TSG GERAN
TSG SA#28

TSG GERAN Report to TSG-SA#28

TSG-GERAN Chairman

Andrew Howell (Motorola Ltd.)

Tdoc SP-050239

TSG GERAN #24 Overview

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- **GERAN #24**
  - **569 Documents addressed**
  - **230 CRs approved**
  - **95 delegates**

- **TSG GERAN WG1 chair:**
  - **No Candidates - position is open**
- **TSG GERAN WG2 chair:**
  - **Guillaume Sébire (Nokia) elected**
- **TSG GERAN WG3 chair:**
  - **Ilya Gonorovsky (Motorola) – election due in August 2005**

CRs impacting Pre-Release 6 Specifications (1/2)

Negotiation of SNDCP compression entities:

- **Negotiation of SNDCP compression entities with unknown algorithm type described in 3GPP TS 44.065 subclause 6.8 is interpreted differently by some manufacturers.**
- **At the request of CN1, a set of CRs to TR 09.95/49.995 where agreed to clarify the situation (R97 to Rel-6).**
- **All new GPRS mobiles to support explicit rejection of non-supported compression algorithms, within 4 months.**

TR 09.95/49.995:

- **Release 6 version of TR 49.995 introduced and all early releases updated to point to the latest release.**

LCS:

- **TS 04.31 - Restoration of deleted ellipsis notation in RRLP component (R98 (CR 04.31-A122))**

CRs impacting Pre-Release 6 Specifications (2/2)

GERAN support for Audio and Video Codecs

- **TS 05.05 - Performance requirements for E-TCH/F32.0 (R99 (CR 05.05-A219) to Rel-6)**

GSM 750 corrections to allow tests to reference 750 band

- **TS 43.022 (Rel-4 (CR 43.022-020) to Rel-6)**
- **TS 45.001 (Rel-4 (CR 45.001-039) to Rel-6)**
- **TS 45.005 (Rel-4 (CR 45.005-103 rev 1) to Rel-6)**
- **Corresponding changes to TS 24.008 forwarded to CT1 (agreed by CT1#38)**

Other:

- **Inconsistent coding of FORMAT ID in variable bitmap format of Cell Channel Description, CSN.1 coding modification of PSI14 extensions (R99 (CR 04.18-A295 rev 1) to Rel-5)**

TSG GERAN WG1 Related Completed Rel-6 Work (1/4)

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Packet radio (GPRS) – Rel-6

- **Clarification on non-contiguous assigned timeslots**
  TS 45.002 (CR 45.002-098)

GSM-3G handovers and multimode operation – Rel-6

- **2G-3G cell reselection without PBCCH**
  TS 45.008 (CR 45.008-263)

Enhanced Data Rates (EDGE) – Rel-6

- **Clarification of MS requirements for synchronization**
  TS 45.010 (CR 45.010-033)

TSG GERAN WG1 Related Completed Rel-6 Work (2/4)

GERAN support for Audio and Video Codecs

- **See earlier slide**

Technical enhancements and Improvement – Rel-6

- **Performance requirements for Repeated FACCH**
  TS 45.005 (CR 45.005-102 rev 3)

Other technical work – Rel-6

- **Corrections due to removal of fixed allocation**
  TS 43.055 (CR 43.055-036)
- **Clarification on the wanted signal level for adjacent channel performance – Rel-6**
  TS 45.005 (CR 45.005-108)

TSG GERAN WG1 Related Completed Rel-6 Work (3/4)

DTM Enhancements - Rel-6

- **Extension of DTM to high multislot classes**
  - **TS 43.055 (CR 43.055-031 rev 3))**
  - **TS 43.064 (CR 43.064-029 rev 1))**
  - **TS 45.002 (CR 45.002-097 rev 1))**
- **Cell Update for DTM capable MS when moving from Packet Idle to Dedicated Mode**
  - **TS 43.055 (CR 43.055-037))**

TSG GERAN WG1 Related Completed Rel-6 Work (4/4)

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MBMS - Rel-6 changes to TS 43.246

- Removal of multiple MBMS radio bearers per MBMS service per cell (CR 43.246-027)
- Clarification of PACKET POLLING REQUEST message in MBMS broadcast/multicast mode (CR 43.246-029)
- Clarification of usage of ARQ and block repetition (CR 43.246-026 rev 1)

TSG GERAN WG1 Related Ongoing Rel-6 Work

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AMR Link Adaption - Rel-6

- It was proposed during GERAN#24 that the definition of the channel quality measure in TS 45.009, should be modified to allow for a variable normalization factor.
- It was also agreed that the reference for the channel quality measure is the minimum performance as defined by the requirements given in TS 45.005.
- Conclusion : a CR to TS 45.009 is expected to be provided at next meeting (June) to complete this work in Rel-6.

TSG GERAN WG2 Related Completed Rel-6 Work (1/3)

MBMS – Completed Items

- **Stage 2 – Rel-6 changes to TS 43.246**
  - MBMS notification for MSs in dedicated mode
  - Clarification of usage of ARQ and block repetition
  - Align Resource Management Procedure with Stage 3
- **Stage 3 – Rel-6 changes to TS 44.060**
  - Addition of PBCCH parameters to the MBMS Neighbouring Cell Information message
  - T3220 (prenotification-notification)
  - Addition of MBMS packet access procedure on MPRACH
  - Addition of suspension/resumption of the reception of an MBMS radio bearer
  - Correction to Restriction Timer
- **Stage 3 – Rel-6 changes to TS 44.018**
  - T3220 (prenotification – notification)
  - Correction of Paging Request description for MBMS
  - MBMS notification for MSs in dedicated mode (Rel 6)

TSG GERAN WG2 Related Completed Rel-6 Work (2/3)

PS HO – Completed Items

- Split of existing WID (SCSAGB) into
  - WID PS HO: for June 2005 (Rel-6)
  - WID SCSAGB2 Support of Conversational Services (assumes PS HO completed first): for June 2006 (Rel-7)

- Stage 2 – Rel-6
  - Routing Area Update at every Inter-RAT PS Handover
  - Various Updates/Clarifications to TS 43.129
  - DL Data Transfer for optimised Intra-BSS PS Handover
    - BSS indication to the SGSN when MS is detected on the channel (reception of first UL RLC/MAC block from the MS)
    - Speeds up the resumption of DL data transfer

TSG GERAN WG2 Related Completed Rel-6 Work (3/3)

TEI6 Enhancements

- VGCS
  - TS 44.018 Clarifications on segmented notifications
  - TS 48.008 Removal of redundant VGCS parameters
  - TS 44.018 Inconsistency of Group Channel Description

TSG GERAN WG2 Related Ongoing Rel-6 Work (1/3)

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MBMS – Open Items in Rel-6

- **Feedback and Ncell measurement reporting**
  - **Ncell and Ack bitmap in the same message: new message needed**
  - **Indication of reception of reselection parameters needed**
  - **Need for indication of reception of Ncell ptm parameters questioned**
  - **Optionality/mandate for Ncell measurement reports for EGPRS**
    - **Could be left mandatory with a rule decreasing the amount of NC reports to allow for sufficiently large bitmap**
- **CRs expected at GERAN#25 for approval in June**

TSG GERAN WG2 Related Ongoing Rel-6 Work (2/3)

PS HO – Open Items in Rel-6

- **Stage 2 – Rel-6**
  - **Suspension of DL Data Transfer**
    - **Further work needed to clarify the benefits**
- **Stage 3**
  - **44.060**
    - **CS call during PS HO needs to be addressed (MO/MT case)**
    - **PS HO in DTM not possible**
    - **Other editorial corrections still needed**
  - **48.018**
    - **Service primitives: Packet Flow Management**
    - **Misalignment between message names in stage 2 and stage 3**
    - **Packet Flow Context Delete:**
      - **exisiting BSS PFC Delete procedure used**
- **CRs expected at GERAN2#24bis for approval in June**

TSG GERAN WG2 Related Ongoing Rel-6 Work (3/3)

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Repeated FACCH

- Principle of using repeated FACCH to improve signalling performance for AMR in very bad radio conditions has been agreed
- Technical solutions in the form of Change Requests where presented to TSG GERAN #24 but postponed for development of a Signalling-free solution.
- Will be mandatory for Rel-6 MSs.
- Double decoding will be used in the MS.
- CRs expected at GERAN2#24bis for approval in June

TSG GERAN WG3 Related (1/4)

Testing - DARP Work-Plan

- 11 new DARP specific test cases now available
  - All planned circuit switched test cases complete
  - All planned GPRS test cases complete
  - All planned signaling test cases complete
- 5 existing test cases modified to accommodate DARP
- 1 non-DARP specific test case added (due to splitting of existing test case)
- The LS to GCF and PTCRB could be found in GP-051042

TSG GERAN WG3 Related (2/4)

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Testing – BEP

- EGPRS Switched Radio Block Loop-back Mode will not be changed
- Only MEAN_BEP values >7 will be tested
- Header error rate will not be considered as a problem for the test since only mean (BEP) values > 7 will be tested.
- Only 3 MEAN_BEP intervals will be checked
- One measurement will be performed at S=-82dBm and N=0 (<-150dBm)
- Levels of 8-13, 17-20 and -82dBm without errors (no interference) will be used for 8-PSK.
- Levels of 10-14, 16-21 and -82dBm without errors (no interference) will be used for GMSK.
- WG3 believes that a decision by WG1, related to the long-term reference needs to be made, before the BEP Test can be finalised.

TSG GERAN WG3 Related (3/4)

Testing "STF 272" (TTCN)

- **Correction to Handover to UTRAN Command for 60.1**
- **Corrections to 26.6.11.3 and 26.6.11.4.**
- **Correction to 60.1 to handle the path for Handover To UTRAN for MS supporting GSM HR speech call**
- **Correction to 60. 4 Inter system handover to UTRAN/From GSM/SDCCH/CC Establishment/Success**
- **Correction to 60.10 Inter system handover to UTRAN/From GSM/Integrity Protection Activation**
- **Correction to Intersystem Cell Reselection/Idle Mode/FDD_Qoffset (20.25.3)**
- **Correction to Intersystem Cell Reselection/Idle Mode/Qsearch_I (20.25.4)**
- **Add new verified TTCN test cases CR to 51.010-5 (prose) in Annex A (Rel-6)**

TSG GERAN WG3 Related (4/4)

GPRS

- GERAN WG3 received and agreed a number of GPRS CRs to section 41, 42, 43 and 44, of 51.010-1
- The corresponding tests for EGPRS (S51, S52, S53) for all relevant test cases were provided.

EDGE

- CRs correcting the existing test cases in terms of requirements (aligning with the latest changes in the core specifications) and tests procedures.

General

- A number of contributions were received to make the A-GPS test cases set sufficient.
- For the next meeting WG3 is expected to create the Work-Plan on the Extended Dynamic allocation.
- A number of the contributions related to improving of AMR testing were received and agreed.
- Inter-Rat handover tests were corrected and align with the latest versions of the core specifications.

TSG GERAN
Other Technical Work (1/8)

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VGCS

- **Recommendations for Reducing A-Interface Resources Required for VBS and VGCS Group Calls**

DTM - Handover of Shared and Dedicated Resources

- **Discussion paper indicating guidelines and requirements. Companies invited to provide similar input**
- **PS HO (Rel-6) should be future proof enough to accomodate future changes**

Video Telephony – Feasibility study

- **3GPP TR 43.935 Feasibility study of enhanced support for video telephony service over GERAN via the A interface**
  - **”It shall be possible to switch from video telephony to DTM and vice versa. The switching shall be performed on user’s request”**

TSG GERAN
Other Technical Work (2/8)

Video-voice fallback

- **More work needed**
- **Redial solution: no clear stage 1/2 requirements thus far**
- **No BCCH indication of CS VT support**
- **No delay of a HO (to a cell where VT is not supported)**

VGCS

- **TS 44.060 Clarification on reduced NCH monitoring via Packet Paging Request message**
  - **Does not solve the problem of reduced NCH monitoring**
  - **Full set of CRs expected in GERAN2#24bis**

LCS

- **Inclusion of IMSI/IMEI to SMLC for positioning procedures**
- **SA3 to provide feedback as to whether there is any privacy/security issue (storage of the IMSI/IMEI by SMLC)**
- **CRs will then proceed as per the decision of SA3**

TSG GERAN
Other Technical Work (3/8)

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Repeated SACCH

- For the SACCH, a couple of proposals based on repetition have been discussed, and a number of drawbacks have been identified.
- In addition, a proposal to enhance the downlink SACCH was given which exploited repetition which is already inherent on the SACCH.
- It is planned to take a decision at the next meeting, considering the different proposals

TSG GERAN
Other Technical Work (4/8)

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Generic Access to A/Gb Interface

- **Feasibility Study WI agreed in GERAN#20 (Bilbao)**
- **Feasibility Study completed in GERAN#21 and TR placed under change control. TR 43.901 v 6.0.0**
- **Comments from TSG SA WG1 and WG2 taken into account in work on a Stage 2**
- **TSG SA WG3 confirmed that the adoption of the security mechanisms defined by SA WG3 for WLAN-Interworking (TS 33.234) was appropriate.**
- **Stage 2 completed and approved at GERAN#23**
- **As reported to TSG SA#27 Stage 3 completed and approved at TSG GERAN#24 (April 2005) as Release 6 – TS 44.318.**

TSG GERAN
Other Technical Work (5/8)

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On Board Plane Cellular Systems

- During the GERAN #22 and #23 meetings (November 2004 / January 2005) the issue of acceptable levels of interference to terrestrial networks was discussed with respect to the operation of an airborne network.
- Decision on levels to be used inside the plane, and requirements about the attenuation of interferences caused "outside" the plane, and related tolerances, will (hopefully) be taken at next TSG GERAN#25 meeting.

TSG GERAN
Other Technical Work (6/8)

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Support of Frequency bands

- Introduction of GSM 710
  - Rel-7 (CR 43.022-019)
  - Rel-7 (CR 45.001-042)
  - Rel-7 (CR 45.005-106 rev 1)

Location Services (LCS)

- Enabling the Providing of Velocity
  - Rel-7 (CR 43.059-055)

TSG GERAN
Other Technical Work (7/8)

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Future GERAN Evolution FS

- **WID on Future GERAN Evolution Feasibility Study agreed at GERAN#24**
- **The aim is that the feasibility study be complete by November 2005, at the latest, in order that identified enhancements can to be adopted for Release 7.**
- **Proposed structure for feasibility study agreed.**
- **A work item corresponding to a particular enhancement can be created earlier than November 2005.**

TSG GERAN
Other Technical Work (8/8)

WIDs not covered elsewhere

- **WID on Addition of new frequency band to GSM (T-GSM810)**
  - **Changes to core specification**
  - **Changes to MS Testing Specification**
  - **Changes to BTS Testing Specification**
- **WID on Support of Conversational Services in A/Gb Mode via the PS domain (SCSAGB2)**
  - **Radio Resource Management**
  - **Modifications of Flexible Layer One**
  - **Radio Channel Support**

Future Planned TSG GERAN Plenary meetings

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TSG GERAN #25	**20 – 24 June 2005**	**Montreal**
TSG GERAN #26	**29 August – 2 September 2005**	**Chicago**
TSG GERAN #27	**07 – 11 November 2005**	**TBD**
TSG GERAN #28	**16 – 20 January 2006**	**(EU)**
TSG GERAN #29	**24 – 28 April 2006**	**(US)**
TSG GERAN #30	**26 – 30 June 2006**	**(EU)**
TSG GERAN #31	**04 – 08 September 2006**	**(US)**
TSG GERAN #32	**13 – 17 November**	**(EU)**

Extract of GERAN work programme and list of CR handled at TSG GERAN #23 are attached to this report

TSG GERAN
Background Information

TSG GERAN work area (1/2)

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TSG GSM/EDGE Radio Access Network (TSG-GERAN)

- **GERAN Radio aspects, and interfaces**
- **RF aspects of GERAN**
- **Specifications for GERAN radio performance and RF system aspects**
- **GERAN Radio Layer 1 specification**
- **GERAN Radio Layer 2 specification**
- **GERAN Radio Layer 3 RR specification**

TSG GERAN work area (2/2)

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- A interface specification, Gb interface specification
- Internal GERAN interface specifications such as Abis, and Ater (CCU-TRAU)
- Conformance test specifications for testing of all aspects of GERAN base stations
- Conformance test specifications for testing of all aspects of GERAN terminals
- GERAN specific O&M specifications for the nodes in the GERAN

Organisation of TSG GERAN (1/4)

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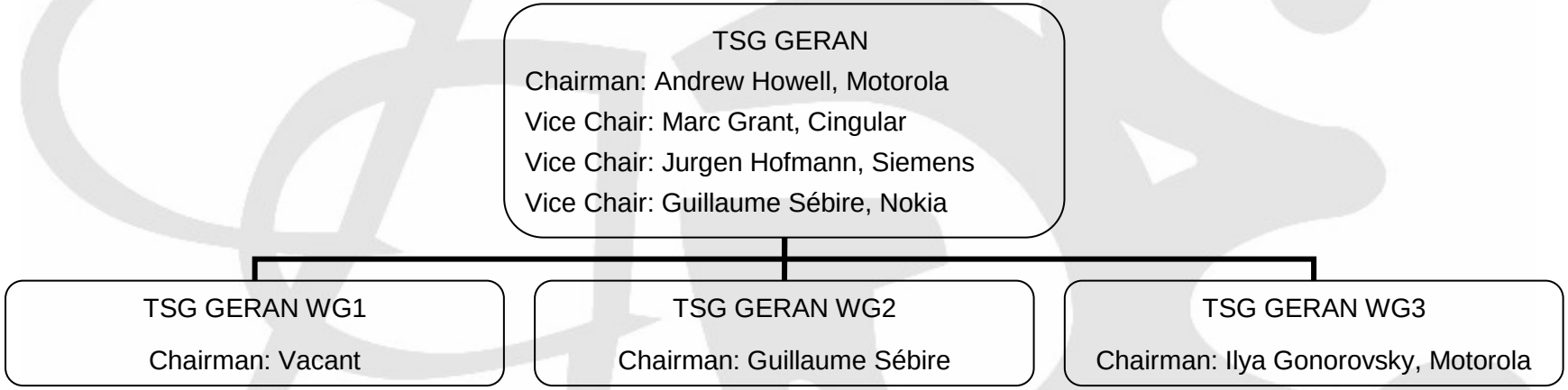

Organisation of TSG GERAN (2/4)

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TSG GERAN WG1 – Radio Aspects

- Chairman: Vacant
- RF aspects of GERAN
- GERAN radio performance and RF system aspects
- Ater (CCU-TRAU)
- BTS testing and GERAN specific O&M aspects

Organisation of TSG GERAN (3/4)

TSG GERAN WG2 – Protocol Aspects

- **Chairman: Guillaume Sébire**
- **GERAN Radio Layer 2 specification**
- **GERAN Radio Layer 3 RR specification**
- **A interface specification, Gb interface specification**
- **Internal GERAN interface specifications such as Abis**

Organisation of TSG GERAN (4/4)

TSG GERAN
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TSG GERAN WG3 – Terminal Testing Aspects

Chairman: Ilya Gonorovsky, Motorola

- **Conformance test specifications for testing of Lower layers including RLC/MAC**
- **Conformance test specifications for testing Protocol aspects above the RLC/MAC**

Specification and version numbering

- **Old specification numbers and version numbers are kept for Phase 1, Phase 2, Release 96, Release 97, Release 98, and Release 99**
- **For Releases after Release 99 specification numbering to follow 3GPP format xx.yyy and version number aligned with other TSGs, e.g next release will be version 4.x.y.**
- **New specification numbers to be derived from the old specification number**

  ab.cd=> (40+ab).0cd

  e.g

  05.08 => 45.008

3GPP TSG GERAN#24
Meeting no 24
Dublin, Ireland
04 – 08 April 2005

List of change Request presented to TSG GERAN#24 – Status after meeting

Tdoc	Title	Source	Agenda Item
GP-050840	CR 04.18-A295 rev 1 Inconsistent coding of FORMAT ID in variable bitmap format of Cell Channel Description (R99)	TSG GERAN WG2	Approved
GP-050836	CR 04.31-A122 Restoration of deleted ellipsis notation in RRLP component R98	Qualcomm	Approved
GP-051054	CR 05.05-A219 Performance requirements for E-TCH/F32.0 (R99)	Ericsson, Nokia, Siemens	Approved
GP-050819	CR 09.95-A011 Negotiation of SNDCP Compression Entities (R97)	Nortel, Nokia, Siemens	Approved
GP-050820	CR 09.95-A012 Negotiation of SNDCP Compression Entities (R98)	Nortel, Nokia, Siemens	Approved
GP-050821	CR 09.95-A013 Negotiation of SNDCP Compression Entities (R99)	Nortel, Nokia, Siemens	Approved
GP-050772	CR 43.022-017 GSM 750 corrections (Rel-5)	WTSC-G3GRA	Approved
GP-050773	CR 43.022-018 GSM 750 corrections (Rel-6)	WTSC-G3GRA	Approved
GP-050774	CR 43.022-019 Introduction of GSM 710 (Rel-7)	WTSC-G3GRA	Approved
GP-050867	CR 43.022-020 GSM 750 corrections (Rel-4)	WTSC-G3GRA	Approved
GP-050625	CR 43.055-031 rev 3 Extension of DTM to high multislot classes (Rel-6)	Siemens	Approved
GP-050632	CR 43.055-036 Corrections due to removal of fixed allocation (Rel-6)	Siemens	Approved
GP-050950	CR 43.055-037 Cell Update for DTM capable MS when moving from Packet Idle to Dedicated Mode (Rel-6)	Siemens	Approved
GP-050766	CR 43.059-055 Enabling the Providing of Velocity (Rel 7)	SiRF Technology	Approved
GP-050825	CR 43.059-056 Providing IMSI and IMEI to the SMLC in positioning procedures (Rel 6)	Nortel, T-Mobile	Revised

Tdoc	Title	Source	Agenda Item
GP-051013	CR 43.059-056 rev 1 Providing IMSI and IMEI to the SMLC in positioning procedures (Rel-6)	Nortel, T-Mobile	Postponed
GP-050626	CR 43.064-029 Extension of DTM to high multislot classes (Rel-6)	Siemens	Revised
GP-051004	CR 43.064-029 rev 1 Extension of DTM to high multislot classes (Rel-6)	Siemens	Revised
GP-051131	CR 43.064-029 rev 2 Extension of DTM to high multislot classes (Rel-6)	Siemens	Approved
GP-050894	CR 43.129-009 Routing Area Update at every Inter-RAT PS Handover (Rel-6)	Ericsson	Approved
GP-050895	CR 43.129-010 XID negotiation and NSAPI/SAPI/PFI mapping (Rel-6)	Ericsson	Withdrawn
GP-050925	CR 43.129-011 Simplification of PS Handover procedure (Rel 6)	Siemens, Infineon	Revised
GP-051172	CR 43.129-011 rev 1 Simplification of PS Handover procedure (Rel 6)	Siemens, Infineon	Postponed
GP-050926	CR 43.129-012 Suspension of DL Data Transfer (Rel 6)	Siemens, Infineon	Postponed
GP-050938	CR 43.129-013 DL Data Transfer for optimised Intra-BSS PS Handover (Rel 6)	Nokia	Revised
GP-050991	CR 43.129-013 rev 1 DL Data Transfer for optimised Intra-BSS PS Handover (Rel 6)	Nokia	Revised
GP-051136	CR 43.129-013 rev 2 DL Data Transfer for optimised Intra-BSS PS Handover (Rel 6)	Nokia	Approved
GP-050939	CR 43.129-014 Clarification to XID negotiation procedure (Rel 6)	Nokia	Withdrawn
GP-050940	CR 43.129-015 Various Updates/Clarifications to TS 43.129 (Rel 6)	Nokia, LG Electronics	Approved
GP-050633	CR 43.246-026 Clarification of usage of ARQ and block repetition (Rel-6)	Siemens	Revised
GP-050985	CR 43.246-026 rev 1 Clarification of usage of ARQ and block repetition (Rel-6)	Siemens	Approved
GP-050634	CR 43.246-027 Removal of multiple MBMS radio bearers per MBMS service per cell (Rel-6)	Siemens, Ericsson	Approved
GP-050890	CR 43.246-028 Align Resource Management Procedure with Stage 3 (Rel-6)	Ericsson	Revised

Tdoc	Title	Source	Agenda Item
GP-050988	CR 43.246-028 rev 1: Align Resource Management Procedure with Stage 3 (Rel-6)	Ericsson	Approved
GP-050891	CR 43.246-029 Clarification of PACKET POLLING REQUEST message in MBMS broadcast/multicast mode (Rel-6)	Ericsson	Approved
GP-050916	CR 43.246-030 MBMS notification for MSs in dedicated mode (Rel 6)	Infineon	Revised
GP-050995	CR 43.246-030 rev 1 MBMS notification for MSs in dedicated mode (Rel-6) (Rel-6)	Infineon	Revised
GP-051128	CR 43.246-030 rev 2 MBMS notification for MSs in dedicated mode (Rel-6)	Infineon	Approved
GP-050934	CR 43.318-001 Introduction of the support for Cell Broadcast in GAN (Rel 6)	Vodafone	Approved
GP-050935	CR 43.318-002 Removal of GAN-only and GERAN-only modes (Rel 6)	Vodafone	Rejected
GP-051168	CR 44.004-011 Repeated FACCH (Rel-6)	Ericsson	Postponed
GP-050898	CR 44.006-004 rev 4 Repeated FACCH (Rel-6)	Ericsson	Revised
GP-051008	CR 44.006-004 rev 5 Repeated FACCH (Rel-6)	Ericsson	Revised
GP-051152	CR 44.006-004 rev 6 Repeated FACCH (Rel-6)	Ericsson	Revised
GP-051169	CR 44.006-004 rev 7 Repeated FACCH (Rel-6)	Ericsson	Revised
GP-051171	CR 44.006-004 rev 8 Repeated FACCH (Rel-6)	Ericsson	Postponed
GP-050942	CR 44.006-005 Repeated FACCH (Rel-6)	Nokia	Withdrawn
GP-050771	CR 44.014-013 Reinstate Heading style in 44.014 (Rel-6)	NEC	Revised
GP-051019	CR 44.014-013 rev 1 Reinstate Heading style in 44.014 (Rel-6)	NEC	Approved
GP-050857	CR 44.018-399 rev 2 Access bursts on VGCS channel (Rel-6)	TSG GERAN WG2	Approved
GP-050899	CR 44.018-426 rev 3 Repeated FACCH (Rel-6)	Ericsson	Revised
GP-051134	CR 44.018-426 rev 4 Repeated FACCH (Rel-6)	Ericsson	Postponed
GP-050841	CR 44.018-429 rev 2 Inconsistent coding of FORMAT ID in variable bitmap format of Cell Channel Description (Rel-4)	TSG GERAN WG2	Approved
GP-050842	CR 44.018-430 rev 2 Inconsistent coding of FORMAT ID in variable bitmap format of Cell Channel Description (Rel-5)	TSG GERAN WG2	Approved

Tdoc	Title	Source	Agenda Item
GP-050858	CR 44.018-431 rev 1 VGCS ciphering parameters not in Handover Command (Rel-6)	TSG GERAN WG2	Approved
GP-050859	CR 44.018-432 rev 1 Miscellaneous VGCS corrections (Rel-6)	TSG GERAN WG2	Approved
GP-050701	CR 44.018-433 rev 1 Clarifications on segmented notifications (Rel 6)	Siemens	Revised
GP-051010	CR 44.018-433 rev 2 Clarifications on segmented notifications (Rel-6)	Siemens	Approved
GP-050838	CR 44.018-435 rev 1 MultiRateConfiguration IE in case of UTRAN to GSM HO (Rel-6)	TSG GERAN WG2	Approved
GP-050793	CR 44.018-437 Description of T3220 (Rel-6)	Ericsson, Telecom Italia S.p.A.	Approved
GP-050860	CR 44.018-438 rev 1 Removal of length restrictions for some VGCS messages (Rel-6)	TSG GERAN WG2	Approved
GP-050843	CR 44.018-439 Correction of handling of Request Reference and Wait Indication IEs with DTM enhacements (Rel-6)	TSG GERAN WG2	Approved
GP-050861	CR 44.018-440 rev 2 Cell Update for DTM capable MS when moving from Packet Idle to Dedicated Mode whilst in GMM Ready and in case of DTM Handover Failure. (Rel-6)	TSG GERAN WG2	Approved
GP-050844	CR 44.018-441 rev 1 Align naming to MBMS Session Identity (Rel-6)	TSG GERAN WG2	Approved
GP-050864	CR 44.018-442 rev 1 Inconsistency of Group Channel Description (Rel 6)	Alcatel	Revised
GP-051012	CR 44.018-442 rev 2 Inconsistency of Group Channel Description (Rel 6)	Alcatel	Revised
GP-051153	CR 44.018-442 rev 3 Inconsistency of Group Channel Description (Rel-6)	Alcatel	Approved
GP-050787	CR 44.018-443 Introduction of GSM 710 (Rel-7)	WTSC-G3GRA	Revised
GP-051088	CR 44.018-443 rev 1 Introduction of GSM 710 (Rel-7)	WTSC-G3GRA	Postponed
GP-050892	CR 44.018-444 Correction of Paging Request description for MBMS (Rel-6)	Ericsson	Approved
GP-050915	CR 44.018-445 DTM lower layer failure before ASSIGNMENT COMPLETE message is sent (Rel 6)	Infineon	Revised
GP-051003	CR 44.018-445 rev 1 DTM lower layer failure before ASSIGNMENT COMPLETE message is sent (Rel 6)	Infineon	Approved

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GP-050917	CR 44.018-446 MBMS notification for MSs in dedicated mode (Rel 6)	Infineon	Revised
GP-050993	CR 44.018-446 rev 1 MBMS notification for MSs in dedicated mode (Rel-6)	Infineon	Revised
GP-051129	CR 44.018-446 rev 2 MBMS notification for MSs in dedicated mode (Rel-6)	Infineon	Approved
GP-050918	CR 44.018-447 MS reaction upon a change of the MP_CHANGE_MARK parameter (Rel 6)	Infineon	Revised
GP-051117	CR 44.018-447 rev 1 MS reaction upon a change of the MP_CHANGE_MARK parameter (Rel-6)	Infineon	Withdrawn
GP-051091	CR 44.018-448 Introduction of GSM 710 (Rel-4)	WTSC-G3GRA	Postponed
GP-051090	CR 44.018-449 Introduction of GSM 710 (Rel-5)	WTSC-G3GRA	Postponed
GP-051089	CR 44.018-450 Introduction of GSM 710 (Rel-6)	WTSC-G3GRA	Postponed
GP-050846	CR 44.018-451 Remove "Single Block MBMS Access" from EGPRS PACKET CHANNEL REQUEST (Rel-6)	TSG GERAN WG2	Approved
GP-050767	CR 44.031-134 Enabling the Providing of Velocity (Rel 7)	SiRF Technology	Revised
GP-050999	CR 44.031-134 rev 1 Enabling the Providing of Velocity (Rel-7)	SiRF Technology	Revised
GP-051116	CR 44.031-134 rev 2 Enabling the Providing of Velocity (Rel-7)	SiRF Technology	Revised
GP-051123	CR 44.031-134 rev 3 Enabling the Providing of Velocity (Rel-7)	SiRF Technology	Revised
GP-051159	CR 44.031-134 rev 4 Enabling the Providing of Velocity (Rel-7)	SiRF Technology	Approved
GP-050847	CR 44.060-611 rev 3 Addition of reconfiguration of an MBMS radio bearer (Rel-6)	TSG GERAN WG2	Approved
GP-050893	CR 44.060-614 rev 4 Addition of MBMS packet access procedure on MPRACH (Rel-6)	Ericsson, Siemens	Revised
GP-050986	CR 44.060-614 rev 5 Addition of MBMS packet access procedure on MPRACH (Rel-6)	Ericsson, Siemens	Approved
GP-050896	CR 44.060-617 rev 1 Inclusion of support for PS Handover for GERAN A/Gb mode (Rel-6)	Ericsson	Revised
GP-050989	CR 44.060-617 rev 2 Inclusion of support for PS Handover for GERAN A/Gb mode (Rel-6)	Ericsson	Postponed

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GP-050839	CR 44.060-637 rev 1 Correction to the rule of the SI1 presence depending on PSCD (Rel-6)	TSG GERAN WG2	Approved
GP-050794	CR 44.060-638 Description of T3220 (Rel-6)	Ericsson, Telecom Italia S.p.A.	Approved
GP-050848	CR 44.060-639 rev 1 Allow MS to initiate MBMS packet access in any cell (Rel-6)	TSG GERAN WG2	Approved
GP-050627	CR 44.060-640 rev 2 Extension of DTM to high multislot classes (Rel-6)	Siemens	Revised
GP-051005	CR 44.060-640 rev 3 Extension of DTM to high multislot classes (Rel-6)	Siemens	Revised
GP-051132	CR 44.060-640 rev 4 Extension of DTM to high multislot classes (Rel-6)	Siemens	Approved
GP-050849	CR 44.060-641 Editorial correction of MBMS ptm channel description IE (Rel-6)	TSG GERAN WG2	Approved
GP-050933	CR 44.060-642 rev 2 Reconfiguration of radio resources when RR connection is released (Rel 6)	Nokia	Revised
GP-050984	CR 44.060-642 rev 3 Reconfiguration of radio resources when RR connection is released (Rel-6)	Nokia	Approved
GP-051126	CR 44.060-642 rev 4 Reconfiguration of radio resources when RR connection is released (Rel-6)	Nokia	Withdrawn
GP-050929	CR 44.060-643 rev 1 BSS controlled RLC mode selection (Rel 6)	Siemens	Revised
GP-051017	CR 44.060-643 rev 2 BSS controlled RLC mode selection (Rel-6)	Siemens	Postponed
GP-050845	CR 44.060-644 rev 1 Align naming to MBMS Session Identity (Rel-6)	TSG GERAN WG2	Approved
GP-050698	CR 44.060-645 Correction of table reference for section 9.1.8.2 (SSN calculation for EGPRS) (Rel-6)	Rohde & Schwarz	Approved
GP-050703	CR 44.060-646 Mobile station behaviour when receiving PACKET CS COMMAND for enhanced DTM (Rel 6)	Siemens	Revised
GP-050983	CR 44.060-646 rev 1 Mobile station behaviour when receiving PACKET CS COMMAND for enhanced DTM (Rel-6)	Siemens	Withdrawn
GP-050770	CR 44.060-647 Editorial clean up of references in 44.060 (Rel-6)	NEC	Revised
GP-051018	CR 44.060-647 rev 1 Editorial clean up of references in 44.060 (Rel-6)	NEC	Approved

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GP-050795	CR 44.060-648 Addition of suspension/resumption of the reception of an MBMS radio bearer (Rel-6)	Telecom Italia S.p.A.	Revised
GP-050987	CR 44.060-648 rev 1 Addition of suspension/resumption of the reception of an MBMS radio bearer (Rel-6)	Telecom Italia S.p.A.	Revised
GP-051127	CR 44.060-648 rev 2 Addition of suspension/resumption of the reception of an MBMS radio bearer (Rel-6)	Telecom Italia S.p.A.	Approved
GP-050837	CR 44.060-649: Addition of PBCCH parameters to the MBMS Neighbouring Cell Information message (Rel-6)	Nokia	Approved
GP-050863	CR 44.060-650 Clarification on reduced NCH monitoring via Packet Paging Request message (Rel-6)	T-Mobile	Postponed
GP-050994	CR 44.060-651 MBMS notification for MSs in dedicated mode (Rel-6)	Infineon	Approved
GP-051009	CR 44.060-652 Clarification on mandatory support of Extended Dynamic Allocaion (Rel-6)	Siemens	Revised
GP-051135	CR 44.060-652 rev 1 Clarification on mandatory support of Extended Dynamic Allocaion (Rel-6)	Siemens	Approved
GP-051092	CR 44.060-653 Introduction of GSM 710 (Rel-4)	WTSC-G3GRA	Postponed
GP-051093	CR 44.060-654 Introduction of GSM 710 (Rel-5)	WTSC-G3GRA	Postponed
GP-051094	CR 44.060-655 Introduction of GSM 710 (Rel-6)	WTSC-G3GRA	Postponed
GP-051118	CR 44.060-656 Introduction of GSM 710 (Rel-7)	WTSC-G3GRA	Postponed
GP-050788	CR 44.118-110 GSM 750 corrections (Rel-5)	WTSC-G3GRA	Approved
GP-050789	CR 44.118-111 GSM 750 corrections (Rel-6)	WTSC-G3GRA	Approved
GP-050790	CR 44.118-112 Introduction of GSM 710 (Rel-7)	WTSC-G3GRA	Approved
GP-050775	CR 45.001-039 GSM 750 corrections (Rel-4)	WTSC-G3GRA	Approved
GP-050776	CR 45.001-040 GSM 750 corrections (Rel-5)	WTSC-G3GRA	Approved
GP-050777	CR 45.001-041 GSM 750 corrections (Rel-6)	WTSC-G3GRA	Approved
GP-050778	CR 45.001-042 Introduction of GSM 710 (Rel-7)	WTSC-G3GRA	Approved
GP-050628	CR 45.002-097 Extension of DTM to high multislot classes (Rel-6)	Siemens	Revised
GP-051064	CR 45.002-097 rev 1 Extension of DTM to high multislot classes (Rel-6)	Siemens	Approved
GP-050709	CR 45.002-098 Clarification on non-contiguous assigned timeslots (Rel-6)	Siemens, Nokia	Approved

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GP-050932	CR 45.002-099 UL timeslots allocation for MBMS (Rel-6)	Nortel	Revised
GP-051057	CR 45.002-099 rev 1 UL timeslots allocation for MBMS (Rel-6) – WITHDRAWN	Nortel	Withdrawn
GP-050906	CR 45.005-102 rev 3 Performance requirements for Repeated FACCH (Rel-6)	Ericsson	Approved
GP-050779	CR 45.005-103 GSM 750 corrections (Rel-4)	WTSC-G3GRA	Revised
GP-051058	CR 45.005-103 rev 1 GSM 750 corrections (Rel-4)	WTSC-G3GRA	Approved
GP-050780	CR 45.005-104 GSM 750 corrections (Rel-5)	WTSC-G3GRA	Revised
GP-051059	CR 45.005-104 rev 1 GSM 750 corrections (Rel-5)	WTSC-G3GRA	Approved
GP-050781	CR 45.005-105 GSM 750 corrections (Rel-6)	WTSC-G3GRA	Revised
GP-051060	CR 45.005-105 rev 1 Introduction of GSM 710 (Rel-6)	WTSC-G3GRA	Approved
GP-050782	CR 45.005-106 Introduction of GSM 710 (Rel-7)	WTSC-G3GRA	Revised
GP-051061	CR 45.005-106 rev 1 Introduction of GSM 710 (Rel-7)	WTSC-G3GRA	Approved
GP-050955	CR 45.005-107 Performance requirements for E-TCH/F32.0	Ericsson, Nokia, Siemens	Revised
GP-051053	CR 45.005-107 rev 1 Performance requirements for E-TCH/F32.0 (Rel 6)	Ericsson, Nokia, Siemens	Approved
GP-050974	CR 45.005-108 Clarification on the wanted signal level for adjacent channel performance (Rel-6)	Siemens	Approved
GP-051055	CR 45.005-109 Performance requirements for E-TCH/F32.0 (Rel 4)	Ericsson, Nokia, Siemens	Approved
GP-051056	CR 45.005-110 Performance requirements for E-TCH/F32.0 (Rel 5)	Ericsson, Nokia, Siemens	Approved
GP-050869	CR 45.008-263 2G-3G cell reselection without PBCCH (Rel-6)	Nortel	Approved
GP-050931	CR 45.008-264 Clarification on GPRS downlink power control PR mode A (Rel-6)	Nortel	Rejected
GP-050862	CR 45.010-033 Clarification of MS requirements for synchronization (Rel-6)	Siemens	Approved
GP-050855	CR 48.008-151 rev 3 Correction of VGCS uplink seize description (Rel-6)	TSG GERAN WG2	Approved
GP-050856	CR 48.008-152 rev 1 Removal of redundant VGCS parameters (Rel-6)	TSG GERAN WG2	Revised

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GP-050702	CR 48.008-152 rev 2 Removal of redundant VGCS parameters (Rel 6)	Siemens	Revised
GP-051011	CR 48.008-152 rev 3 Removal of redundant VGCS parameters (Rel-6)	Siemens	Approved
GP-050941	CR 48.008-153 Transparent data call request in dual mode case (Rel 6)	Nokia, Ericsson	Postponed
GP-050768	CR 48.008-154 Enabling the Providing of Velocity (Rel 7)	SiRF Technology	Revised
GP-051000	CR 48.008-154 rev 1 Enabling the Providing of Velocity (Rel-7)	SiRF Technology	Revised
GP-051122	CR 48.008-154 rev 2 Enabling the Providing of Velocity (Rel-7)	SiRF Technology	Approved
GP-050827	CR 48.008-155 Adding of IMSI and IMEI to PERFORM LOCATION REQUEST message (Rel 6)	Nortel, T-Mobile	Revised
GP-051015	CR 48.008-155 rev 1 Adding of IMSI and IMEI to PERFORM LOCATION REQUEST message (Rel-6)	Nortel, T-Mobile	Withdrawn
GP-050850	CR 48.016-022 rev 1 Selection of remote IP endpoint for Point-to-Multipoint NS-SDUs (Rel-6)	TSG GERAN WG2	Approved
GP-050851	CR 48.018-113 rev 5 SI3 RIM application (Rel-6)	TSG GERAN WG2	Approved
GP-050852	CR 48.018-114 rev 4 MBMS Data Channel RIM application (Rel-6)	TSG GERAN WG2	Approved
GP-050897	CR 48.018-122 rev 1 Inclusion of support for PS Handover for GERAN A/Gb mode (Rel-6)	Ericsson	Revised
GP-050990	CR 48.018-122 rev 2 Inclusion of support for PS Handover for GERAN A/Gb mode (Rel-6)	Ericsson	Postponed
GP-050928	CR 48.018-123 rev 3 Inclusion of IMSI in all downlink LLC PDUs for DTM (Rel 6)	Siemens	Rejected
GP-050853	CR 48.018-124 rev 3 Intra-domain connection of RAN nodes to multiple CN nodes (Rel-6)	TSG GERAN WG2	Approved
GP-050854	CR 48.018-125 rev 1 Wrong name and reference for MBMS Session Identifier IE (Rel-6)	TSG GERAN WG2	Approved
GP-050828	CR 48.018-126 Adding of IMEI to PERFORM-LOCATION-REQUEST PDU(Rel 6)	Nortel, T-Mobile	Revised
GP-051016	CR 48.018-126 rev 1 Adding of IMEI to PERFORM-LOCATION-REQUEST PDU (Rel-6)	Nortel, T-Mobile	Postponed
GP-050900	CR 48.018-127 Making the RIM containers truly transparent to the core network	Ericsson	Revised

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GP-051020	CR 48.018-127 rev 1 Making the RIM containers truly transparent to the core network (Rel-6)	Ericsson	Revised
GP-051155	CR 48.018-127 rev 2 Making the RIM containers truly transparent to the core network (Rel-6)	Ericsson	Postponed
GP-050901	CR 48.018-128 Always use the RAN-INFORMATION-APPLICATION-ERROR PDU to transport the Application Error container	Ericsson	Rejected
GP-050902	CR 48.018-129 Sending of PSI14 in NACC RIM application	Ericsson	Postponed
GP-051087	CR 48.018-130 Making the RIM containers truly transparent to the core network (Rel-5)	Ericsson	Revised
GP-051156	CR 48.018-130 rev 1 Making the RIM containers truly transparent to the core network (Rel-5)	Ericsson	Postponed
GP-051158	CR 48.018-131 Enabling the Providing of Velocity (Rel-7)	SiRF Technology	Approved
GP-050865	CR 48.058-018 rev 1 Inconsistency of Group Channel Description (Rel 6)	Alcatel	Withdrawn
GP-050826	CR 49.031-038 rev 1 Adding of IMSI and IMEI to PERFORM LOCATION REQUEST message (Rel 6)	Nortel, T-Mobile	Revised
GP-051014	CR 49.031-038 rev 2 Adding of IMSI and IMEI to PERFORM LOCATION REQUEST message (Rel-6)	Nortel, T-Mobile	Withdrawn
GP-050769	CR 49.031-039 Enabling the Providing of Velocity (Rel 7)	SiRF Technology	Revised
GP-051001	CR 49.031-039 rev 1 Enabling the Providing of Velocity (Rel-7)	SiRF Technology	Revised
GP-051121	CR 49.031-039 rev 2 Enabling the Providing of Velocity (Rel-7)	SiRF Technology	Revised
GP-051157	CR 49.031-039 rev 3 Enabling the Providing of Velocity (Rel-7)	SiRF Technology	Approved
GP-050822	CR 49.995-001 Negotiation of SNDCP Compression Entities (Rel 4)	Nortel, Nokia, Siemens	Approved
GP-050980	CR 49.995-001 rev 1 Negotiation of SNDCP Compression Entities (Rel-4)	Nortel, Nokia, Siemens	Withdrawn
GP-050996	CR 49.995-001 rev 2 Negotiation of SNDCP Compression Entities (Rel-4)	Nortel, Nokia, Siemens	Withdrawn
GP-050823	CR 49.995-002 Negotiation of SNDCP Compression Entities (Rel 5)	Nortel, Nokia, Siemens	Approved

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GP-050981	CR 49.995-002 rev 1 Negotiation of SNDCP Compression Entities (Rel-5)	Nortel, Nokia, Siemens	Withdrawn
GP-050997	CR 49.995-002 rev 2 Negotiation of SNDCP Compression Entities (Rel-5)	Nortel, Nokia, Siemens	Withdrawn
GP-050824	CR 49.995-003 Negotiation of SNDCP Compression Entities (Rel 6)	Nortel, Nokia, Siemens	Approved
GP-050982	CR 49.995-003 rev 1 Negotiation of SNDCP Compression Entities (Rel-6)	Nortel, Nokia, Siemens	Withdrawn
GP-050998	CR 49.995-003 rev 2 Negotiation of SNDCP Compression Entities (Rel-6)	Nortel, Nokia, Siemens	Withdrawn
GP-050615	CR 51.010-1-2740 14.11.1.1 DARP Speech bearer tests / TCH/FS / DTS-1 (new test)	RIM	Approved
GP-050616	CR 51.010-1-2741 14.4.1 TUHigh Not Applicable to DARP Capable MS	RIM	Approved
GP-050617	CR 51.010-1-2742 21.3.1 Signal Quality under static conditions - TCH/FS (modified test)	RIM	Approved
GP-050618	CR 51.010-1-2743 21.3.4 Signal Quality under static conditions - TCH/AHS DTX Off (modified test)	RIM	Approved
GP-050619	CR 51.010-1-2744 21.3.6 Signal Quality under static conditions - TCH/AHS DTX On (new test)	RIM	Approved
GP-050635	CR 51.010-1-2745 Correction to test case 27.21.2 to the "Maximum frequency of ACM updating" test	Ericsson	Approved
GP-050636	CR 51.010-1-2746 Addition of PICS to test case 46.1.2.2.2.4	Ericsson	Withdrawn
GP-050639	CR 51.010-1-2747 Correction to test case 42.4.5.3	Ericsson	Approved
GP-050640	CR 51.010-1-2748 Correction to test case 46.2.2.1.4	Ericsson	Revised
GP-051045	CR 51.010-1-2748 rev 1 Correction to test case 46.2.2.1.4	Ericsson	Approved
GP-050641	CR 51.010-1-2749 Section 14.18.5 Blocking and spurious response	Rohde & Schwarz	Approved
GP-050642	CR 51.010-1-2750 Section 14.16 GPRS receiver tests - Number of RLC blocks depending on mumber of used slots under fading conditons	Rohde & Schwarz	Approved
GP-050643	CR 51.010-1-2751 Section 14.16.2 GPRS co-channel rejection – correction of table reference	Rohde & Schwarz	Approved
GP-050644	CR 51.010-1-2752 Section 14.16.4.1 DARP GPRS tests - Synchronous single co-channel interferer (DTS-1)	Rohde & Schwarz	Approved

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GP-050645	CR 51.010-1-2753 Section 14.16.4.2 DARP GPRS tests - Synchronous multiple interferers (DTS-2 / DTS-3)	Rohde & Schwarz	Approved
GP-050646	CR 51.010-1-2754 Section 14.16.4.2 CR Blocking and spurious response	Rohde & Schwarz	Withdrawn
GP-050647	CR 51.010-1-2755 Section 22.3 GPRS Uplink Power Control - Use of and CH parameters	Rohde & Schwarz	Approved
GP-050649	CR 51.010-1-2756 Section Annex A7.1 Statistical testing of receiver performance	Rohde & Schwarz	Approved
GP-050650	CR 51.010-1-2757 42.4.4.5 - New TC based on previous 42.4.4.4	Wavecom	Approved
GP-050651	CR 51.010-1-2758 20.22.14 Cell Reselection in case Cell reselection occurred in the previous 15 s	Wavecom	Approved
GP-050652	CR 51.010-1-2759 42.4.5.3 - Modification of power reselection parameters	Wavecom	Withdrawn
GP-050656	CR 51.010-1-2760 TC 34.2.5.2 Change in initial conditions	NEC	Approved
GP-050658	CR 51.010-1-2761 New clause 42.9 added for Extended dynamic allocation test cases	NEC	Revised
GP-050957	CR 51.010-1-2761 rev 1 New clause 42.9 added for Extended dynamic allocation test cases	NEC	Revised
GP-051037	CR 51.010-1-2761 rev 2 New clause 42.9 added for Extended dynamic allocation test cases	NEC	Approved
GP-050659	CR 51.010-1-2762 New clause 52.9 added for Extended dynamic allocation test cases	NEC	Revised
GP-050958	CR 51.010-1-2762 rev 1 New clause 52.9 added for Extended dynamic allocation test cases	NEC	Revised
GP-051038	CR 51.010-1-2762 rev 2 New clause 52.9 added for Extended dynamic allocation test cases	NEC	Revised
GP-051101	CR 51.010-1-2762 rev 3 New clause 52.9 added for Extended dynamic allocation test cases	NEC	Approved
GP-050662	CR 51.010-1-2763 41.3.2.3 - Minor correction to test procedure and expected sequence	Anite	Approved
GP-050663	CR 51.010-1-2764 41.3.6.9 - Revise testcase in accordance with revised Conformance Requirement	Anite	Approved
GP-050664	CR 51.010-1-2765 51.1.1.4 - Correction to page mode in step 14	Anite	Approved

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GP-050665	CR 51.010-1-2766 51.3.6.9 - Revise testcase in accordance with revised Conformance Requirement	Anite	Approved
GP-050666	CR 51.010-1-2767 52.3.2.1.2 - Corrections to step references and timings	Anite	Approved
GP-050667	CR 51.010-1-2768 26.7.4.5.4.3 - Correct start of VPLMN Search Timer	Anite	Withdrawn
GP-050669	CR 51.010-1-2769 42.1.2.1.2 - Allow for two phase access.	Anite	Approved
GP-050670	CR 51.010-1-2770 51.2.2.4, 51.2.2.5, 51.2.5.2 - Allow for two phase access.	Anite	Revised
GP-051049	CR 51.010-1-2770 rev 1 51.2.2.4, 51.2.2.5, 51.2.5.2 – Allow for two phase access.	Anite	Approved
GP-050671	CR 51.010-1-2771 52.1.2.1.2 - Allow for two phase access.	Anite	Approved
GP-050672	CR 51.010-1-2772 70.8.4.1 - Incorrect missing IE	Anite	Approved
GP-050674	CR 51.010-1-2773 42.3.1.2.2 - The amount of data triggered in step 1 is not sufficient	Anite	Withdrawn
GP-050675	CR 51.010-1-2774 42.3.3.1.1 - MS may transmit data blocks before transmitting Packet Resource Request at step 6 and it may retransmit Packet Resource Request at step 8	Anite	Approved
GP-050676	CR 51.010-1-2775 42.4.1.2 - The check for the reporting period to be removed at Step 12	Anite	Approved
GP-050677	CR 51.010-1-2776 42.4.2.1.3 - Optional step to receive measurement report is required.	Anite	Revised
GP-051034	CR 51.010-1-2776 rev 1 42.4.2.1.3 - Optional step to receive measurement report is required.	Anite	Approved
GP-050678	CR 51.010-1-2777 42.4.2.1.4 - MS may transmit Packet Channel Request at step 8 and step 13 with the Cause Cell Update.	Anite	Approved
GP-050680	CR 51.010-1-2778 52.3.1.2.2 - The amount of data triggered in step 1 is not sufficient	Anite	Withdrawn
GP-050681	CR 51.010-1-2779 52.3.3.1.1 - MS may transmit data blocks before transmitting Packet Resource Request at step 6 and it may retransmit Packet Resource Request at step 8	Anite	Approved
GP-050682	CR 51.010-1-2780 A5.2 New test signals for DARP tests.	Aeroflex	Approved

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GP-050683	CR 51.010-1-2781 14.11.2.1 DARP Speech bearer tests / TCH/AFS / DTS-1	Aeroflex	Approved
GP-050684	CR 51.010-1-2782 14.11.2.2 DARP Speech bearer tests / TCH/AFS / DTS-4 (new test)	Aeroflex	Revised
GP-051022	CR 51.010-1-2782 rev 1 14.11.2.2 DARP Speech bearer tests / TCH/AFS / DTS-4 (new test)	Aeroflex	Approved
GP-050685	CR 51.010-1-2783 14.11.2.3 DARP Speech bearer tests / TCH/AFS / DTS-2/3/5 (new test)	Aeroflex	Revised
GP-051023	CR 51.010-1-2783 rev 1 14.11.2.3 DARP Speech bearer tests / TCH/AFS / DTS-2/3/5 (new test)	Aeroflex	Approved
GP-050686	CR 51.010-1-2784 14.11.3.1 DARP Speech bearer tests / TCH/AHS / DTS-1 (new test)	Aeroflex	Revised
GP-051024	CR 51.010-1-2784 rev 1 14.11.3.1 DARP Speech bearer tests / TCH/AHS / DTS-1 (new test)	Aeroflex	Approved
GP-050687	CR 51.010-1-2785 14.11.3.3 DARP Speech bearer tests / TCH/AHS / DTS-2/3 (new test)	Aeroflex	Approved
GP-050690	CR 51.010-1-2786 14.1.5, 14.1.6 BFI – clarification of test conditions	Aeroflex	Approved
GP-050691	CR 51.010-1-2787 14.2.19, 14.2.20, 14.4.17, 14.4.18 Inband FER – clarification of test procedure	Aeroflex	Revised
GP-051099	CR 51.010-1-2787 rev 1 14.2.19, 14.2.20, 14.4.17, 14.4.18 Inband FER clarification of test procedure	Aeroflex	Revised
GP-051108	CR 51.010-1-2787 rev 2 14.2.19, 14.2.20, 14.4.17, 14.4.18 Inband FER clarification of test procedure	Aeroflex	Approved
GP-050693	CR 51.010-1-2788 14.4.8 Co-channel rejection - TCH/AFS – corrections and addition of DARP applicability	Aeroflex	Approved
GP-050694	CR 51.010-1-2789 14.4.16 Co-channel rejection - TCH/AHS – clarifications and addition of DARP applicability	Aeroflex	Approved
GP-050696	CR 51.010-1-2790 21.3.3 Signal quality under static conditions – TCH/AFS – DTX off	Aeroflex	Approved
GP-050697	CR 51.010-1-2791 Section 14 AMR tests – clarification of expected test duration	Aeroflex	Approved
GP-050700	CR 51.010-1-2792 26.6.11.3 - Correction to CLASSMARK CHANGE response time requirement	Anite	Withdrawn
GP-050710	CR 51.010-1-2793 Section 28.4 Behaviour of the MS when its list of blacklisted numbers is full	Cetecom	Approved

Tdoc	Title	Source	Agenda Item
GP-050714	CR 51.010-1-2794 TC 13.17.2 Frequency error under multipath and interference conditions	Siemens AG	Approved
GP-050715	CR 51.010-1-2795 TC 13.17.4 Output RF spectrum in EGPRS configuration	Siemens AG	Approved
GP-050716	CR 51.010-1-2796 TC 14.18 EGPRS receiver tests	Siemens AG	Approved
GP-050717	CR 51.010-1-2797 TC 42.4.1.2 Network Control measurement reporting / Idle mode / New cell reselection	Siemens AG	Revised
GP-051067	CR 51.010-1-2797 rev 1 TC 42.4.1.2 Network Control measurement reporting / Idle mode / New cell reselection	Siemens AG	Revised
GP-051085	CR 51.010-1-2797 rev 2 TC 42.4.1.2 Network Control measurement reporting / Idle mode / New cell reselection	Siemens AG	Approved
GP-050718	CR 51.010-1-2798 TC 42.4.2.1.4 Cell change order procedure / Uplink transfer / Failure cases / Contention resolution failure	Siemens AG	Withdrawn
GP-050743	CR 51.010-1-2799 Corrections to step numbering in 70.8.5.1	Spirent Communications	Approved
GP-050744	CR 51.010-1-2800 Corrections and changes to section 10.9 and A-GPS data file	Spirent Communications	Approved
GP-050745	CR 51.010-1-2801 Section 40: PACKET UL/DL ASSIGNMENT and PACKET TIMESLOT RECONFIGURE should not have frequency parameters present in case MS is in DTM mode.	Setcom	Approved
GP-050746	CR 51.010-1-2802 Section 47.3.2.1 Handover to different routeing area whilst in DM / Performed on main DCCH / RAU complete before CS release	Setcom	Approved
GP-050749	CR 51.010-1-2803 GPRS_RESELECT_OFFSET of cell B changed in 42.3.1.2.2 and 42.3.1.2.3 changed	Setcom	Withdrawn
GP-050750	CR 51.010-1-2804 GPRS_RESELECT_OFFSET of cell B changed in 52.3.1.2.2 and 52.3.1.2.3 changed	Setcom	Withdrawn
GP-050751	CR 51.010-1-2805 26.10.2.4.2 E-GSM or R-GSM signalling / RR / Handover / layer 1 failure	Setcom	Approved
GP-050752	CR 51.010-1-2806 26.10.3.2 E-GSM or R-GSM signalling / Structured procedures / emergency call	Setcom	Approved
GP-050753	CR 51.010-1-2807 26.11.3.1.2 Location updating / periodic	Setcom	Withdrawn
GP-050754	CR 51.010-1-2808 PACKET UL/DL ASSIGNMENT and PACKET TIMESLOT RECONFIGURE should not have frequency parameters present in case MS is in DTM mode	Setcom	Approved

Tdoc	Title	Source	Agenda Item
GP-050747	CR 51.010-1-2809 Section 47.4.1 PDP Context Activation / Performed on main DCCH and TBFs	Setcom	Withdrawn
GP-050796	CR 51.010-1-2810 Section 26.16.9.10 – Inversion of the phase of the CMI/CMR – Step number corrected	Rohde & Schwarz	Approved
GP-050797	CR 51.010-1-2811 Section 41.3.2.3 TBF release / Uplink / Normal / Network initiated / Whilst in DTM – Step renumbering	Rohde & Schwarz	Withdrawn
GP-050798	CR 51.010-1-2812 Section 41.3.6.10 TBF Release / Extended Uplink / Change of RLC mode / Abnormal release – Used Context corrected	Rohde & Schwarz	Revised
GP-051028	CR 51.010-1-2812 rev 1 Section 41.3.6.10 TBF Release / Extended Uplink / Change of RLC mode / Abnormal release – Used Context corrected	Rohde & Schwarz	Approved
GP-050799	CR 51.010-1-2813 Section 41.3.6.9 TBF Release / Extended Uplink / Change of RLC mode / Normal release – Used contexts corrected	Rohde & Schwarz	Withdrawn
GP-050801	CR 51.010-1-2814 Section 41.5.1.1.2.3.5 - Uplink TBF establishment with reallocation of CS resources / Abnormal case / Multislot class violation / Incorrect Allocation – Cause Value corrected	Rohde & Schwarz	Revised
GP-051068	CR 51.010-1-2814 rev 1 Section 41.5.1.1.2.3.5 - Uplink TBF establishment with reallocation of CS resources / Abnormal case / Multislot class violation / Incorrect Allocation – Cause Value corrected	Rohde & Schwarz	Approved
GP-050802	CR 51.010-1-2815 Section - 41.5.2.2 MT CS establishment whilst in packet transfer mode with a uplink TBF established - Authentication and Ciphering added	Rohde & Schwarz	Approved
GP-050803	CR 51.010-1-2816 Section 41.5.2.3 - MO CS establishment whilst in packet transfer mode with uplink and downlink TBFs established – sequenced swapped	Rohde & Schwarz	Approved
GP-050804	CR 51.010-1-2817 Section 42.1.2.2.3 – Packet Downlink Assignemnt / Frequency Parameters - CA length modified for PCN and PCS bands	Rohde & Schwarz	Approved
GP-050805	CR 51.010-1-2818 Section 42.1.2.2.5.1 - Packet Downlink Assignment / Abnormal cases Incorrect PDCH assignment – Align with Mirror test	Rohde & Schwarz	Approved
GP-050806	CR 51.010-1-2819 Section 42.4.6.1 Clarification of Specific Message Contents	Rohde & Schwarz	Approved
GP-050807	CR 51.010-1-2820 Section 42.4.8.3.4 Correction of Expected Sequence	Rohde & Schwarz	Revised

Tdoc	Title	Source	Agenda Item
GP-051035	CR 51.010-1-2820 rev 1 Section 42.4.8.3.4 Correction of Expected Sequence	Rohde & Schwarz	Approved
GP-050808	CR 51.010-1-2821 Section 42.4.8.4.3 Correction of Initial Conditions and Specific message contents	Rohde & Schwarz	Approved
GP-050809	CR 51.010-1-2822 Section 44.2.3.1.4 - Routing area updating / rejected / location area not allowed – Detach Accept added	Rohde & Schwarz	Approved
GP-050810	CR 51.010-1-2823 Section 44.2.3.1.4 - Routing area updating / rejected / location area not allowed – SIM removal considered	Rohde & Schwarz	Withdrawn
GP-050811	CR 51.010-1-2824 Section 46.1.2.5.4 Frame reject condition during establishment of ABM – Removal of Superfluous information	Rohde & Schwarz	Approved
GP-050812	CR 51.010-1-2825 Section 46.1.2.7.6 Negotiation initiated by the SS (during ABM, for Reset) – Reducing test time	Rohde & Schwarz	Approved
GP-050813	CR 51.010-1-2826 Section 46.2.2.4.1 Response from MS on receiving XID request from the SS – adding new header compression algorithms	Rohde & Schwarz	Approved
GP-050814	CR 51.010-1-2827 Section 47.4.1 - PDP Context Activation / Performed on main DCCH and TBFs – Change to TCH/F	Rohde & Schwarz	Approved
GP-05081	CR 51.010-1-2828 section 51.3.6.10 - TBF Release / Extended Uplink / Change of RLC mode / Abnormal release – Used Context corrected	Rohde & Schwarz	Revised
GP-051027	CR 51.010-1-2828 rev 1 section 51.3.6.10 - TBF Release / Extended Uplink / Change of RLC mode / Abnormal release – Used Context corrected	Rohde & Schwarz	Approved
GP-050816	CR 51.010-1-2829 section 51.3.6.9 TBF Release / Extended Uplink / Change of RLC mode / Normal release – Used contexts corrected	Rohde & Schwarz	Withdrawn
GP-050817	CR 51.010-1-2830 Section 52.1.2.1.8.1.6, 52.1.2.1.8.1.7, 52.1.2.1.8.1.8 Handling of MS requesting one phase access.	Rohde & Schwarz	Approved
GP-050829	CR 51.010-1-2831 Addition of missing Supplementary Services message content to MO-LR A-GPS test cases, and correction to MO-LR transfer to 3rd Party	Qualcomm	Revised
GP-051047	CR 51.010-1-2831 rev 1 Addition of missing Supplementary Services message content to MO-LR A-GPS test cases, and correction to MO-LR transfer to 3rd Party	Qualcomm	Approved

Tdoc	Title	Source	Agenda Item
GP-050830	CR 51.010-1-2832 Completion of A-GPS MT-LR test cases	Qualcomm	Withdrawn
GP-050832	CR 51.010-1-2833 Removal of A-GPS NI-LR test cases on SDCCH	Qualcomm	Approved
GP-050834	CR 51.010-1-2834 New A-GPS NI-LR emergency call test cases without SIM inserted	Qualcomm	Approved
GP-050870	CR 51.010-1-2835 Editorial modifications in the section 20.22.	SASKEN	Approved
GP-050871	CR 51.010-1-2836 Changes in the timing requirement of the testcases 20.22.4.	SASKEN	Approved
GP-050872	CR 51.010-1-2837 Changes in the timing requirement of the testcases 20.22.5.	SASKEN	Revised
GP-051077	CR 51.010-1-2837 rev 1 Changes in the timing requirement of the test cases 20.22.5.	SASKEN	Approved
GP-050873	CR 51.010-1-2838 Changes in the timing requirement of the testcases 20.22.7.	SASKEN	Revised
GP-051046	CR 51.010-1-2838 rev 1 Changes in the timing requirement of the testcases 20.22.7.	SASKEN	Approved
GP-050875	CR 51.010-1-2839 Changes in the initial condition of the testcase 41.2.2.3	SASKEN	Approved
GP-050876	CR 51.010-1-2840 Changes in the ACCESS_TYPE used in the PACKET RESOURCE REQUEST in the testcase 42.3.1.2.3	SASKEN	Approved
GP-050877	CR 51.010-1-2841 Changes in the specific message content of the testcase 47.3.2.1.	SASKEN	Approved
GP-050878	CR 51.010-1-2842 Changes in the testcase 47.3.2.2.	SASKEN	Approved
GP-050879	CR 51.010-1-2843 Changes in the testcase 47.3.2.2.	SASKEN	Approved
GP-050880	CR 51.010-1-2844 Changes in the ACCESS_TYPE used in the PACKET RESOURCE REQUEST in the testcase 52.3.1.2.3	SASKEN	Approved
GP-050881	CR 51.010-1-2845 Changes in the testcases 44.2.3.2.7, 44.2.3.2.3.3.2, 44.2.1.2.2.3.2	SASKEN	Approved
GP-050874	CR 51.010-1-2846 Changes in the initial conditions of the testcases 20.25.4.	SASKEN	Approved
GP-050883	CR 51.010-1-2847 Editorial corrections to specific message content of step 1 in 42.4.2.3.6	SASKEN	Approved

Tdoc	Title	Source	Agenda Item
GP-050884	CR 51.010-1-2848 Correction to step 7 of 42.4.2.3.7	SASKEN	Approved
GP-050885	CR 51.010-1-2849 Changes in the expeted test sequence in the testcase 42.3.1.2.2	SASKEN	Revised
GP-051043	CR 51.010-1-2849 rev 1 Changes in the expeted test sequence in the testcase 42.3.1.2.2	SASKEN	Approved
GP-050886	CR 51.010-1-2850 Changes in the expeted sequence in the testcase 52.3.1.2.2	SASKEN	Revised
GP-051044	CR 51.010-1-2850 rev 1 Changes in the expeted sequence in the testcase 52.3.1.2.2	SASKEN	Approved
GP-050908	CR 51.010-1-2851 Section 20.22.14 - Cell Reselection in case Cell reselection occurred in the previous 15 s	Rohde & Schwarz	Withdrawn
GP-050909	CR 51.010-1-2852 Section 26.6.5.3 - Handover / successful / active call / finely synchronized	Rohde & Schwarz	Approved
GP-050655	CR 51.010-1-2853 42.4.8.1.x - Correction of Page Mode in Non-DRX test set.	Wavecom	Revised
GP-051080	CR 51.010-1-2853 rev 1 42.4.8.1.x - Correction of Page Mode in Non-DRX test set.	Wavecom	Revised
GP-051104	CR 51.010-1-2853 rev 2 42.4.8.1.x - Correction of Page Mode in Non-DRX test set.	Wavecom	Approved
GP-050914	CR 51.010-1-2854 Section 42.1.2.1.8.1.6 - Handling of MS requesting one phase access	Rohde & Schwarz	Approved
GP-050967	CR 51.010-1-2855 Update of the test case 20.25.2 in TS 51.010-1	Motorola	Approved
GP-050968	CR 51.010-1-2856 Section 42.4.1.1 - NC reporting period is too less	Sasken	Revised
GP-051036	CR 51.010-1-2856 rev 1 Section 42.4.1.1 - NC reporting period is too less	Sasken	Approved
GP-050756	CR 51.010-1-2857 Correction to Handover to UTRAN Command for 60.1	STF272	Revised
GP-050972	CR 51.010-1-2857 rev 1 Correction to Handover to UTRAN Command for 60.1	STF272	Approved
GP-050970	CR 51.010-1-2858 42.4.5.9 Network Assisted Cell Change / NC mode change / Packet Neighbour Cell Data	Setcom	Approved
GP-050818	CR 51.010-1-2859 Section 53.1.1.13 - Acknowledged Mode/ Uplink TBF/ Calculation of BSN2 – aligning the test procedure	Rohde & Schwarz	Revised

Tdoc	Title	Source	Agenda Item
GP-050976	CR 51.010-1-2859 rev 1 Section 53.1.1.13 - Acknowledged Mode/ Uplink TBF/ Calculation of BSN2 – aligning the test procedure	Rohde & Schwarz	Approved
GP-051025	CR 51.010-1-2860 Section 42.4.8.3.6 Network Control measurement reporting / Dedicated connection / Assignment Reject/	Setcom	Revised
GP-051048	CR 51.010-1-2860 rev 1 Section 42.4.8.3.6 Network Control measurement reporting / Dedicated connection / Assignment Reject/	Setcom	Approved
GP-051021	CR 51.010-1-2861 Sections 13.7.5, 13.16.2.5, 13.17.3 Transmitter output power reduction in case of multislot uplink configuration	Infineon Technologies	Approved
GP-051030	CR 51.010-1-2862 14.11.4 DARP Speech bearer tests / FACCH (new test)	Qualcomm	Revised
GP-051081	CR 51.010-1-2862 rev 1 14.11.4 DARP Speech bearer tests / FACCH (new test)	Qualcomm	Approved
GP-051031	CR 51.010-1-2863 MS Radio Access Capability Interrogation (new test)	Qualcomm	Revised
GP-051083	CR 51.010-1-2863 rev 1 MS Radio Access Capability Interrogation (new test)	Qualcomm	Approved
GP-051110	CR 51.010-1-2864 Section 42.3.1.2.2 and 42.3.1.2.3	Siemens	Approved
GP-051111	CR 51.010-1-2865 Section 52.3.1.2.2 and 52.3.1.2.3	Siemens	Approved
GP-050614	CR 51.010-2-229 Annex B, Table B.1: Applicability for 46.1.2.7.2 corrected	7layers	Approved
GP-050620	CR 51.010-2-230 14.11.1.1 DARP Speech bearer tests / TCH/FS / DTS-1 (new test)	RIM	Revised
GP-051069	CR 51.010-2-230 rev 1 14.11.1.1 DARP Speech bearer tests / TCH/FS / DTS-1 (new test)	RIM	Approved
GP-050621	CR 51.010-2-231 21.3.6 Signal Quality under static conditions - TCH/AHS DTX On (new test)	RIM	Revised
GP-051070	CR 51.010-2-231 rev 1 21.3.6 Signal Quality under static conditions – TCH/AHS DTX On (new test)	RIM	Approved
GP-050637	CR 51.010-2-232 Addition of PICS to test case 46.1.2.2.2.4	Ericsson	Withdrawn
GP-050638	CR 51.010-2-233 Test case 47.3.1.1 missing	Ericsson	Approved
GP-050648	CR 51.010-2-234 Section Annex B Addition of new GPRS DARP test cases	Rohde & Schwarz	Revised

Tdoc	Title	Source	Agenda Item
GP-050949	CR 51.010-2-234 rev 1 Section Annex B Addition of new GPRS DARP test cases	Rohde & Schwarz	Revised
GP-051076	CR 51.010-2-234 rev 2 Section Annex B Addition of new GPRS DARP test cases	Rohde & Schwarz	Approved
GP-050653	CR 51.010-2-235 20.22.14 - Cell Reselection in case Cell reselection occurred in the previous 15 s	Wavecom	Approved
GP-050654	CR 51.010-2-236 42.4.4.5 - New TC based for Rel-6	Wavecom	Approved
GP-050657	CR 51.010-2-238 Reinsert applicability for TC 47.3.1.1 in table B.1	NEC	Withdrawn
GP-050660	CR 51.010-2-239 Additions in table A1 A2 and B1 for Extended dynamic allocation	NEC	Revised
GP-051073	CR 51.010-2-239 rev 1 Additions in table A1 A2 and B1 for Extended dynamic allocation	NEC	Revised
GP-051102	CR 51.010-2-239 rev 2 Additions in table A1 A2 and B1 for Extended dynamic allocation	NEC	Revised
GP-051105	CR 51.010-2-239 rev 3 Additions in table A1 A2 and B1 for Extended dynamic allocation	NEC	Approved
GP-050668	CR 51.010-2-240 Annex B - Miscellaneous inconsistencies wrt 51.010-1	Anite	Approved
GP-050679	CR 51.010-2-241 44.2.x - Corrections to the Test case Applicability Table.	Anite	Revised
GP-051082	CR 51.010-2-241 rev 1 44.2.x - Corrections to the Test case Applicability Table.	Anite	Approved
GP-050688	CR 51.010-2-242 A4.8, Annex B DARP release applicability	Aeroflex	Approved
GP-050689	CR 51.010-2-243 Annex B new DARP tests TCH/AFS and TCH/AHS	Aeroflex	Revised
GP-051071	CR 51.010-2-243 rev 1 Annex B new DARP tests TCH/AFS and TCH/AHS	Aeroflex	Revised
GP-051084	CR 51.010-2-243 rev 2 Annex B new DARP tests TCH/AFS and TCH/AHS	Aeroflex	Approved
GP-050695	CR 51.010-2-244 Annex B 14.4.16 change applicability due to new DARP tests	Aeroflex	Revised
GP-051072	CR 51.010-2-244 rev 1 Annex B 14.4.16 change applicability due to new DARP tests	Aeroflex	Approved
GP-050711	CR 51.010-2-245 Correction in Table A.26.4 Display	Cetecom	Approved

Tdoc	Title	Source	Agenda Item
GP-050712	CR 51.010-2-246 Annex B Applicability of the individual test	Cetecom	Approved
GP-050748	CR 51.010-2-247 Applicability table Annex B changed for 41.5.1.1.2.3.4 and 42.6.1.	Setcom	Revised
GP-051078	CR 51.010-2-247 rev 1 Applicability table Annex B changed for 41.5.1.1.2.3.4 and 42.6.1.	Setcom	Approved
GP-050800	CR 51.010-2-248 Section 41.5.1.1.2.3.4 - Uplink TBF establishment with reallocation of CS resources / Abnormal case / Multislot class violation / Singleslot allocation – Applicability changed	Rohde & Schwarz	Withdrawn
GP-050833	CR 51.010-2-249 Removal of A-GPS NI-LR test cases on SDCCH	Qualcomm	Approved
GP-050835	CR 51.010-2-250 New A-GPS NI-LR emergency call test cases without SIM inserted	Qualcomm	Approved
GP-050910	CR 51.010-2-251 Table B.1: Applicability of tests - The Mnemonic A.25/26 (TSPC_Addinfo_CCprotocol_oneBC) is wrongly named in twelve clauses of Table B.1	Rohde & Schwarz	Agreed
GP-050882	CR 51.010-2-252 Changes in the condition of the test case 47.1.4	SASKEN	Revised
GP-051079	CR 51.010-2-252 rev 1 Changes in the condition of the test case 47.1.4	SASKEN	Approved
GP-051040	CR 51.010-2-253 Table B.1: Correction of applicability for a mobile terminal supporting card application	Nokia	Revised
GP-051096	CR 51.010-2-253 rev 1 Table B.1: Correction of applicability for a mobile terminal supporting card application	Nokia	Approved
GP-051032	CR 51.010-2-254 Annex B 14.11.4 Change to “Applicability of individual test” due to a new DARP test case	Qualcomm	Revised
GP-051074	CR 51.010-2-254 rev 1 Annex B 14.11.4 Change to “Applicability of individual test” due to a new DARP test case	Qualcomm	Approved
GP-051075	CR 51.010-2-255 Annex B Change to “Applicability of individual test” due to new DARP signalling test case	Qualcomm	Approved
GP-050673	CR 51.010-3-048 26.6.5.9 - Cell B commanded power level should be different from Cell A.	Anite	Approved
GP-050758	CR 51.010-5-002 Summary of regression errors for IR_G_wk09.	STF272	Approved

Tdoc	Title	Source	Agenda Item
GP-050759	CR 51.010-5-003 Corrections to approved IR_G test cases 26.6.11.3 and 26.6.11.4.	STF272	Approved
GP-050760	CR 51.010-5-004 Corrections to approved IR_G test case 60.1 to handle the path for Handover To UTRAN for MS supporting GSM HR speech call.	STF272	Approved
GP-050761	CR 51.010-5-005 Inter system handover to UTRAN/From GSM/SDCCH/CC Establishment/Success 60.4	STF272	Approved
GP-050762	CR 51.010-5-006 Inter system handover to UTRAN/From GSM/Integrity Protection Activation 60.10	STF272	Approved
GP-050763	CR 51.010-5-007 Intersystem Cell Reselection/Idle Mode/FDD_Qoffset 20.25.3	STF272	Approved
GP-050764	CR 51.010-5-008 Intersystem Cell Reselection/Idle Mode/Qsearch_I 20.25.4	STF272	Approved
GP-050888	CR 51.010-5-009 Add new verified TTCN test cases CR to 51.010-5 (prose) in Annex A (Rel-6)	STF 272	Approved

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Technical Report

3GPP GERAN TSG#~~23~~ 24 ***GP-0~~505581~~1175***
~~Tampa, Florida 24-28 January~~Dublin, Ireland 4-8 April 2005

Source: Rapporteur (Marc Grant, Cingular Wireless)

3rd Generation Partnership Project;
Technical Specification Group GERAN;
Project scheduling and open issues for GERAN;

GLOBAL SYSTEM FOR
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Keywords
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3GPP

Postal address

3GPP support office address
650 Route des Lucioles - Sophia Antipolis
Valbonne - FRANCE
Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Internet
http://www.3gpp.org

Contents

1 Scope

The purpose of this document is to capture status of all TSG GERAN work items in order for the group to get an overview of current ongoing work. The status and progress on the different work items are partly captured from the GERAN2 work plan, partly from agreements in the plenary sessions.

This TR is used as a mean to provide input to the complete 3GPP work plan that is handled by MCC.

2 Open Work item status and approval time frame

This list reflects the open work items running under the responsibility of TSG GERAN.

	Work items in this colour are closed or building blocks.

Feature	Building block	Work task	Level of completion	Start Date	Date of completion	Status
Enhanced Power Control (EPC) GP-012748	Realization of Enhanced power control and signaling support GP-012749	• Concept • Changes to 43.051 • Changes to 44.004 • Changes to 44.018 • Changes to 48.058 • Changes to 45.001 • Changes to 45.002 • Changes to 45.003 • Changes to 45.008			Nov 2001	Ready for Rel 5. Closed
	GERAN MS Conformance test for Enhanced Power Control GP-012750	• MS test	0%			Open
	GERAN BTS Conformance test for Enhanced Power Control GP-012751	• BTS test	0%			Open
8PSK AMR HR (8PSK-AH) GP-012752	Definition of channel coding, performance requirements and signaling support GP-012753	• Concept • Changes to 44.018 • Changes to 45.001 • Changes to 45.002 • Changes to 45.003 • Changes to 45.005 • Changes to 24.008 • Changes to 48.058		Dec 2001	Jun 2002	Ready for R5. Closed
	GERAN MS Conformance test for 8PSK HR GP-012754	• MS test	0%			
	GERAN BTS Conformance test for 8PSK HR GP-012755	• BTS test	100%		Dec 2002	

Feature	Building block	Work task	Level of completion	Start Date	Date of completion	Status
Wideband telephony services (UMTS)	Support of WB AMR in GERAN (GAMRWB) GP-000453	• GMSK and 8PSK WB FR / HR support • Channel coding in 45.003 • Signalling for A interface • Signalling for Iu • Link adaptation in 45.009 • Receiver performance in 45.005		January 2000	Apr 2002 Nov 2001 Jun 2002	Ready for R5. Closed
	GERAN MS Conformance test for WB AMR GP-000454	• MS test	0%			Open
	GERAN BTS Conformance test for WB AMR GP-000455	• BTS test	100%		Dec 2002	Closed
~~Support of Conversational Services in A/Gb mode via the PS domain (SCSAGB) GP-030443~~ **REPLACED BY GP-051160 and GP-051164**	~~Creation of a Technical Report (SCSAGB-TR) GP-030444~~	• ~~Technical Report~~	~~100%~~	~~Feb 2003~~	~~November 2003~~	~~Completed~~
	~~Stage 2 (SCSAGB-Stage2) GP-030445~~	~~•PS handover~~ ~~•SNDCP/LLC compression~~ ~~•Definition of radio resource management functionality~~ ~~•Modifications to FLO~~ • ~~Radio channel support~~	~~85%~~	~~Nov 2003~~	~~January 2005~~	~~Started~~
	~~Radio Channel Support (SCSAGB-RCS) GP-030446~~	~~•Radio channel support for Conversational QoS~~ • ~~Introduction of continuous measurement reporting~~	~~0%~~	~~Feb 2004~~	~~November 2005~~	~~Not Started~~
	~~Definition of radio resource management functionality (SCSAGB-RRM) GP-030447~~	• ~~Addition/modification of radio resource management protocol layer~~	~~0%~~	~~Feb 2004~~	~~November 2005~~	~~Not Started~~
	~~PS Handover (SCSAGB-PSH) GP-030448~~	~~•BSSGP procedures for change of BSC~~ ~~•Bi-Casting~~ • ~~Context transfer~~	~~25%~~	~~Feb 2004~~	~~January 2005~~	~~Not Started~~
	~~Modifications to FLO (SCSAGB-FLO) GP-030449~~	• ~~FLO specific impacts due to conversational QoS~~	~~0%~~	~~Feb 2004~~	~~November 2005~~	~~Not Started~~
Support of Packet-switched Handover for GERAN A/Gb mode (SPSHAGB) GP-051160	Stage 2 (SPSHAGB – Stage 2)	• PS handover • Definition of radio resource management functionality	90%	April 2005	June 2005	Originally Started Nov 2003 as GP-030443
	Support of Packet-switched Handover for GERAN A/Gb mode – Stage 2 (GP-051161)		90%	April 2005	June 2005	

Feature	Building block	Work task	Level of completion	Start Date	Date of completion	Status
	Support of Packet-switched Handover for GERAN A/Gb mode – PS Handover (GP-051162)		90%	April 2005	June 2005	
	Support of Packet-switched Handover for GERAN A/Gb mode – Definition of radio resource management functionality (GP-051163)		90%	April 2005	June 2005	
Support of Conversational Services in A/Gb mode via the PS domain (SCSAGB) GP-051164	Support of Conversational Service in A/Gb mode via the PS Domain	▪ Definition of radio resource management functionality ▪ Modifications to FLO ▪ Radio channel support				
	Support of Conversational Services in A/Gb mode via the PS domain - Modifications to FLO (GP-051165)	▪	10%	April 2005	April 2006	
	Support of Conversational Services in A/Gb mode via the PS domain - Radio Channel Support (GP-051166)		10%	April 2005	April 2006	
	Support of Conversational Services in A/Gb mode via the PS domain - Definition of radio resource management functionality (GP-051167)		10%	April 2005	April 2006	
Alignment between the test-regimes for GERAN capable MS **GP-032236**		Determine the controversial test cases in the different test regimes and align them with 3GPP GERAN test specifications. Such test cases to be added to TS 51.010.	80%	June 2003	September 2004	Started
Downlink Advanced Receiver Performance (DARP) GP-041966	DARP test scenarios GP-041967	Interference test cases for 45.005	100%	November 2003	September 2004	Started
	DARP for GMSK modulated voice services GP-041968	Performance Requirements in 45.005 Radio subsystem link control in 45.008	100%	February 2004	November 2004	Started
	DARP for GPRS and EGPRS MCS1-MCS4 GP-041969	Performance Requirements in 45.005 Radio subsystem link control in 45.008	100%	February 2004	November 2004	Started
	DARP Capability signalling GP-041970	Modification of 24.008 for signalling of MS ARP capability	100%	November 2003	September 2004	Started

Feature	Building block	Work task	Level of completion	Start Date	Date of completion	Status
	GERAN MS Conformance test for ARP GP-041971	MS Test in 51.010	~~40~~60%	August 2004	~~February 2005~~August 2005	Started
Reduction of PS service interruption in Dual Transfer Mode (PSintDTM) GP-032548	Reduction of PS service interruption in Dual Transfer Mode / Use case and requirement definition (PSintDTM-Req) GP-032549	Study of use cases and requirements. Areas for investigation are: • Cell change scenarios • CS channel establishment during PS session • CS channel release during PS session	100%	November 2003	April 2004	Started
	Reduction of PS service interruption in Dual Transfer Mode / Performance Study of Current Procedures (PSintDTM-Perf) GP-032550	Analyse performance of the common use cases to determine to what extent improvements are needed to the DTM procedures in GPRS.	100%	November 2003	April 2004	Started
	Reduction of PS service interruption in Dual Transfer Mode / Reduction of service interruption times and packet loss during Dual Transfer Mode and mobility procedures (PSintDTM-Reduct) GP-032551	Investigate changes needed to improve DTM procedures identified in this work item.	100%	February 2004	November 2004	Started
	Reduction of PS service interruption in Dual Transfer Mode / MS Conformance testing	MS Conformance testing (51.010)	0%	June 2004		~~Under Evaluation~~ Ongoing
	~~Reduction of PS service interruption in Dual Transfer Mode / BTS Conformance testing~~	~~BTS Conformance testing~~	~~0%~~	~~June 2004~~		~~Under Evaluation~~ Ongoing
FS: Generic Access to A/Gb Interface (GP-041592) (GAAG)	Generic Access to A/Gb Interface	Determine the feasibility of generic IP based access to A/Gb interface.	100%	January 2005	January 2005	~~Not Started~~Completed
Global Navigation Satellite Systems (GNSS) (GP-0422268)	Support for GNSS in GERAN	To include the capability of Assisted GALILEO as an Assisted GNSS into the GERAN.	0%	April 2005	~~April 2005~~August 2005	Not Started
FS of enhanced support of Video Telephony (GP-042221) (VIDGER)	Feasibility study of enhanced support for video telephony service over GERAN via the A interface	To enhance performance of video telephony service over GERAN via the A interface.	~~10~~35%	January 2005	~~April~~ August 2005	~~Not Started~~Started

Feature	Building block	Work task	Level of completion	Start Date	Date of completion	Status
Generic Access to the A/Gb Interface (GP-042247) (GAAI)	Generic IP based Access to A/Gb interface – Stage 2	Stage 2 for Generic Access to the A/Gb Interface	100%	April 2005	April 2005	Complete
	Generic IP based Access to A/Gb interface – Stage 3	Stage 3 for Generic Access to the A/Gb Interface	~~25~~100%	April 2005	April 2005	~~Started~~Completed
	MS Conformance Test for Generic Access to A/Gb Interface	MS Conformance Test for Generic Access to A/Gb Interface	~~0~~20%	~~June~~ April 2005	June 2005	~~Not Started~~Started
Enhancements of VGCS in public networks for communication of public authority officials GP-041837 (EVGCS)	Enhancements of VGCS in public networks for communication of public authority officials	Enhancements of VGCS in public networks for communication of public authority officials	~~0~~5%	~~April~~ January 2005	~~April~~ August 2005	~~Not Started~~Started
MS Antenna Performance Evaluation Method and Requirements	Define MS antenna minimal performance requirements	Define MS antenna minimal performance requirements	0%	~~November~~ January 2005	November 2005	Started
Lower 700 MHz Inclusion in the GERAN Specifications (GSM710)	To include the 698 – 746 MHz band into GERAN	To include the 698 – 746 MHz band into GERAN	~~10~~70%	~~June~~ January 2005	June 2005	Started
Addition of new frequency band to GSM GP-05945 (T-GSM810)		The T-GSM 810 operates in the following frequency band: - 806 MHz to 821 MHz: mobile transmit, base receive; - 851 MHz to 866 MHz: base transmit, mobile receive.		April 2005	June 2005	
	Addition of new frequency band to GSM (T-GSM810) – Changes to core specification (GP-05946)		0%	April 2005	June 2005	
	Addition of new frequency band to GSM (T-GSM810) – Changes to MS testing specification (GP-05947		0%	April 2005	August 2005	
	Addition of new frequency band to GSM (T-GSM810) – Changes to BTS testing specification		0%	April 2005	August 2005	
Handover of dedicated and shared resources while in dual transfer mode GP-050979 (HO-DSRDTM)	Handover of dedicated and shared resources while in dual transfer mode		0%	April 2005	March 2006	Not Started

Feature	Building block	Work task	Level of completion	Start Date	Date of completion	Status
	MS Conformance Testing		0%	April 2005	November 2006	Not Started
	BS Conformance Testing		0%	April 2005	November 2006	Not Started
Future GERAN Evolution GP-051052 (FGE)	Feasibility Study for Future GERAN Evolution		5%	April 2005	November 2005	Started
LCS Enhancements Related to Location-Based Services GP-050265 (LCSLBS)	LCS Enhancements Related to Location-Based Services	▪ Linked to SP-040682 Location Services Enhancements Rel-7 (LCS-R7)	10%	January 2005	November 2005	Started

2 Completed or Terminated Work items

This list reflects work items that have been completed or terminated.

Feature	Building block	Work task	Level of completion	Start Date	Date of completion	Status
GERAN/UTRAN interface evolution 1 GP-000481	Evolution of Iu ps	• Identification of GERAN requirements on Iu ps • Update of specifications			Nov 2001 Mar 2002	Ready for R5. Closed
GERAN/UTRAN interface evolution 2 GP-010417	Evolution of Iu cs GP-000430	• Identification of GERAN requirements on Iu cs • Update of specifications			Apr 2002 Jun 2002	Ready for R5. Closed
Low chip rate TDD option (UTRAN)	Low chiprate TDD interworking with GERAN GP-000432	• Handover and Cell Selection / Reselection to UTRA 1.28Mcps TDD				Ready for R4. Closed
GERAN improvements 1 GP-000433	Gb over IP GP-000434	IP-fication of Gb • Concept • Changes to 08.16, 08.18				Ready for R4. Closed
GERAN improvements 3 GP-010909	Evolution of the transport for A GP-010910	• Definition of a new A/Ater Interface Transport Layer option based on the Iu Interface Transport Layer • Adaptation of the Layer 3 BSSMAP procedures as required.	0%		Dec 2002	Terminated. Not standardised
GERAN Improvements 4 GP-010363	Gb enhancements 2 GP-010363	Stage 2 Stage 3 (changes in 44.060) • Definition of enhanced countdown procedure • Definition of enhanced TBF release procedure				Ready for R4. Closed

GERAN Inter BSC NACC improvements over the Gb Interface GP-012313	Modification of Gb protocols for GERAN Inter BSC NACC over the Gb interface GP-012314	Stage 3 (changes to) 48.018			Apr 2002	Ready for R5. Closed
	Modification of core network protocols for GERAN Inter BSC NACC for Gb interface GP-011877	Stage 2 • Concept • 23.060 change – Definition of Inter BSC NACC Stage 3 (changes to) • 29.060			Nov 2001 Apr 2002	
GERAN support for IP multimedia GP-010420	GERAN Header adaptation GP-010421	Header adaptation: • Definition of compression for PDCP protocol • Conceptual description in stage 2 • Necessary changes on stage 3	100%		Sept 2000 Oct 2001 Dec 2002	Ready for Rel-5. Closed
	GERAN Radio access bearer design for IP multimedia GP-010422	MuM control signalling for conversational multimedia services. • Identification of requirements • Necessary modifications due to SIP	?%		Feb 2002 Dec 2002	Terminated. Not standardised
	GERAN MS Conformance test for support of IP multimedia GP-010424	• MS test	0%		Dec 2002	Terminated. Not standardised
	GERAN BTS Conformance test for support of IP multimedia GP-010425	• BTS test	0%		Dec 2002	Terminated. Not standardised
Flow control supporting an MS with multiple data flows with different QoS over the Gb interface GP-021767	Update of stage 2 specifications	• Concept document 23.060 (changes to) – Flow Control			June 2002 June 2002	Closed
	Modification of BSSGP protocol GP-021508	Stage 3 (changes to) • 48.018			June 2002	Ready for release 5. Closed
GERAN enhancements for streaming services 1 GP-010429	GERAN enhancements for streaming services 1 GP-010429	• Concept • RLC protocol enhancement (SDU Discard)			Oct 2001 Nov 2001????	Ready for R5. Closed
GERAN enhancements for streaming services 2 GP-010430	GERAN enhancements for streaming services 2 GP-010430	Usage of ECSD Stage 2 Stage 3 • RLC PDU formats • MAC header			Jun 2001 Jun 2002	Ready for R5. Closed

Intra Domain Connection of RAN Nodes to Multiple CN Nodes: Overall System Architecture SA2 Feature	GERAN work for Intra Domain Connection of RAN Nodes to Multiple CN Nodes GP-020492	Stage 2 (changes to) • 43.051 Introduction of support for IDNNS in GERAN Iu mode Stage 3 (changes to) • 48.016 Use of Gb interface concepts when a network applies IDNNS • 48.018 Include MSC/VLR identity in CS IMSI paging			Jun 2002	Ready for R5. Closed, accept changes for Gb over IP
Real Time QoS for packet services including VoIP (UTRAN)	HOs: maintenance of real-time QoS while moving between cells in the PLMN including inter-SGSN change and SRNS relocation or possibly other mechanisms (UTRAN) GP-010431	Handover for the packet switched domain • Stabile RT handover report 25.936 including header removal • Update of stage 2 • Update of relevant stage 3 specs			Nov 2001	Closed
Uplink TDOA feasibility study GP-012794	Uplink TDOA feasibility study GP-012794	• Performing of a feasibility study			Jun 2002	Closed for R6.
700 MHz spectrum support GP-000449	GERAN support for the 700 MHz band	• Signaling support • Physical layer definitions • Receiver performance and RF budget				Ready for R4. Closed
	GERAN MS Conformance test for 700 MHz band GP-000451	• MS test			Jun 2001	Closed
	GERAN BTS Conformance test for GERAN interface evolution GP-000452	• BTS test	100%		Dec 2002	Closed
Enhanced A/Gb feasibility study **GP-022565**	Enhanced A/Gb feasibility study GP-022565	• Requirements for the support of conversational services • Identification of the different building blocks for the provision of conversational services on the existing A/Gb protocol stack • Outline of impact and feasibility of these building blocks and their different solutions • Impact on 3GPP architecture and requirement to co-ordinate with other TSGs (CN, SA) • Standardisation effort • Dependency to other features	100%		Nov 2002	Closed at GERAN #13

MS Conformance Testing of Dual Transfer Mode **GP-023236**	MS Conformance Testing of Dual Transfer Mode	• MS Conformance Testing of Dual Transfer Mode	100%		Feb 2003	Closed at GERAN #14
Location service (UMTS)	LCS interoperability aspects to GERAN GP-000456	• Co-ordinated development of GSM LCS Phase 2 and UMTS LCS, S2 and GERAN				Ready for R5. Closed
	Location service for GERAN R4 GP-010932	• Work for aligning LCS R4 CN and GERAN				Ready for R4. Closed
	Location Services (LCS) for GERAN in A/Gb Mode GP-011925	• GERAN LCS Stage Two • Gb interface support for LCS • L3 protocol support for LCS • Stage 3 specifications			Feb. 2002	Ready for Rel-5. Closed
	Location Services (LCS) for GERAN in Iu Mode GP-011926	• GERAN LCS stage 2 • Iu interface support for LCS • Iur-g interface support for LCS • RRC protocol support for LCS • Additional impacts on Broadcast of LCS data on packet channels • Stage 3 specifications			Stage 2- GERAN #8 Feb. 2002 Stage 3 – GERAN #9 Jun 2002	Ready for R5. Closed
	GERAN MS Conformance test for LCS (LCS-GERAN-Msconf) GP-000458	• Develop LCS MS test case work plan (Release 98/99/4) • Develop LCS MS test cases	100%		June 2003	Completed
	GERAN BTS Conformance test for LCS (LCS-GERAN-BTSconf) GP-000459	• Develop LCS BTS test case work plan (Release 98/99/4) • Develop LCS BTS test cases	0%		June 2004	Closed without progress at GERAN #19
Seamless support of streaming services in A/Gb mode (SSStrea) **GP-022561**	Identification of requirements for streaming GP-022564	• Requirements	100%	August 2002	August 2003	Completed at GERAN #16
	Performance study of cell change mechanisms GP-022562	• Performance of NACC • Performance of cell change in DTM for the PS domain • Handover	100%	August 2002	August 2003	Completed at GERAN #16
	Reduction of service interruption times and packet loss during mobility procedures GP-022563	• Optimisations of existing mechanisms/procedures • Inter-system NACC • PS Handover (within GERAN and between GERAN and UTRAN) • Dependency to other features	100%	January 2003	November 2003	Completed at GERAN #17
	MS conformance testing GP-023424	• MS conformance tests	0%	September 2003	January 2004	Closed, no work needed.

GERAN improvements 2 (GEIMP2) GP-012812	Gb enhancements GP-000436	Intra BSC NACC • Concept • Changes in 03.64 • Changes in 04.60 • Changes in 44.008		Nov 2000	June 2001	Ready for R4. Closed
	MS conformance test for Intra BSC NACC GP-012811	Changes in 51.010	100%	Nov 2001	November 2003	Completed at GERAN #17
Alignment of 3G functional split and Iu (GER3GAL) GP-021256	GERAN user / control plane (GER3GAL-GUCOPL) GP-021255	• Alignment with UMTS bearer concept • Stage 2		Aug 2000	Jun 2001	Ready for R5.
		• Adoption of the UTRAN PDCP			Dec 2001	
		• Development of RLC / MAC			Aug 2002	
		• Development of GERAN RRC			Jun 2002	
		• Ciphering and integrity protection concept paper			Apr 2002	
		• Multiple TBF or equivalent Concept paper			Feb 2002	
		• Paging concept			Apr 2002	
		• Dedicated physical subchannels. Includes traffic and control channels			Nov 2001	
		• Iu support and broadcast concept ▪			Apr 2002	
		• Impact of using RLC instead of LAPDm concept			Feb 2002	
		• Contention resolution, mobile-station identity, and access concept			Nov 2001	
		• PDCP concept			Apr 2002	

		• Downlink delayed TBF release			Aug 2002	
		• Add transparent RLC Concept			Feb 2002	
		• Handover concept			Feb 2002	
		• Physical layer alignment with UMTS bearer concept • Control channels in 45.003 • Receiver performance in 45.005 for PDTCH/TCH and control channels			Jun 2001	
	Iu rg interface (GER3GAL-Iurg) GP-010428	• Inter BSS interface • Identification of requirements • Stage 2 • Adoption of relevant parts from Iu r • Complementation with GERAN specifics • New stage 3		Nov 2000	Jun 2002	Ready for R5. Closed
		• Inter BSS-RNS interface • Identification of requirements • Stage 2 • Adoption of relevant parts from Iu r • Complementation with GERAN specifics • New stage 3 ▪			Jun 2002	Ready for R5. Closed
	Voice over GERAN PS and CS concept GP-021252	• Voice over GERAN PS and CS concept • Architecture for A, Iu cs and Iu ps • Handover • RTP payload		Nov 2000	Nov 2001	Ready for R5. Closed
Alignment of 3G functional split and Iu (GER3GAL) GP-021256	GERAN user / control plane (GER3GAL-GUCOPL) GP-021255	• Alignment with UMTS bearer concept • Stage 2		Aug 2000	Jun 2001	Ready for R5.
		• Adoption of the UTRAN PDCP			Dec 2001	
		• Development of RLC / MAC			Aug 2002	
		• Development of GERAN RRC			Jun 2002	
		• Ciphering and integrity protection concept paper			Apr 2002	
		• Multiple TBF or equivalent Concept paper			Feb 2002	
		• Paging concept			Apr 2002	
		• Dedicated physical subchannels. Includes traffic and control channels			Nov 2001	
		• Iu support and broadcast concept			Apr 2002	
		• Impact of using RLC instead of LAPDm concept			Feb 2002	
		• Contention resolution, mobile-station identity, and access concept			Nov 2001	

		• PDCP concept			Apr 2002	
		• Downlink delayed TBF release			Aug 2002	
		• Add transparent RLC Concept			Feb 2002	
		• Handover concept			Feb 2002	
		• Physical layer alignment with UMTS bearer concept • Control channels in 45.003 • Receiver performance in 45.005 for PDTCH/TCH and control channels			Jun 2001	
	Iu rg interface (GER3GAL-Iurg) GP-010428	• Inter BSS interface • Identification of requirements • Stage 2 • Adoption of relevant parts from Iu r • Complementation with GERAN specifics • New stage 3		Nov 2000	Jun 2002	Ready for R5. Closed
		• Inter BSS-RNS interface • Identification of requirements • Stage 2 • Adoption of relevant parts from Iu r • Complementation with GERAN specifics • New stage 3			Jun 2002	Ready for R5. Closed
	Voice over GERAN PS and CS concept GP-021252	• Voice over GERAN PS and CS concept • Architecture for A, Iu cs and Iu ps • Handover • RTP payload		Nov 2000	Nov 2001	Ready for R5. Closed
Multiple TBF in A/Gb mode (MULTBF) **GP-021263**	Multiple TBF in A/Gb mode (MULTBF-Agbmode) GP-021263	• Multiple TBF Concept paper • Multiple TBF Stage 2 (43.064) CRs • Multiple TBF Stage 3 (44.060) CRs	100%	April 2002	August 2003	Completed
Flexible Layer One for GERAN (FLOGER) GP-021018	Realisation of a Flexible Layer One (FLOGER-Real) GP-021019	• Technical Report • Architecture in 45.001 and 43.051 • Multiplexing in 45.002 • Channel Coding in 45.003 • Performance Requirements in 45.005 • Radio subsystem link control in 45.008 • Requirements in 44.004	100%	April 2002	April 2004	Completed
	Signalling and protocol support for a Flexible Layer One (FLOGER-SigPro) GP-021020	• Modifications to RLC/MAC in 44.060 and 44.160 • Modifications to RRC in 44.118 and 44.018	100%	October 2002	June 2004	Completed
	Security for a Flexible Layer One (FLOGER-SecFLO) GP-021021	• Ciphering in 44.160,44.118, 44.060 and 44.018	100%	February 2003	August 2003	Completed

Addition of frequency bands to GSM (TAPS) GP-022072	Addition of frequency bands to GSM – Changes to core specs (TAPS-Specs) GP-022073	• New frequency ranges • Scenarios for new frequencies • Classmark information elements • Add frequency ranges • Add frequency and channels • Add frequency ranges • 43.022Add channels to be searched	100%	June 2002	Dec 2002	Ready for Rel-6
Uplink TDOA location determination for GPRS, PS domain GP-032774	Uplink TDOA location determination for GPRS, PS domain	Addition of U-TDOA in the PS domain	100	June 2003	November 2004	Started
Uplink TDOA location determination for GSM, CS domain GP-032773	Uplink TDOA location determination for GSM, CS domain	Addition of U-TDOA in the CS domain	100%	November 2002	April 2004	Completed
Uplink TDOA location determination for GSM, CS domain GP-032773	Uplink TDOA location determination for GSM, CS domain	Addition of U-TDOA in the CS domain	100%	November 2002	April 2004	Completed

Annex A : Change history

Change history				
Date	**TSG #**	**TSG Doc.**	**Subject/Comment**	**Version**
23th February 2000			First draft (V0.0.1)	
2nd April 2000			Updated after GERAN #1 and EDGE WS #13 (V0.0.2)	
8th May 2000			Updated after SMG2 #35 (V0.0.3)	
22nd May 2000			Updated after SMG2 GERAN WS #2 (V0.0.4)	
24th May 2000			Updated during SMG2 #36 (V0.0.5)	
2nd August 2000			Updated for 3GPP S3 meeting (V0.0.6)	
28th August 2000			Updated after SMG2 GERAN release 2000 and beyond Adhoc #1	
9th October 2000			Updated after TSG GERAN #1 as 50.099 (V0.0.1)	
6th November 2000			Updated after TSG GERAN Adhoc on release 2000 and beyond #2 as 50.099 (V0.0.2)	
12th February 2001			Updated after TSG GERAN #3 (V0.0.5)	
April 2001			Updated for TSG GERAN #4 (V0.06)	
7th May 2001			Updated for TSG GERAN Adhoc on released 2000 and beyond #5 (V0.07)	
11th May 2001			Updated during TSG GERAN Adhoc on release 2000 and beyond #5 (V0.08)	
28th May 2001			Updated for TSG GERAN #5 (V0.09)	
27th August 2001			Updated for TSG GERAN #6 (V0.10)	
26th Nov 2001			Updated for TSG GERAN #7 (V0.11)	
30th Nov 2001			Updated for TSG GERAN #7 (V0.12)	
30th Nov 2001			Updated for TSG GERAN #7 (V0.13)	
15th April, 2002			Updated for TSG-GERAN #9 (v0.15)	
19th April, 2002			Updated for TSG-GERAN #9 (v0.16)	
24th June 2002			Updated for TSG-GERAN #10 (V0.17)	
28th June 2002			Updated during TSG GERAN #10 (V0.18)	
25th August 2002			Updated for TSG GERAN #11 (V0.19)	
30th August 2002			Updated during TSG GERAN #11 (V0.20)	
20th November 2002			Updated during TSG GERAN #12 (V0.21)	
30th January 2003			Updated for TSG GERAN #13 (v0.24)	
07th February 2003			Updated during TSG GERAN #13 (v0.25)	
03th April 2003			Updated for TSG GERAN #14 (v0.27). Aligned with WG2bis #13 work plan	
11th April 2003			Updated during TSG GERAN #14 (v0.28).	
11th April 2003			Updated during TSG GERAN #14 (v0.29).	
12th June 2003			Updated for TSG GERAN #15 (v0.30). Aligned with WG2bis #14 work plan (v7.0).	
25th June 2003			Updated during GERAN #15 (v0.31). Tdoc GP-0311727	
27th June 2003			Updated during end of GERAN #15 (v0.32). Tdoc GP-031731	

28th August 2003			Updated during GERAN #16 (v0.33). Tdoc GP-032286.	
5th November 2003			Updated for GERAN #17 (v0.34). Aligned with WG2bis #16 work plan (v10.0)	
21st November 2003			Updated during GERAN #17 (v0.35). Tdoc GP-032826	
28th January 2004			lated for GERAN #18 (v0.36). Aligned with WG2bis #17 work plan (v12.1)	
6th February 2004			lated during GERAN #18 (v0.37). Aligned with WG2 #18 work plan (v13)	
16th April 2004	G19	GP-041052	Updated for GERAN #19 (v0.38). Aligned with WG2bis #18 work plan (v14.0)	V0.38
23rd April 2004	G19	GP-041221	Updated during GERAN #19 (v0.39).	V0.39
25 June 2004	G20	GP-01740	Updated during GERAN #20 (V0.40)	V0.40
27 June 2004	G21	GP-0XXXX	Updated during GERAN #21 (V0.41)	