not agreed**. 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.
 - Note that GERAN specs and RAN specs are not aligned: in RAN specs the SPID is exchanged between RAN nodes transparently to the CN at inter RAT handover
- **GP-100285** CR 43.129 noted
- **GP-100286, GP-100287, GP-100288** CR 48.008, 48.018 postponed
- LS to CT1, CT4, RAN3 cc SA2 in **GP-100603** to indicate the discrepancies between GERAN and RAN specs, and the CN impact of GERAN solution

Rel-9 – VAMOS

- **GP-100278** on Signaling VAMOS mode in downlink
 - GERAN1 decision needed whether there is a need for signaling 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
 - **GP-100360** CR 44.018 postponed

Rel-9 – Local Call Local Switch

- No LCLS CRs will be agreed before GERAN#46 in May 2010, pending conclusion in other groups
- **GERAN2#44bis**: 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
- LS from CT4 received (GP-100419) indicating it is not able to do any normative LCLS work in Rel-9 due to (s)low progress
 - Response LS in **GP-100450**
- **GP-100358** on Call correlation in the BSC proposing to use the SCCP address of the BSS to construct the GCR: misc concerns were raised
- **GP-100084** CR 48.103 postponed
 - **GP-100322** noted (comments to GP-100084)
- **GP-100085** CR 48.008 postponed

Rel-9 – TEI9 (1/5)

- **EFTA**

- **GP-100336** on misc. changes for EFTA
 - Handling of pre-emptive retransmissions
 - **GP-100337** CR 44.060 agreed to prevent prioritizing uplink Tx over downlink Rx when pre-emptive retransmissions are occurring (uplink)
 - Handling of poll responses
 - **GP-100338** CR 44.060 agreed to de-correlate the PACCH/U where the response to a poll is sent and the PACCH/D where the poll was received
 - Handling of uplink transmission order
 - **GP-100438** CR 44.060 agreed to define the order in which uplink transmissions shall occur when EFTA is used
- **GP-100342** Draft CR 24.008 endorsed following GERAN1 agreement on GP-100577 (45.002)
 - LS to CT1 in **GP-100439**

Rel-9 – TEI9 (2/5)

- **Misc.**

- **GP-100440** CR 44.060 agreed: removal of ambiguity regarding handling of uplink RLC entities with EMST
- **GP-100425** Draft CR 24.008 endorsed: MTTI capability
 - LS to CT1 in **GP-100601**
- **GP-100282** CR 44.018 agreed on randomization of fill bits in L2 frames: the first octet need to remain "2B" (to cope with some terminals in the field)
 - Note that the change affects networks only. It is recommended this change be taken into use to avoid problems arising
- **GP-100307** Proposing selective Extended UL TBF mode activation per terminal (under control of the network and/or the mobile) as opposed to cell-basis, based on data analysis at RLC/MAC and SNDSCP level
 - More work needed in particular to evaluate the benefits of the proposal and impact on the terminal.
- **GP-100409, GP-100410** CR 44.018, 44.060 postponed: GERAN/E-UTRAN cell re-selection enhancements, pending GERAN1 conclusion

Rel-9 – TEI9 (3/5)

- 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

- GERAN#45

- LS from RAN3 indicating endorsement of the usage of RIM for mobility load balancing (GP-100362, GP-100401) and definition of a container, the content of which is under responsibility of RAN3 and transparent to the BSS
- [GP-100444](#) CR 48.018 agreed
- LS to RAN3 in [GP-100420](#)

Rel-9 – TEI9 (4/5)

- **Dynamic Timelsot Reduction**

- Further evaluation of the gains shown in **GP-100348** and open issues in **GP-100344**
- Differences of opinion remains, though some progress has occurred

- This will now be considered for Rel-10
- **GP-100349** CR 44.060 postponed
- **G2-100067** draft CR 24.008 noted

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

- **GERAN#45**

- Some comprehensive evaluation is provided in **GP-100363** (late)
 - Promising results are displayed in different scenarios however further time was requested to investigate the results
 - Companies invited to provide *timely* comments offline
- Decision expected at GERAN2#45bis
- This will now be considered for Rel-10
- **GP-100333, GP-100334** CR 44.060 postponed
- **GP-100335** Draft CR 24.008 noted

Rel-9 – H(e)NB Enhancements (1/3)

- **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
- **GERAN#45**
 - Further agreements made documented in [GP-100604](#)
- **GP-100164**
 - Proposal re-iterated for introduction of a timer during which no CSG cell reading is done. No support
 - Proposal for introduction of a timer controlling the max. duration during which the MS is allowed to do MIB/SIB reading. No support
- **GP-100346:** Proposal: to add an explicit MIB/SIB reading order from BSS to MS. No support
- **Network capability signaling**
 - Conclusion of discussions summarized in [GP-100604](#)
- **MS Capabilities**
 - Further discussions needed esp. whether Inbound Mobility to CSG cells in connected mode requires the support of handover in the MS

Rel-9 – H(e)NB Enhancements (2/3)

- **Measurement reporting for CSG Cells**

- **GERAN#44bis:**

- 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
 - GERAN#45: no agreement

- **GP-100165** Proposal to skip additional reporting of measurement results for CSG cells if reporting occurred already once. A single bit is proposed to indicate a previously reported CSG cell is still valid
 - Common view that the proposal cannot work given the single bit cannot be used by the network to determine exactly which CSG cell was previously reported
- **GERAN#45:** discussion that only the Routing Parameters would be reported (along with measurement results) – See [GP-100604](#)

Rel-9 – H(e)NB Enhancements (3/3)

- **PS Handover**

- GP-100415 CR 43.129 technically endorsed
 - GP-100416 CR 48.008 postponed – editorials
 - GP-100417 CR 48.018 postponed – technically endorsed
 - The CRs are technically correct, but will be submitted for approval once a full set of CRs is ready for H(e)NB Enhancements
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- At this stage no single GERAN2-related CR has been approved for this work item
 - Completion due at GERAN#46, May 2010
 - Companies are strongly encouraged to work together offline to progress the work

Rel-9 – BSC/CBC Interface

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

- **GERAN2#44bis**: 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
- **GP-100418** CR 48.049 agreed

- **Misc. corrections**

- **GP-100329** CR 48.049 agreed Introduction of a length indicator for CBSP messages
 - (Note that the Keep Alive signalling is consistent with this CR)
- **G2-100330** CR 48.049 agreed: Clarifications and improvements to the handling of CBS messages of category type “background”

Rel-10 – TEI-10

- **G2-100430** CR 44.060 agreed: 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)

Outgoing Liaison Statements

- **GP-100382** LS to CT1 on Correction to MS RAC IE coding
- **GP-100603** LS to RAN3, CT1, CT4 on Transfer of SPID during (inter-RAT) handover
- **GP-100420** LS to RAN3 cc RAN on RAN3 agreement concerning implementation of inter-RAT cell load reporting
- **GP-100450** LS to CT4 cc CT, SA3, SA3-LI on the Local Call Local Switch Feasibility Study
- **GP-100601** LS to CT1 on Multiple TTI (MTTI) TBF capability
- **GP-100439** LS to CT1 on Interpretation of Multislot Parameters for EFTA

Future meetings

- GERAN2#45bis 21 – 23 April 2010 Copenhagen, Denmark
- GERAN2#46 18 – 20 May 2010 Jeju, Korea