3GPP TSG GERAN2#43

Chairman's Summary

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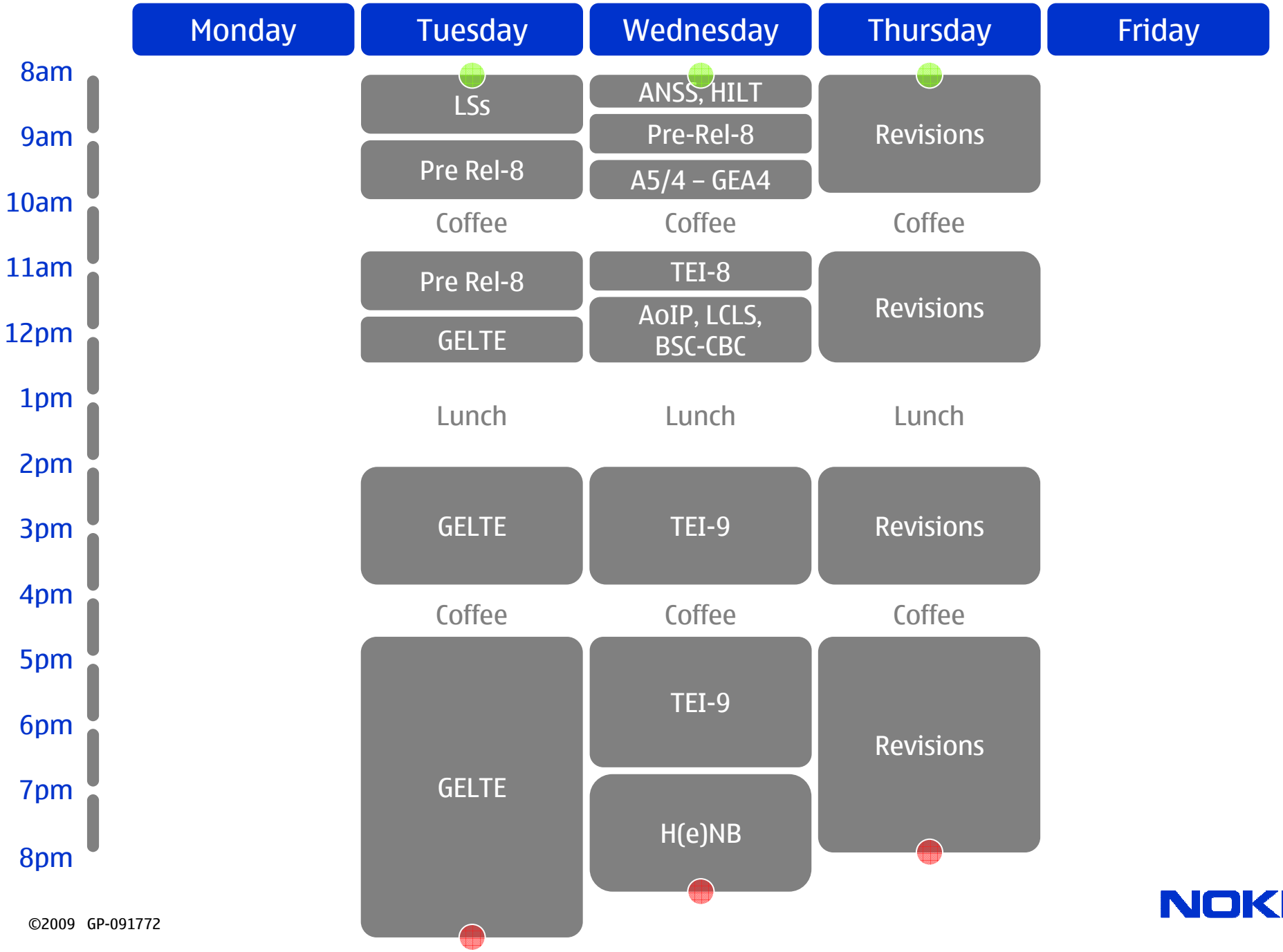
Contributions

- **In:** 157
- **Out:** 296



Pre-Release 8 (1/3)

- **WB AMR (Rel-5+)**
  - Some wrongly-implemented MSCs are not able to handle the signalling of WB-AMR capability in Bearer Capability IE at call set-up of the MS
  - Proposal to introduce a new bit in SI3 to order the MS not to indicate its WB AMR capabilty at call set-up
    - A number of concerns raised
      - Requires changes to BSS and MS implementation
      - The proposal is not future proof i.e. if a new capability is introduced that need to be indicated at call set-up the same problem will happen again
      - Cases of handover need to be investigated
        - 3G > 2G handover
        - 2G > 2G inter MSC handover
      - Note: no known legacy MSs on the field supporting WB AMR (in GERAN)
  - A solution in Rel-5 need to be investigated
  - **GP-091746** LS to RAN2/CT1
  - **GP-091372, GP-091373, GP-091374, GP-091375, GP-091376** CR 44.018 postponed

Pre-Release 8 (2/3)

- **GAN (Rel-6+)**
  - **GP-091653, GP-091654, GP-091655, GP-091696** CR 44.318 agreed: correction to Information Elements coding and octet boundaries

- **Misc. (Rel-7+)**
  - **GP-091405** CR 44.018 agreed: correction to CSN1 coding of spare bits in RR PUA and RR PDA. Note that Rel-8 and Rel-9 CRs (not mirrors) are in **GP-091406** and **GP-091407**
  - **GP-091408** CR 44.060 agreed: correction to CSN1 in MTBF messages. Note that Rel-8 and Rel-9 CRs (not mirrors) are in **GP-091643** and **GP-091651**
  - **GP-091419, GP-091420, GP-091421** CR 44.060 agreed: addition of NPM Transfer Time for both UL and DL TBFs in Packet Timeslot Reconfigure message

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Pre-Release 8 (3/3)

- **EGPRS2**
  - **GP-091660, GP-091691, GP-091692** CR 44.060 agreed: correction to define that the uplink RLC/MAC header for MCS-5 and MCS-6 applies with EGPRS2
- **DCDL**
  - **GP-091528, GP-091529, GP-091530** CR 44.018 agreed: correction on conditions of inclusion of frequency parameters in PACKET ASSIGNMENT message
- **LATRED**
  - **GP-091525, GP-091526** CR 44.060 agreed: correction to LI field for NPM following agreement on corrections for LLC PDU start indication in previous meetings
    - **GP-091527** CR 44.060 agreed: correction to LI field for NPM and UM (Rel-9)
  - **GP-091534, GP-091693, GP-091536** CR 44.060 agreed: transmission of EGPRS PDAN (Type 2) when a PAN cannot be sent due to lack of UL TBF on the uplink PDCH corresponding to downlink PDCH where the poll was received
  - **GP-091399, GP-091400, GP-091401** CR 44.060 agreed: removal of ambiguities with RTTI assignments and corresponding PDCH-Pair configurations
  - **GP-091433, GP-091695, GP-091435** CR 44.060 agreed: definition of min Round-Trip Time value the MS shall assume between the transmission of an uplink block and the reception of PAN in order to prevent considering too early NACK which would trigger unnecessary retransmissions
    - The value “2” will be further checked offline
  - **GP-091438, GP-091439, GP-091440** CR 44.060 agreed:
    - Defines transmission of a PDAN instead of PAN when all corresponding data blocks in V(B) are TENTATIVE_ACK

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

- **Priorities**
  - GP-091537, GP-091700, GP-091538, GP-091699 CR 44.018, 44.060 agreed: to allow activating a frequency by means of an individual priority i.e. the common priority is optional on BCCH
  - GP-091539, GP-091539, GP-091540, GP-091544 CR 44.018, 44.060 postponed: clarification that "default" is only a signaling optimization of the message in which it is received and is not meant to last in time (i.e. in case a frequency becomes listed later on, the "default" no longer applies)
  - GP-091701, GP-091702, GP-091703, GP-091704 CR 44.018, 44.060 agreed: removal of ambiguity regarding handling of individual and common priorities
    - Further alignment work between 44.018/44.060/45.008 may be needed
  - Coding of individual priorities
    - Misc. proposals which will delay (order of seconds) cell selection following CHANNEL RELEASE including "cell selection indicator after release of all TCH and SDCCH" for they require acquisition of SI2quater before cell selection can occur. Current 45.008 requirement is that the MS shall camp on an indicated GSM/UTRAN/EUTRAN cell as soon as possible
    - Note the same problem applies with default priorities
    - ➲ GERAN1 guidance needed
    - GP-091697, GP-091443 CR 44.018 postponed
    - GP-091233, GP-091234 CR 44.060 postponed

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

- **Misc.**
  - GP-091720, GP-091721 CR 44.060 agreed: deletion, upon cell change failure, of all parameters in PCCO (incl. individual priorities) for operation in the target cell
  - GP-081591, GP-091592 CR 44.018 agreed: misc. corrections
  - GP-091593, GP-091594 CR 44.060 agreed: misc. corrections
  - GP-091392 CR 48.018 agreed: eNB identifier to unambiguously refer to the Global eNB ID defined in 3GPP TS 36.413
  - GP-091415, GP-091416, GP-091417, GP-091418 CR 44.018, 44.060 agreed: support of PACKET SI STATUS to indicate reception status of SI2quater including E-UTRAN information
  - Open issue on MS not supporting CSG: any needed knowledge of CSG info (e.g. PSC/PCI split)?
- **NCell List and Measurements**
  - PMO effect on NCL to be investigated
  - **GP-091186:** the following proposals are endorsed
    - Proposal 1: PMO acts on the NCL constructed from BCCH
    - Proposal 2: Measurement Control can disable measurement & reporting on given frequencies. No need for removing frequencies with PMO
    - Proposal 3:
      - If PMO does not give NAC/AC then the set received in broadcast messages is used
      - If PMO sends a new NAC/AC then the new set overrides the old values

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

- **NCell List and Measurements (cont'd)**
  - **GP-091596** CR 44.018 agreed: misc. corrections on construction of E-UTRAN NCL and SI2quater (Rel-9 mirror GP-091723 to be seen in plenary)
  - **GP-091749, GP-091750** CR 44.060 agreed: misc. corrections on construction of E-UTRAN NCL and messages
  - **GP-091708, GP-091709** CR 44.018 agreed: definition of QSearch_C_E-UTRAN_Initial independent of QSearch_I
  - **GP-091710, GP-091751, GP-091729, GP-091730** CR 44.018, 44.060 agreed: corrections to usage of "*BA index*" parameters for E-UTRAN NCL construction and measurement parameters acquisition. Agreement to use 3G_BA_IND for identifying changes to E-UTRAN NCL parameters and/or measurement parameters, thus avoiding parsing SI2quater messages to find E-UTRAN_BA_IND. Whether E-UTRAN_BA_IND will be maintained (to address cases when 3G information changes but not E-UTRAN) will be discussed further. MP_CHANGE_MARK is not used for E-UTRAN
  - **GP-091741, GP-091752** CR 44.018 agreed to unambiguously define the acquisition of CSG information

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PS Handover and GERAN/E-UTRAN Interworking

- **START PS, and UE RAC availability**
  - INTER RAT HANDOVER INFO (which provides UE RAC) is necessary in the BSS for performing a Handover back to UTRAN once in GERAN
  - As indicated by SA3 *recently*, provision of INTER RAT HANDOVER INFO by RNC may cause START PS mismatch which in turn causes subsequent (inter-RAT) Handover Failure
  - The mechanism ("PS HO COMPLETE ACK") to acquire INTER RAT HANDOVER INFO in the BSS from the SGSN will be introduced to enable handover back to UTRAN while ensuring a correct START_PS value will be introduced. An indication will also be provided along with the INTER RAT HANDOVER INFO to indicate it can be trusted (i.e. acquired with the mechanism)
    - Optional in Rel-6 and Rel-7
      - GP-091384, GP-091386 CR 43.129 noted. GP-091385, GP-091387 CR 48.018 postponed
    - Mandatory in Rel-8
      - GP-091382 CR 43.129 noted. GP-091383 CR 48.018 postponed
  - Transmission of INTER RAT HANDOVER INFO to be mandated in Rel-8 specifications
  - LS to RAN2 in **GP-091745**

  - Provision of E-UTRAN UE RAC
    - **GP-091251** CR 43.129 noted: provisioning of E-UTRAN UE RAC between radio access network nodes

TEI-8

- **GP-091210** CR 49.031 rejected: proposal to change the meaning of the "positioning method" code-point for U-TDOA to cover other LMU-based technologies not supported in 3GPP standard
- **GP-091610, GP-091641** CR 44.060 agreed: correction to wrong implementation of a CR (GP-081290)
- **GP-091406** CR 44.018 agreed: correction to CSN1 coding of spare bits in RR PUA and RR PDA. Note that Rel-9 version (not mirror) is in **GP-091407**
- **GP-091643** CR 44.060 agreed: correction to CSN1 in MTBF messages. Note that the Rel-9 version (not mirror) is in **GP-091651**

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ANSS (Rel-8)

- **GP-091171** CR 44.031 agreed: correction to pseudo-segmentation rules for GANSS Generic Assistance Data

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Rel-8 – AoIP

- Misc. minor corrections to 48.103 agreed in **GP-091481, GP-091377, GP-091378**

Rel-9 – Hybrid Location

- GP-091688 CR 43.059 noted
- GP-091689 CR 48.071 postponed
- Further work needed on expected BSS/SMLC behavior and corresponding procedures

Rel-9 – Local Call Local Switch

- **CT4 TR in 23.889 (v0.2.0)**
  - Clarify to CT4 that
    - GERAN2 aspects shall be defined by GERAN2 in GERAN specifications which take precedence – Conclusion on these aspects is under GERAN2 responsibility
    - GERAN2 aspects in CT4 TR are understood as "*Informative*" – though a basis for the work in GERAN
    - GERAN2 internal aspects are under full responsibility of GERAN2
  - LS in **GP-091747**
  - **GP-091753** "Draft" CR to 23.889 noted (**Plenary**)
- **GP-091473** Draft CR 48.008 noted

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Rel-9 – Support of A5/4 – GEA4

- **GP-091644** CR 44.018 agreed: introduction of A5/4
- **GP-091645** CR 48.008 agreed: introduction of A5/4
- Double-check whether any clarification is needed in 3GPP TS 48.018

➲ Consistent security level across 3GPP RATs

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Rel-9 – TEI-9 (1/4)

- **Misc.**
  - GP-091524 CR 44.060 agreed: correction to SI_CHANGE_FIELD description in PSI13 (alignment with 44.018)
  - GP-091407 CR 44.018 agreed: correction to CSN1 coding of spare bits in RR PUA and RR PDA.
  - GP-091651 CR 44.060 agreed: correction to CSN1 in MTBF messages.
  - GP-091650 CR 44.018: correction to Cell Identity in SI4 Rest Octets and VGCS Ciphering Parameters IE
  - GP-091441 CR 44.018 agreed: editorial correction to MS behavior for reception of SI5bis messages
  - GP-091380 CR 44.031 agreed: Differential corrections for GNSS
    - One company indicated there is no value brought by this proposal
  - GP-091180 CR 44.018 agreed: minor corrections to channel description 2 and 3 IE
  - GP-091642 CR 44.060 agreed: misc. corrections to freq related parameters
  - GP-091724 CR 44.318 agreed: to allow the MS not to report GSM(3G) cells in GAN if HO from GAN to GSM(3G) is not supported
  - GP-091725 CR 44.318 agreed: editorial correction

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Rel-9 – TEI-9 (2/4)

- **Misc. (cont'd)**
  - GP-091368 CR 44.018 postponed without presentation: correction to Mobile Time Difference postponed
    - Companies invited to check the proposal offline
  - GP-091403, GP-091404 CR 44.060, 44.018 postponed: optimized DRX mode
    - Proposal to allow *not* entering non DRX when transiting from packet transfer mode to packet idle mode when delayed TBF release and/or ext UL TBF mode are used as going to packet idle mode is an indication data is "unlikely" to be incoming soon.
    - Gains to be clarified
  - GP-091327 CR 43.064 noted: stage 2 description for EFTA
    - GERAN2 does not really see a need for introducing EFTA in stage 2 at all

Rel-9 – TEI-9 (3/4)

- **AoIP Enhancement**
  - **GP-091474** proposes a “transaction ID” to allow handling of late responses from MSC to INTERNAL HANDOVER REQUIRED in case of internal BSS handover (with MSC support), and to prevent abortion of the handover preparation.
    - **No support expressed for the proposal**
- **EMST (Enhanced Multiplexing for Single TBF)**
  - **GP-091430** CR 44.060 agreed
  - **GP-091431** CR 44.018 agreed
  - **GP-091656** Draft CR 24.008. LS to CT1 in **GP-091657**
  - Objections raised from Ericsson/STEricsson
  - Further RLC engine optimization such as described in **GP-091361** will be investigated as a general enhancement. GP-091595 CR 44.060 postponed
- **Dynamic Timeslot Reduction**
  - **GP-091444** on Dynamic Timeslot Reduction outlines a number of considerations to be taken into account should DTR be standardized
  - Further clarification of the gains was requested
  - Further work is needed
  - **GP-091422** CR 44.060 postponed
  - **GP-091423** Draft CR 24.008 noted

Rel-9 – TEI-9 (4/4)

- **Mix of TTI for a given TBF**
  - **GP-091350** outlines benefits of MTTI while suggesting further simplification of the original proposal
    - Some further clarifications on interaction with FANR are expected
  - **GP-091193** outlines issues with MTTI in particular with UL RTTI allocations that require further investigation
  - Work in progress
- **DTX for conversational services** (Supporting UL PAN transmission in DTX)
  - GP-091182 provides further analysis of the delays involved with PB
    - Further investigations needed
  - GP-091325 proposal for a new fast feedback channel
    - Further analysis needed – multiplexing, delay and GERAN1-related

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Rel-9 – H(e)NB Enhancements

- MS allowed to do MIB/SIB reading in connected mode
- Further discussion needed on the validity of the information acquired/reported by the MS i.e. *{(PSC/PCI), Freq, Routing Parameters}*
- No mapping table *{{(PSC/PCI), Freq, Routing Parameters}$_1$;…; {(PSC/PCI), Freq, Routing Parameters}$_n$}* expected in the BSS
  - Measurement Reporting of a CSG cell need to identify the CSG cell itself
- Measurement reporting for CSG Cells
  - Contains a number of proposals that require further investigation as work progresses on the definition of the concept for CSG mobility in connected mode

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Rel-9 – BSC/CBC Interface

- **GP-091758** Draft 3GPP TS 48.049 on Cell Broadcast Service Protocol
  - Proposed to be raised to v1.0.0 in closing plenary

- Note that the relation to ETWS and 3GPP TS 23.041 may need to be clarified

Outgoing Liaison Statements

- **GP-091522** LS to CT4 on IWF Rate Change Procedure with AoIP
- **GP-091755** LS to CT4 on BSS internal handover procedure with MSC support
- **GP-091745** LS to RAN2, SA3 LS on INTER RAT HANDOVER INFO during inter-RAT PS Handover
- **GP-091756** LS to RAN2 on PS handover without data radio bearers
- **GP-091754** LS to RAN2, CT1 on MS/UE Indication of 2G AMR WB capabilities
- **GP-091657** LS to CT1 on EMST Support

- **GP-091747** LS to CT4, SA3-LI on progress of Local Call Local Switch Feasibility Study (Plenary)

Future meetings

• **GERAN2#43bis**	**21 – 23 October 2009**	**Sophia Antipolis**
• GERAN2#44	17 – 19 November 2009	Sophia Antipolis
• GERAN2#45	2 – 4 March 2010	Berlin

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