Chairman's Summary

3GPP TSG GERAN2#26bis – Sophia Antipolis, France

03 – 05 October, 2005

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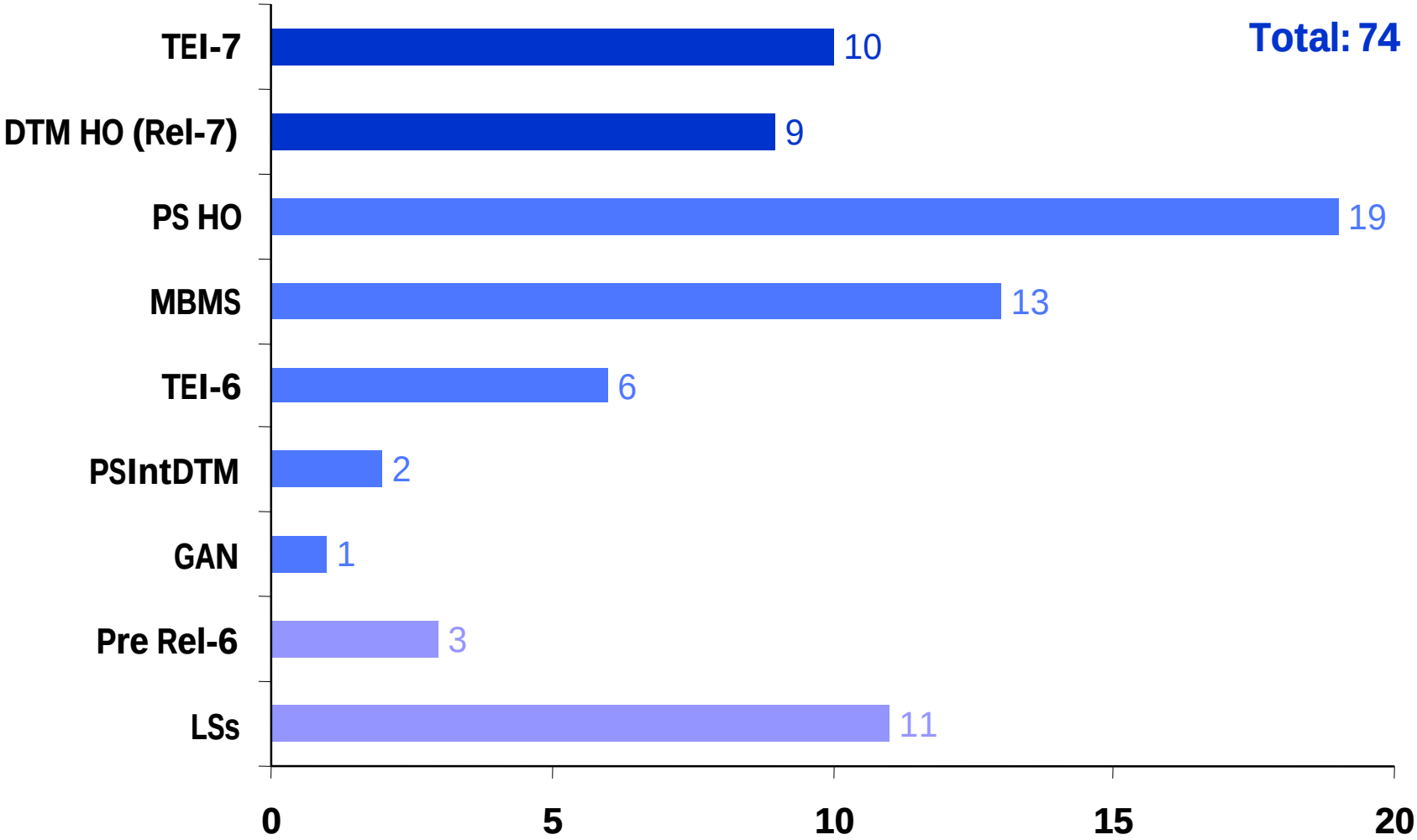
Incoming Contributions per Agenda Item



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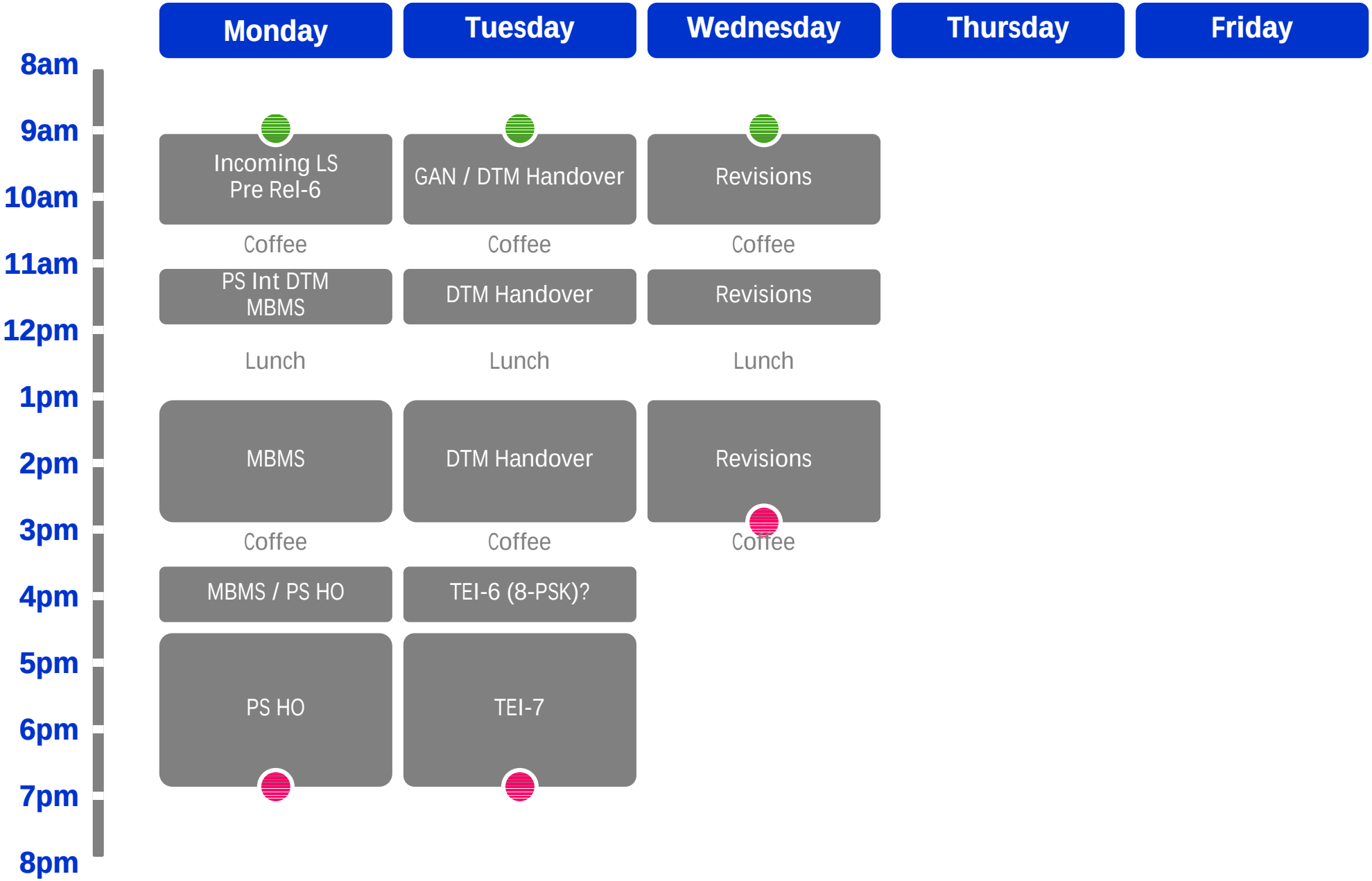

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Pre Rel-6 Corrections

- Transparent UMTS specific information in Classmark
  - Original Rel-4 CR was wrongly implementd
  - G2-050421, G2-050422 CRs 44.018 agreed (Rel-5, Rel-6 exact mirrors of original CR)
  - G2-050423 CR 44.018 agreed (Rel-7, new wording)
  - G2-050424 CR 44.018 agreed (Rel-4, F to fix the wrong implementation of the original CR)

Completed Rel-6 Work Items

- PSIntDTM
  - RR connection establishment using enhanced DTM CS establishment in response to an encapsulated DTM ASSIGNMENT message
    - Align behaviour with IA behaviour: RR connection established as per establishment of the main signalling link. Unnecessary complexity to define RR connection establishment as per sending/receiving Assignment Complete after main signalling link establishment
    - G2-050478, G2-050479 CRs 44.018 agreed
    - G2-050428, G2-050429 CRs 44.060 agreed
    - G2-050473 Draft CR 43.055 endorsed
- GAN
  - G2-050373 CR 43.318 endorsed
    - Misc. clarifications

Completed Rel-6 Work Items – MBMS

- MBMS Session Repetition Number
  - G2-050430, G2-050459 CR 48.018 agreed
  - G2-050432, G2-050433 CR 44.018 agreed
  - G2-050434, G2-050435 CR 44.060 agreed
- Fast Reception Resumption
  - G2-050438, G2-050439 CRs 44.060 agreed
- G2-050360, G2-050361CR 48.018 agreed
  - Reference to MBMS Session ID IE coding
- Permeable Layer Receiver – related
  - CT1 involvement needed, as there could be impacts to UDP: LS sent in G2-050477
  - All zeroes will not worsen an implementation not implementing PLR
  - G2-050406, G2-050407 CRs 44.060 agreed pending CT1 feedback

Open Work Items – PS Handover in A/Gb mode (1/2)

- Stage 2 (43.129)
  - G2-050374 Endorsed
  - G2-050443 Endorsed
  - G2-050385 Endorsed
- Stage 3
  - Handling of START_PS and UE RAC
    - G2-050441, G2-050460 CRs 48.018 agreed
  - Clean up NAS Container for PS HO IE
    - G2-050444, G2-050445 CRs 44.060 agreed
  - PFC prioritization during Handover
    - G2-050377, G2-050378 CRs 48.018 rejected
  - New cause value for PS Handover, new PS HO triggers
    - G2-050462, G2-050463 CRs 44.060 agreed
    - G2-050381, G2-050382 CR 48.018 postponed
    - G2-050380 CR 29.060 noted and sent to CT4 in LS G2-050450
    - It was clarified that correspondance between GERAN/UTRAN causes for PS Handover need to be defined. A proposal will be brought to GERAN#27, and if possible then, sent to CT4

Open Work Items – PS Handover in A/Gb mode (2/2)

- Service UTRAN CCO and PS HO
  - G2-050410, G2-050411 CRs 48.018 agreed
- PSI / SI information transfer to SBSS during inter BSS / inter RAT HO
  - Concerns raised
  - RIM would allow for having the information readily available in the BSS while transparent container solution would require this information be passed during the preparation phase
- Clarify ”Number of Iu instances”: mandatory in RANAP today

TEI-6

- Sending of DTM Information
  - G2-050455 CR 43.055 endorsed: to be seen in GERAN1
  - G2-050436, G2-050437 CRs 44.018 agreed
- Additional pre-configured IP endpoint in BSS
  - G2-050451, G2-050452 CRs 48.016 agreed
- 8-PSK in CM3
  - G2-050480 – G2-050484 Draft CRs 24.008 – 8PSK UL capability (R99+) endorsed
  - Allows indication of 8PSK (EGPRS) UL capability in CM3 for use in DTM
  - 8PSK UL capability becomes common for both PS and CS domains
- LB_MS_TXPWR_MAX_CCH to PSI13 and PSI14 on PACCH
  - GP-052453, GP-052454 CRs 44.060 agreed
  - CRs to 45.008 are also needed to indicate this information is available on PBCCH

Other technical work – Rel-7 – DTM Handover (1/6)

- (1) CS higher priority than PS
  - Use cases needed to justify PS higher priority than CS
  - No PS HO Command sent to the MS in DTM
- T1, T2: (max) value implementation dependent
  - Standard: T2 value > T1 value: O&M to guarantee this
- Failure cases
  - If CS fails, PS HO cancelled:
    - If TBSS unable to allocate CS resources:
      - it may decide not to proceed with PS HO at all and may therefore send a PS HO Request Negative Ack to SGSN
    - SBSS upon reception of Handover Required Reject:
      - cancels the PS HO (if it has received PS Handover Required Ack)
    - SBSS retries both or CS alone (see (1))
  - Failure may occur on the reverse link in the CN even if TBSS has returned PS HO Required Ack and HO Required Ack to SGSN and MSC respectively
    - In this case the SBSS receives the DTM HO Command message from the successful node only (in Handover Command or PS Handover Required Ack message)
    - SBSS shall not send the DTM HO Command to the MS, nor does it build a RR Handover Command to the MS (same principle to be followed for inter RAT case as well)
    - SBSS retries both or CS alone (see (1))
  - Possibility in the SBSS to retry (to same TBSS/cell) only the PS HO in case CS only succeeds: open
    - What is the criteria for doing so vs. retrying both to another TBSS and/or cell?
  - Failure Cause values (TBSS, CN) need to be defined: needed as of Rel-6 for PS Handover
  - [Radio interface] Access failure in target cell must be clarified/defined

Other technical work – Rel-7 – DTM Handover (2/6)

- DTM handover to a cell lacking DTM handover support
  - Standardized solution is preferred
  - RIM/no RIM – open
    - RIM was designed for connection-less operation
    - Info might not be up-to-date: i.e. information exchanged between nodes well ahead of HO –and not in connection with it
    - Info might not be available on time (?): in case RIM is invoked during the Handover
- Stage 2 CRs:
  - Draft CR to 43.055-Introduction of DTM Handover
    - Discussions to continue by email: Nokia to send an email on GERAN2 reflector to trigger this
    - Structuring of the CR: completely new sections referring to existing ones when needed could be better? To be sorted out ASAP
  - Draft CR to 43.129-Introduction of DTM Handover
    - Likely not needed: 43.055 could be a stand-alone stage 2 for DTM Handover that would also highlight differences with PS Handover.
  - Draft CR to 23.009-Introduction of DTM Handover
    - Not needed: 43.055 sufficient
  - Proposal: 43.055 alone would specify DTM Handover: requirements in 43.129 and 23.009 apply unless otherwise altered by 43.055 (disclaimer in 43.055)

Other technical work – Rel-7 – DTM Handover (3/6)

- Any interest for:
  - GAN with PS Handover and DTM Handover ?
- Inter-RAT DTM Handover
  - Usage of *number of Iu instances* possible to indicate DTM Handover (1 Iu instance for PS, 1 Iu instance for CS)

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Other technical work – Rel-7 (4/6)

- TEI-7
  - G2-050458 CR 48.008-0177 Correction of reference to 2G-3G handover IE (Rel-7)
    - Correct the definition of the Source RNC to Target RNC Transparent Container IE for UMTS (clarify name of the RANAP IE) and CDMA2000 (remove reference to RANAP)
  - G2-050456 CR 44.060-0731 agreed
    - Permission to access the network during DL TBF (Rel-7)
  - G2-050457 Draft CR 43.055 endorsed
    - MS in DTM to assume SGSN is of R99+; to ignore SGSNR in PSI14
  - G2-050379 CR 48.016-0037 agreed
    - Correction of Size and Configuration Procedures for an IP Sub-network (Rel-7)
  - G2-050414 CR 48.016 agreed
    - Clean-up
  - G2-050393 CR 48.016-0026 rev 1: Packet Loss Measurement Function
    - Rejected for other means exist to monitor what's going on on the Gb interface with GboIP

Other technical work – Rel-7 (5/6)

- Early allocation of TBFs
  - G2-050397 CR 44.060 postponed
  - General agreement on the principle
  - Linkage with MTBF support unnecessary
  - Uplink
    - Indication of support for this (MS/NW) to be investigated
    - Triggers for early TBF request to be defined
    - At one phase access, data blocks including TLLI need to be sent: UL DUMMY CONTROL blocks cannot be sent
    - PC to be kept in mind, though already addressed for ext UL TBF mode
  - Downlink:
    - Can DL DUMMY LLC PDU be sent today to an R97 MS at DL TBF establishment without any problem? I.e. can Delayed DL TBF release apply from initial TBF establishment?
    - Need for triggers for early TBF allocation unlikely

Other technical work – Rel-7 (6/6)

- MBMS Transfer mode
  - G2-050394 CR 43.246-xxx: MBMS Transfer Mode (Rel-7)
  - G2-050395 CR 44.060-draft: MBMS Transfer Mode (Rel-7)
  - Concept paper needed (Ericsson) for there is no agreement on the concept yet, while a few issues need to be addressed
  - Support for MBMS Transfer Mode as of Rel-6 recommended by a number of companies

Outgoing LSs

- G2-050486 LS to RAN2, RAN3 cc CT4 on RIM procedure reuse for PS Handover
- G2-050476 LS to RAN2, RAN4, GERAN on Inter-band mobility and Potential inter-RAT inter-working problem caused by overlapping UTRAN operating bands
- G2-050477 LS to CT1 cc SA4 on Usage of PLR
- G2-050450 LS to CT4 on New Cause IE for PS Handover (includes G2-050380)
- G2-050485 LS to CT1 on on indication of 8-PSK support in the uplink in MS Classmark 3 (includes G2-050480-G2-050484)

Future meetings

• GERAN2#27	08-10 Nov 2005	Atlanta, US
• GERAN2#28	17-19 January 2006	
• **GERAN2#28bis**	**20-24 March 2006**	
• GERAN2#29	25-27 April 2006	
• **GERAN2 #29bis**	**22-26 May 2006**	
• GERAN2#30	27-29 June 2006	
• GERAN2#31	05-07 September 2006	
• **GERAN2#31bis**	**09-13 October 2006**	
• GERAN2#32	14-16 November 2006	

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