3GPP TSG GERAN2#40

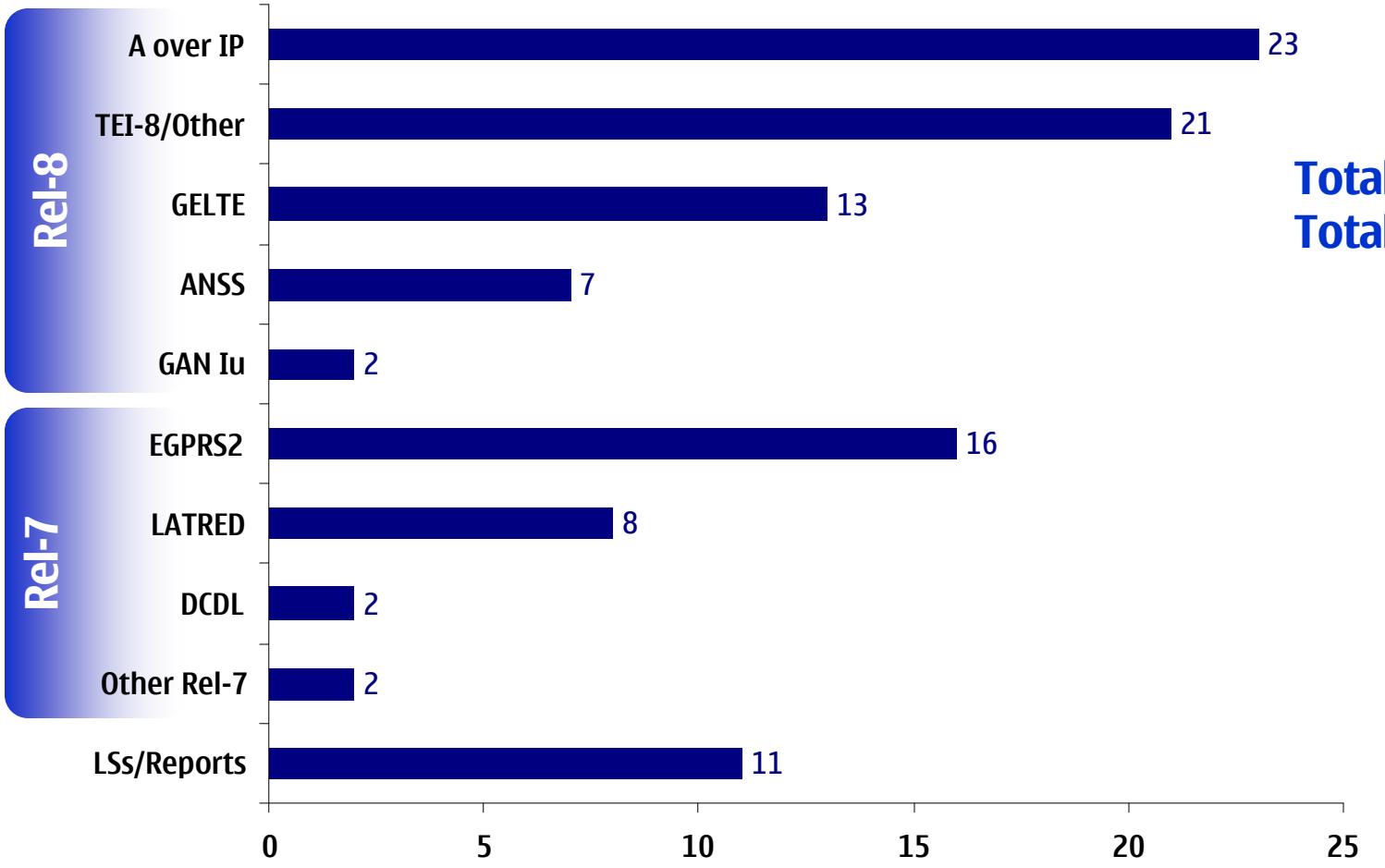
Miami, FL, USA, 18.XI – 20.XI, 2008

NOKIA

Chairman's summary

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

Incoming Contributions per Agenda Item



Total (Start): 105 (133)
Total (End): 227

	Monday	Tuesday	Wednesday	Thursday	Friday
8am		LSs, DCDL LATRED, Other Rel-7	GELTE	Revisions	
9am					
10am					
11am		Coffee	Coffee	Coffee	
12pm		GAN Iu / ANSS / TEI-8	GELTE AoIP	Revisions	
1pm		Lunch	Lunch	Lunch	
2pm		EGPRS2	AoIP	Revisions	
3pm					
4pm		Coffee	Coffee	Coffee	
5pm		TEI-8	AoIP	Revisions	
6pm		Other Rel-8			
7pm					
8pm					

NOKIA

Rel-7 – Dual Carrier Downlink

- **GP-081642, GP-081643** CR 44.060 approved: clarification of USF mapping

NOKIA

Rel-7 – EGPRS2 (RED HOT / HUGE)

- **GP-081791, GP-081792** CR 44.060 approved following GERAN1 endorsement: removal of inconsistencies for transitions between EGPRS2-A/EGPRS2-B and EGPRS in uplink
- **GP-081468, GP-081873** CR 44.060 approved: addition of new CPS values for *downlink* header types 2 and 3, to allow MCS-6 retransmission in EGPRS2-A (transition EGPRS > EGPRS2-A) and to allow retransmissions with EGPRS MCSs of blocks originally using DAS-12, DAS-10 and DAS-7 (transition EGPRS2-A > EGPRS)
- **GP-081821, GP-081822** CR 44.060 approved: allow header types 1 and 2 in downlink after inclusion of MCS-6 to MCS-9 for EGPRS2 TBF
- **GP-081824, GP-081825** CR 44.060 approved: correction to Length Indicator field to reflect larger data block size (82 bytes) allowed by EGPRS2-A in the downlink
- **GP-081674** (Rel-8) CR 44.060 approved: mirror of a previously approved Rel-7 CR in GP-081101

- **Joint decoding** of blocks sent using different EGPRS2 MCS (e.g. peer of MCS-5 and MCS-7 or MCS-6 and MCS-9 for EGPRS)
  - No concerns raised about the proposal in GERAN2#39bis and proposal endorsed by GERAN1
  - **GP-081481, GP-081482** CR 44.060 approved

NOKIA

Rel-7 – EGPRS2 (RED HOT and HUGE)

- **Link Quality Reporting (RED HOT)**
  - Pending progress in GERAN1 on reporting for the most relevant modulation and coding schemes (or only based on nr. of received blocks)
  - **GP-081651, GP-081652** CR 44.060 postponed

NOKIA

Rel-7 – Latency Enhancements

- **Misc. corrections**
  - **GP-081921, GP-081922** CR 44.060 approved: abnormal case on FANR procedure when inconsistent assignments are made by the network (i.e. FANR activation inconsistent across TBFs) : abnormal release of TBF
  - **GP-081872, GP-081810** CR 44.018 approved: inclusion of SSN- and Time- based reporting in RR Packet Uplink Assignment
  - **GP-081727, GP-081728** CR 44.060 approved: misc. corrections to assignment structures description
  - **GP-081811, GP-081812** CR 44.060 approved: correction to PDCH Pair description in MTBF Uplink Assignment and Packet Uplink Assignment to provide consistent coding across various RLC/MAC control messages

NOKIA

Rel-7 – Misc.

- **GP-081813, GP-081814** CR 44.031 approved: correction to extended ephemeris duration so it refers to units of hours

NOKIA

Rel-8 – GAN Iu mode

- **GP-081815** CR 44.318 postponed: misc. corrections to handover to UTRAN
  - More time needed to investigate the proposal
  - See also LS to SA3 in **GP-081925**

NOKIA

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

- **SPID, Redirection and Service Handover**
  - **Subscriber Type**
    - Signalling means proposed in G2#39bis (G2-080515) to obtain the SPID (Subscriber Profile ID for RAT/Frequency priority) information at the BSS from the CN, however clarification on the usage of SPID were requested. Clarification brought at GERAN#40 in **GP-081799**
    - **GP-081871** Proposed Working Assumptions on SPID and Dedicated Priorities
      - **To be seen in plenary**
  - **Redirection / Service Handover**
    - **GP-081503** Redirection from GERAN to E-UTRAN before PS service is set-up
      - Misc. concerns raised as to the feasibility of the proposal (e.g. forcing two-phase access, lack of space in Packet Resource Request, Unavailability of NCell measurements)
    - **CS Domain scenario** i.e. redirection to E-UTRAN at (CS) Channel Release (similar to what exists with UTRAN today)
      - **GP-081854** CR 48.008 postponed
      - **GP-081668** CR 44.018 rejected: no change needed
    - **PS Domain scenario** i.e. service handover
      - **GP-081853** CR 48.018 postponed: addition of E-UTRAN to SERVICE UTRAN CCO

NOKIA

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

- **PCID Grouping per TA**
  - PCID grouping to tackle the issue of preventing reselection of any (LTE) cell within a given freq. for *x* minutes if reselection occurred to a (LTE) cell belonging to a forbidden TA, was seen beneficial by GERAN2#39bis
  - No agreement reached in opening plenary
- **RIM support between GERAN and E-UTRAN**
  - **GP-081927** CR 48.018 approved
- **Inter-RAT PS Handover**
  - GERAN2 conclusion to define a separate capability for PS Handover between GERAN and E-UTRAN
    - Other capabilities will be considered for GERAN2#40bis. Next CT1 is after GERAN2#40bis
    - **GP-081675, GP-081687** Draft CRs 24.008 noted
  - **Containers**
    - Alignment needed as per SA2 and RAN3 decision to use generic transparent containers instead of RAT specific transparent containers
    - ➲ This decision affects GERAN specs, corrections will be brought to GERAN2#40bis

NOKIA

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

- **Measurement Reporting**
  - **GP-081475** Proposal to allow reporting of more Ncells through introduction of a (reporting) White List constructed based on previously reported cells, and maintained as per each report
    - Concerns raised with the complexity to manage the list of reported cells in the MS and BSS
    - Concerns raised about the proposed recovery mechanism: missing a report in the network (even if it would allow more NCells) makes the next report undecodable and requires additional signalling to request a new report
    - More investigations needed
  - **Enhanced Measurement Reporting:** Working assumption reached in G2#39bis to modify the existing messages with a Rel-8 extension
  - **Measurement Control**
    - **GERAN2#39bis:** General view that some level of control is needed (broadcast and ptp), re-using expected "existing" fields (i.e. which will be introduced for E-UTRAN anwyay). GERAN1 decision needed before GERAN2 can progress (see **GP-081441**, slide 8).
    - Proposal in **GP-081654** endorsed in GERAN1, allowing GERAN2 progress

NOKIA

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

- **GP-081855, GP-081934** CRs 44.060, 44.018 approved: Introduction of E-UTRAN information (NCell, Measurements) in RR and RLC/MAC control messages (system information, measurement)
- **GP-081923** CR 44.018 approved: Introduction of RR interworking procedures

- **Note:** The CRs include Fast System Information Acquisition as per the previously agreed working assumption

NOKIA

Rel-8 – ANSS

- **GP-081817** CR 49.031 approved: Addition of Request for GANSS Additional Assistance Data Choices
  - Was previously FFS in 49.031
- **GP-081521** CR 44.031 rejected: L1C/A signal indication for modernized GPS
  - Real-time Integrity need to be investigated (indpdt. of the proposal)
- **GP-081818** CR 44.031 approved: Various GANSS Corrections
- **GP-081819** CR 44.031 approved: Definition of GNSS system time origins to allow unambiguous usage of GANSS Reference Time
- **GP-081525** CR 49.031 approved: Addition of missing SBAS ID in Requested GANSS Assistance Data
- **GP-081526** CR 49.031 approved: Definition of Satellite Related Data for ANSS
- **GP-081820** CR 44.031 approved: GANSS UTC model renaming for consistency with GANSS Assistance Data Request in 3GPP TS 49.031

NOKIA

Rel-8 – TEI-8 (1/3)

- **EFTA**
  - Evaluation of the proposal seen in GERAN2#38bis to allow more Rx/Tx timeslots than provided by FTA (FTA allowed the "Sum" parameter of a Multislot Class to apply on an allocation basis)
  - Concerns raised on "collisions"due to prioritisation of uplink transmission over downlink reception i.e. missed DL data blocks due to UL transmission
  - More investigations needed. GERAN1 feedback needed while the proposal intends at removing a limitation inherent to GPRS behaviour in 45.002 which prevents any such collision to occur
  - **GP-081685** CR 44.060 postponed
  - **GP-081686** CR 45.002 noted
  - **GP-081684** Draft CR 24.008 noted
- **DTX for conversational services**
  - Proposal in **GP-081498** to allow DTX in uplink through usage of PTCCH/U and Search frames during silent periods to provide VAD indication and PANs
  - Performance evaluation lacking both for **multiplexing efficiency** and **delay**

NOKIA

Rel-8 – TEI-8 (2/3)

- **GAN**
  - **GAN Registration update:**
    - New triggers proposed in GERAN#39 for GAN Registration Update procedure (GAN Iu mode and GAN A/Gb mode)
    - **GERAN2#39bis:** Scenarios appear valid, however their likelihood was questioned and whether O&M (network side) or standard changes (terminal side) are needed were to be investigated: **GP-081478** provides additional information
    - **GP-081829** CR 44.318 approved
  - **AoIP Support**
    - Proposal in **GP-081474** allows a direct link between MS and MGW for user plane
    - Concerns raised on security and mobility
    - More work needed

NOKIA

Rel-8 – TEI-8 (3/3)

- **Misc.**
  - **GP-081830** CR 44.060 approved: Clarification of (GMM) Signalling Message Priority in the MS
  - **GP-081851** CR 44.060 approved: Use of Container_ID in inter_RAT handover
    - Container ID is only applicable in case of PS handover within GERAN
  - **GP-081672** CR 44.018 approved: Priority uplink access method in P1 rest octets
- **UTRAN TDD Interworking**
  - GERAN1 endorsement of the introduction of the measured signal strength difference between GSM and TDD (RSCPmin) for interworking with UTRAN TDD
  - **GP-081826** CR 44.018 approved
  - **GP-081827** CR 44.060 approved
- **Multiplexing enhancements for single TBF operation**
  - **GP-081828** Proposed Working Assumptions on Improved Data Flows Multiplexing on Single TBF
    - Supported by a number of vendors and one operator
    - Proposal **endorsed** by GERAN2 as working assumption – One sustained objection by one operator
  - **GP-081660, GP-081661** CRs 44.060, 44.018 postponed
  - **GP-081662** Draft CR 24.008 noted

NOKIA

Rel-8 – A interface over IP (1/4)

- **Call ID:**
  - **GP-081465** CR 48.008 approved: clarification that the call ID is defined on a per-MSC basis
  - **G2#39bis:** Different understandings (i.e. dependency with IP @) need to be resolved and when agreed clarified in the TR
  - Agreement reached that the call ID is used **only** for IP calls
  - Open issue with the usage of the 32-bit call ID i.e. whether to allow reservation of a set of call IDs or not: contributions expected to GERAN2#40bis
  - **GP-081928** CR 48.008 approved: correction on the usage of call ID
  - **GP-081874** CR 48.008 approved: introduction of call ID in internal handover
  - **GP-081866** CR 43.903 endorsed: **plenary**
- **Reset of TDM and IP calls**
  - Desired functionality:
    - Reset of (all) IP calls independent of TDM calls with a single message
    - Reset of all TDM calls independent of IP calls with a single message
    - Reset of all IP and TDM calls with a single message
  - Disagreement in GERAN2#39bis on the messages use to achieve the above functionality (RESET, RESET RESOURCE).
  - GERAN#40 agreement that RESET RESOURCE is only applicable to IP calls
  - **GP-081929** CR 48.008 approved

NOKIA

Rel-8 – A interface over IP (2/4)

- **CIC Allocation**
  - Disagreement in GERAN2#39bis about the need for BSS involvement and potential conflicts that could arise should both the MSC and BSS be able to allocated CICs
  - Agreement that MSC is responsible for Circuit Identity Code allocation (terrestrial circuit)
  - **GP-081711** CR 48.002 approved
  - **GP-081712** CR 48.008 approved
  - **GP-081876** CR 48.008 approved

- LSs to CT4 in **GP-081802**, **GP-081931**, **GP-081932**

NOKIA

Rel-8 – A interface over IP (3/4)

- **CSD/Fax:**
  - **GP-081528** CR 43.903 endorsed: Correction of CS Data and Fax coding: **Plenary**
  - **GP-081930** CR 48.008 approved: Addition of CS Data services

- **Misc.**
  - **GP-081878** CR 48.008 approved: BSS Internal handover procedure (MSC supported)
  - **GP-081869** CR 48.008 approved: Correction of implementation errors of AoIP CRs
  - **GP-081679** CR 48.008 approved: Correction of Message Types
  - **GP-081879** CR 48.008 approved: Addition of Chosen Encryption Algorithm and (BSS) Supported Codec List in Handover Complete
  - **GP-081715** CR 48.008 approved: AoIP IEs are excluded from Assigment Request and Handover Request for Signalling
  - **GP-081936** CR 48.008 approved: Addition of (BSS) Supported Codec List in Assignment Complete

- 49.008 (CT1 responsibility) will be impacted by AoIP

NOKIA

Rel-8 – A interface over IP (4/4)

- **3GPP TS 48.103**
  - **GP-081720** Draft CR 48.103 noted: Description of the TDM-Interface User Plane
    - Best fit in the TR 43.903
  - **GP-081721** Draft CR 48.103 noted: Handling of Text Telephony Calls
    - Best fit in the TR 43.903
  - **GP-081722** Draft CR 48.103 noted: CS Data with Redundancy
  - **GP-081723** Draft CR 48.103 endorsed: Miscellaneous changes

  - **GP-081959** 48.103 v1.3.2 to **plenary**

NOKIA

Rel-8 – Other (1/2)

- **ETWS**
  - **GP-081680** proposes
    - Idle mode: Primary notification sent on PCH in Paging Request Type 1 using page mode "Same as before"
      - Concerns reiterated that page mode = "same as before" may be in use in networks today
      - ETWS MS may fail existing page mode = "same as before" test while ETWS MS behaviour may differ from legacy terminals
    - Dedicated mode: Include primary notification in APPLICATION INFORMATION
    - Packet transfer mode: Include indication in PACKET PAGING REQUEST to order the MS to interrupt the current service to go and monitor CCCH (Paging Request Type 1)
      - Concerns raised that there is no requirement to drop ongoing data transfer to receive 1ary notifications. PACCH solution to be investigated instead of forcing the MS to move to CCCH
  - Impact of duplicate detection (see LS from SA2 in GP-081708) on proposed solutions for idle mode and connected mode need to be studied, potentially getting inspiration from RAN2
  - LS to SA2 in **GP-081935**
  - **GP-081681, GP-081682** CRs 44.018, 44.060 postponed

NOKIA

Rel-8 – Other (2/2)

- **MUROS**
  - Proposal in **GP-081492** to signal the TSC set used on a “MUROS” TCH
    - Would be a workable solution

NOKIA

AOB

- None

Outgoing LSs

- **GP-081931** LS to CT4 on BSS Internal Handover procedure
- **GP-081802** LS to CT4 on Check of peer IP@/UDP port during AoIP assignment and handover procedures Internal Handover procedure
- **GP-081932** LS to CT4 on MSC Preferred Codec List
- **GP-081925** LS to SA3 on GAN Iu mode security considerations
- **GP-081933** LS to RAN2 on encoding of groups of PCI values
- **GP-081935** LS to SA2, RAN2 cc CT1, CT4, RAN3 on duplicate detection for ETWS

- **GP-081804** LS to SA2 cc RAN2, RAN3 applicability of subscriber type for GERAN/UTRAN
  - Plenary

- **NOTE:** Reply LS to SA3, RAN2, RAN3, CT1, CT4 on preventing inter-RAT HO for UE with SIM access will be addressed in GERAN2#40bis meeting
  - See original LS in GP-081753
  - Mechanism for idle mode is expected to be under MS control
  - Mechanism for connected mode is expected to be under network control

NOKIA

Future meetings

• **GERAN2#40bis**	**13 – 16 January 2009**	**Jeju, South Korea**
• GERAN #41	16 – 20 February 2009	Malta, Europe
• GERAN #42	11 – 15 May 2009	Shenzhen, China
• GERAN #43	31 August – 4 September 2009	TBD
• GERAN #44	16 – 20 November 2009	Sophia Antipolis, France

NOKIA