TSG GERAN
TSG SA#18

TSG GERAN Report to TSG-SA#18

TSG-GERAN Chairman
Niels Peter Skov Andersen
Motorola

Tdoc SP-02798

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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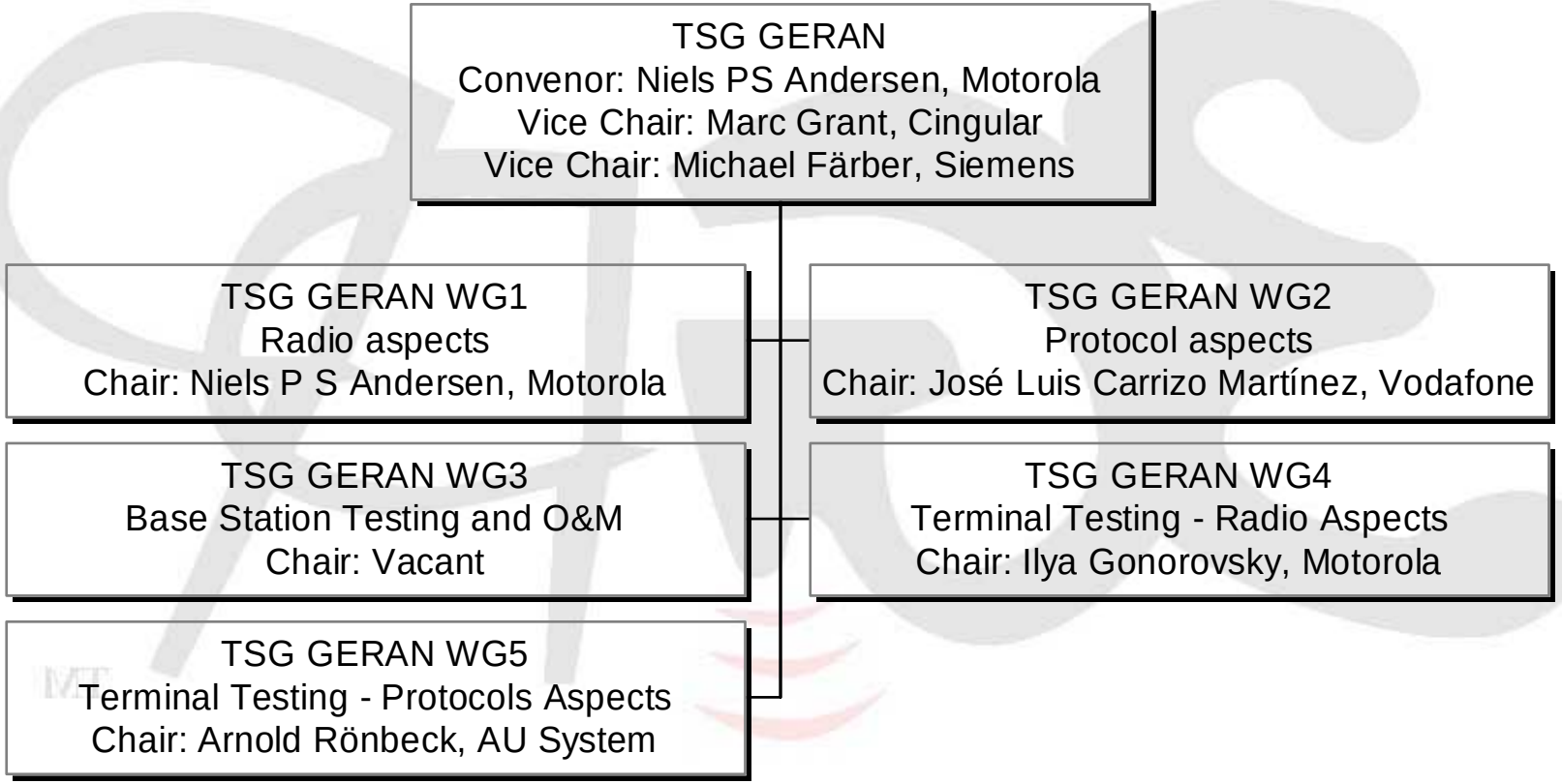

Organisation of TSG GERAN (2/4)

TSG GERAN WG1 – Radio Aspects

- **Chairman: Niels Peter Skov Andersen, Motorola**
- **RF aspects of GERAN**
- **GERAN radio performance and RF system aspects**
- **Ater (CCU-TRAU)**

TSG GERAN WG2 – Protocol Aspects

- **Chairman: José Luis Carrizo Martínez, Vodafone**
- **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 (3/4)

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TSG GERAN WG3 – Base Station Testing and O&M

Chairman: Vacant

- **Conformance test specifications for testing of all aspects of GERAN base stations**
- **GERAN specific O&M specifications for the nodes in the GERAN**

Organisation of TSG GERAN (4/4)

TSG GERAN WG4 – Terminal Testing – Radio Aspects

Chairman: Ilya Gonorovsky

- **Conformance test specifications for testing of Lower layers including RLC/MAC**

TSG GERAN WG5 – Terminal Testing – Protocol Aspects

Chairman: Arnold Rönbeck, AU System

- **Conformance test specifications for testing Protocol aspects above the RLC/MAC**

GPRS/EDGE

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- **Specifications stable no major issues detected for frozen Releases (R97, R98, R99, Release 4, Release 5)**
- **09.95 (R97)**
  - **Use of Cause #14 in networks using NMO I**
  - **Two-message packet downlink assignment on CCCH**
- **Two-message packet downlink assignment on CCCH**
  - **09.95 – R97**
  - **Corrected in R99**
  - **Test case may be needed in 51.010 (WG5)**

GPRS/EDGE

- **Liaison Statement received from GCF indicating the testing plans for GPRS – GERAN replied that if some functions has been decided not to be tested because thay are not being planned to use – then the correct approach would be to consider deletion of the functions in the standard**

Multimode GSM – 3G

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- **No major changes**

LCS

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- No changes/corrections for LCS R98→
- LCS support for GPRS completed and stable
- New work item on U-TDOA
- Discussions ongoing regarding the potential for improvement of the LCS performance

Support for Codecs

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- **TSG GERAN has completed work on 8-PSK channels for AMR and WB-AMR**
- **The final radio performance requirements for 8-PSK channels have now been agreed**

GERAN Iu-mode

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- **RRC**
  - **Clean-up CRs to 44.118**
  - **Correction of Multislot Capability**
    - **Single class for Iu mode (perhaps different for GMSK and 8PSK)**
- **RLC/MAC for Iu mode**
  - **DBPSCH Messages classification**
  - **DBPSCH/S defined**
  - **Multiple TBFs for Iu mode completed**
    - **RLC buffer: size fixed in the specs dependent on TSs supported**
    - **Some corrections expected**

GERAN A/Gb enhancements

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- **Feasibility study reduced to cover conversational class QoS and its consequences**
- **No agreement yet on whether to create work item for conversational class QoS – Decision will be made at TSG GERAN #13**
- **Work started (Work items agreed) on**
  - **Multiple TBF**
  - **Streaming**

Release 6 *(1/4)*

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Multiple TBFs for A/Gb mode

- Number of RLC entities TBD
- Single indication per direction
- Multiple and partial UL TBF allocation: open
  - Studies will be performed on establishment time
  - Generally, complexity is higher
  - PFC, SAPI, TBF sharing
    - LLC SAPI sharing not allowed
    - TBF sharing for non-RT traffic classes

Release 6 *(2/4)*

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Streaming

- TR proposed
- No agreement on draft CR to 23.107
- SDU/bit error ratio and transfer delay
  - Requirements too tight, at least simultaneously.
- Simulations on ACK/UNACK LLC
  - Compromise between error ratios and delay
  - Improvements to UNACK suggested as priority
- EGPRS simulations is be made

Release 6 *(3/4)*

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Flexible Layer 1

- Performance simulations being evaluated
- Naming agreed
- No agreement to differentiate between ADCH and CDCH
- Legacy TRXs
  - Not sure guideline in the TR can be met
  - Minimum: able to mux FLO and non-FLO in the same TRX
- RLC/MAC Header fields revised: broad agreement
- Window size higher than 64 to be investigated
- Complexity of MAC due to QoS intelligence

Release 6 *(4/4)*

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- **New work item on Single Antenna Interference Cancellation (SAIC) feasibility study**
  - **Already significant amount of contribution**
  - **Workshop to be held early January 2003**
- **MBMS**
  - **Requirements in RAN2's TR reviewed**
  - **LS to RAN2, SA2, SA1**
- **GSM T frequency bands definition completed**

Testing *(1/2)*

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- **Main focus has been on testing of:**
  - **Radio & Layer 1**
  - **GPRS**
  - **EDGE**
  - **Selection/Reselection & Handover (2.5G, 3G)**
  - **LCS**
  - **Tracking of core specification changes**
  - **AMR (Narrow band)**
  - **DTM**

Testing *(2/2)*

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- **The members have been requested to provide input for the development of Test Cases for:**
  - **Wideband AMR**
  - **RLC/MAC (Iu interface CS and PS domain)**
  - **Enhanced power control**
  - **AMR 8 PSK HR**
  - **Selection/Reselections (GERAN I_u-mode >UTRAN)**
  - **Handover (GERAN I_u-mode >UTRAN PS).**

Specification and version numbering

A GLOBAL INITIATIVE
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- **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

Future TSG GERAN Plenary meetings

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TSG GERAN #13	**3 - 7 February 2003**
TSG GERAN #14	**7-11 April 2003**
TSG GERAN #15	**24 – 26 June 2003**
TSG GERAN #16	**25-29 August 2003**
TSG GERAN #17	**17-21 November 2003**

Extract of GERAN work programme and list of CR handled at TSG GERAN #10 & #11 is attached to this report

Work item status and approval time frame

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

Feature	Building block	Work task	Level of completion	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 2 GP-012812	Gb enhancements GP-000436	Intra BSC NACC • Concept • Changes in 03.64 • Changes in 04.60 • Changes in 44.008			Ready for R4. Closed
	MS conformance test for Intra BSC NACC GP-012811	• Changes in 51.010	50%	Dec 2002	Started
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	Termimated. 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	Termimated. Not standardised
	GERAN MS Conformance test for support of IP multimedia GP-010424	• MS test	0%	Dec 2002	Termimated. Not standardised
	GERAN BTS Conformance test for support of IP multimedia GP-010425	• BTS test	0%	Dec 2002	Termimated. Not standardised
Alignment of 3G functional split and Iu GP-021256	GERAN user / control plane GP-021255	Alignment with UMTS bearer concept • Stage 2		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 GP-010428	Inter BSS 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
		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 2001	Ready for R5. Closed
	GERAN MS Conformance test for GERAN interface evolution GP-021253	• MS test	0%	Dec 2002	Not started
	GERAN BTS Conformance test for GERAN interface evolution GP-021254	• BTS test	0%	Dec 2002	Not started
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	75%	Nov 2002	Started

Enhancement of Broadcast and Introduction of Multicast (in responsibility of TSG SA1)	Support of the Multimedia Broadcast Multicast Service (MBMS) in GERAN GP-022566	• Impact on the logical and physical channels • Simultaneous support of MBMS services • Simultaneous support of MBMS and non-MBMS services • Resynchronisation at cell change • Decision making process between point-to-point or point-to-multipoint configurations • MBMS channel allocation procedures to multiple MSs • Changes to the Gb interface • GERAN-specific changes to the Iu-ps interface • Interaction between MBMS and Iu-flex • Security aspects • MS conformance tests	10%	June 2003	Started
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 releas Closed
Multiple TBF in A/Gb mode GP-021263	Multiple TBF in A/Gb mode GP-021263	• Multiple TBF Concept paper • Multiple TBF Stage 2 (43.064) CRs • Multiple TBF Stage 3 (44.060) CRs	50%	Nov 2002	Started
	Multiple TBF in A/Gb mode – MS testing GP-022098	• MS conformance tests	0%	Jun 2003	Started
Seamless support of streaming services in A/Gb mode GP-022561	Identification of requirements for streaming GP-022564	• Requirements	20%	Feb 2003	Started
	Performance study of cell change mechanisms GP-022562	• Performance of NACC • Performance of cell change in DTM for the PS domain • Handover	10%	Feb 2003	Started
	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	0%	June 2003	Started

	MS conformance testing GP-023424	• MS conformance tests	0%	December 2003	Not Started
Flexible Layer One for GERAN GP-021018	Realisation of a Flexible Layer One 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	30%	Jan 2003	Started
	Signalling and protocol support for a Flexible Layer One GP-021020	Modifications to RLC/MAC in 44.060 and 44.160 Modifications to RRC in 44.118 and 44.018	10%	Jan 2003	Started
	Security for a Flexible Layer One GP-021021	Ciphering in 44.160,44.118, 44.060 and 44.018	0%	Jan 2003	Started
	GERAN MS Conformance test for the Flexible Layer One GP-021022	MS Test in 51.010	0%	Jun 2003	Started
	GERAN BTS Conformance test for the Flexible Layer One GP-021023	BTS Test in 51.021	0%	Jun 2003	Started
Addition of frequency bands to GSM GP-022072	Addition of frequency bands to GSM – Changes to core specs GP-022073	45.005 New frequency ranges 45.050 Scenarios for new frequencies 24.008 Classmark information elements 45.008 Add frequency ranges 45.001 Add frequency and channels 43.030 Add frequency ranges 43.022 Add channels to be searched	80%	Dec 2002	Ongoing
	Addition of frequency bands to GSM – Changes for conformance tests GP-022074	51.010-1 Add testing	0%	Dec 2002	Started
Enhanced Power Control 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%	Dec 2002	Not started

	GERAN BTS Conformance test for Enhanced Power Control GP-012751	• BTS test	0%	Dec 2002	Not started
8PSK AMR HR 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		Jun 2002	Ready for R5. Closed
	GERAN MS Conformance test for 8PSK HR GP-012754	• MS test	0%	Dec 2002	
	GERAN BTS Conformance test for 8PSK HR GP-012755	• BTS test	100%	Dec 2002	
GERAN enhancements for streaming services 1 GP-010430	GERAN enhancements for streaming services 1 GP-010430	• Concept • RLC protocol enhancement (SDU Discard)		Oct 2001 Nov 2001????	Ready for R5. Closed
GERAN enhancements for streaming services 2 GP-010429	GERAN enhancements for streaming services 2 GP-010429	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 o IP
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	Ongoing

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
Wideband telephony services (UMTS)	Support of WB AMR in GERAN 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		Apr 2002 Nov 2001 Jun 2002	Ready for R5. Closed
	GERAN MS Conformance test for WB AMR GP-000454	• MS test	0%	Dec 2002	Not started
	GERAN BTS Conformance test for WB AMR GP-000455	• BTS test	100%	Dec 2002	Ongoing
Location service (UMTS)	LCS interoprability 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 R 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 GP-000458	• Develop LCS MS test case work plan (Release 98/99/4) • Develop LCS MS test cases	?%	Dec 2002 (#11)	Ongoing
	GERAN BTS Conformance test for LCS GP-000459	• Develop LCS BTS test case work plan (Release 99/99/4) • Develop LCS BTS test cases	?%	Dec 2002	Work has not started
Uplink TDOA feasibility study GP-012794	Uplink TDOA feasibility study GP-012794	• Performing of a feasitibility study		Jun 2002	Closed.
MS Conformance Testing of Dual Transfer Mode GP-023226	MS Conformance Testing of Dual Transfer Mode	• MS Conformance Testing of Dual Transfer Mode	100%	Feb 2003	Ongoing

Single Antenna Receiver Interference Cancellation (SAIC) GP-023316	Single Antenna Receiver Interference Cancellation (SAIC)	• Determine feasibility of SAIC for GMSK and 8PSK scenarios under realistic synchronized and non-synchronized network conditions. Using a single Feasibility Study, both GMSK and 8PSK scenarios will be evaluated individually. • Realistic DIR (Dominant-to-rest of Interference Ratio) levels and distributions based on network simulations and measurements. • Robustness against different training sequences. • Determine method to detect/indicate SAIC capability.	10%	April 2003	Ongoing
Uplink TDOA location determination for GSM/GPRS GP-023316	Uplink TDOA location determination for GSM/GPRS	• Addition of U-TDOA in the CS domain • Addition of U-TDOA in the PS domain		April 2003 Nov 2003	Ongoing

3GPP TSG GERAN
Meeting no 12
Sophia Antipolis, France
18 – 22 November 2002

List of Change Requests presented to TSG GERAN #12 – Status before Friday Plenay

Tdoc	Title	Source	Status
GP-022965	CR 04.18-A271 Two-message packet downlink assignment on CCCH (R99)	Ericsson	Approved
GP-022909	CR 04.60-B115 rev 2 Segmented retransmission of the final RLC data block (R99)	Nortel Networks, Ericsson, Mitsubishi	Approved
GP-023198	CR 04.60-B117 Wrong references to MS Radio Access Capability (R99).	Nortel Networks	Rejected
GP-023097	CR 05.08-A365 Clarifications to inter-RAT cell reselection algorithm and procedure (R99)	Motorola	Rejected
GP-022886	CR 09.95-A007 rev 2 Use of Cause #14 in networks using NMO I (Rel 97)	Motorola	Revised
GP-023240	CR 09.95-A007 rev 3 Use of Cause #14 in networks using NMO I (R97)	Motorola	Approved
GP-022887	CR 09.95-A008 Use of Cause #14 in networks using NMO I (Rel 98)	Motorola	Revised
GP-023241	CR 09.95-A008 rev 1 Use of Cause #14 in networks using NMO I (R98)	Motorola	Approved
GP-022963	CR 09.95-A009 Two-message packet downlink assignment on CCCH (R97)	Ericsson	Revised
GP-023242	CR 09.95-A009 rev 1 Two-message packet downlink assignment on CCCH (R97)	Ericsson	Approved
GP-022964	CR 09.95-A010 Two-message packet downlink assignment on CCCH (R98)	Ericsson	Revised
GP-023243	CR 09.95-A010 rev 1 Two-message packet downlink assignment on CCCH (R98)	Ericsson	Approved
GP-023024	CR 11.10-4-A008 To upgrade the Mobile Station SIM Application Toolkit Test Specification to Release 99 (T3-020913)	TSG T WG3	Revised
GP-023293	CR 11.10-4-A008 rev 1 to upgrade the Mobile Station SIM Application Toolkit Test Specification to Release 99 (T3-020913)	TSG T WG3	Approved
GP-023210	CR 11.21-A153 Removal of clause 9.4.4 (R99)	Ericsson, Nokia	Approved
GP-023413	CR 11.21-A154 Correction of requirements for PDTCH/CS-4 C/Ic (R97)	Ericsson	Approved
GP-023414	CR 11.21-A155 Correction of requirements for PDTCH/CS-4 C/Ic (R98)	Ericsson	Approved
GP-023415	CR 11.21-A156 Correction of requirements for PDTCH/CS-4 C/Ic (R99)	Ericsson	Approved
GP-023214	CR 24.008-xxx High multislot classes for type 1 mobiles (Rel5)	Nokia	NA
GP-023425	CR 24.008-xxx High multislot classes for type 1 mobiles (Rel5)	Nokia	NA
GP-023061	CR 24.008-xxx rev 1 Implementation of new frequency ranges with associated Classmarks into 24.008 (Rel 6)	ETSI Project TETRA	NA
GP-023087	CR 29.010-078 Interworking between security mode procedure and relocation (Rel-5)	Siemens AG	NA
GP-023062	CR 43.022-009 rev 1 Implementation of new frequency ranges into 43.022 (Rel 6)	ETSI Project TETRA	Revised
GP-023318	CR 43.022-009 rev 2 Implementation of new frequency ranges into 43.022 (Rel 6)	ETSI Project TETRA	Approved
GP-023159	CR 43.051-050 rev 1 Principles of Iu mode establishment causes (Rel 5)	Siemens	Revised
GP-023356	CR 43.051-050 rev 2 Principles of Iu mode establishment causes (Rel 5)	Siemens	Approved

Tdoc	Title	Source	Status
GP-023060	CR 43.059-036 Inclusion of uplink TDOA location method	TruePosition	Postponed
GP-022848	CR 44.014-002 rev 1 New test loops for AMR-NB (Rel 4)	Motorola	Revised
GP-023244	CR 44.014-002 rev 2 New test loops for AMR-NB (Rel-4)	Motorola	Revised
GP-023322	CR 44.014-002 rev 3 New test loops for AMR-NB (Rel 5)	Motorola	Postponed
GP-022932	CR 44.018-225 rev 3 Addition of GERAN Iu Mode Support Indication in SI4, SI7 and SI8 (Rel-5)	Nokia	Approved
GP-022927	CR 44.018-228 rev 2 Correction of MS behaviour upon receiving DTM messages while in DTM (Rel-5)	Vodafone	Approved
GP-022966	CR 44.018-229 Two-message packet downlink assignment on CCCH (Rel-4)	Ericsson	Revised
GP-023364	CR 44.018-229 rev 1 Two-message packet downlink assignment on CCCH (Rel-4)	Ericsson	Approved
GP-022967	CR 44.018-230 Two-message packet downlink assignment on CCCH (Rel-5)	Ericsson	Approved
GP-023093	CR 44.018-231 Release allignement R99 to Rel-4 and Rel-5: SI16 Rest octets (Rel 4)	Nokia	Approved
GP-023094	CR 44.018-232 Release allignement R99 to Rel-4 and Rel-5: SI16 Rest octets (Rel 5)	Nokia	Approved
GP-023254	CR 44.018-233 Implementation of new frequency ranges	EP TETRA	Approved
GP-022919	CR 44.060-242 rev 3 Utilization of Packet Uplink Dummy control block (Rel-6)	Ericsson, Philips semiconductors	Approved
GP-022910	CR 44.060-254 rev 2 Segmented retransmission of the final RLC data block (Rel-4)	Nortel Networks,Ericsson, Mitsubishi	Approved
GP-022911	CR 44.060-255 rev 2 Segmented retransmission of the final RLC data block (Rel-5)	Nortel Networks,Ericsson, Mitsubishi	Approved
GP-022908	CR 44.060-256 Clarification of (GMSK)/EDGE multislot class applicability (Rel-5)	Alcatel	Approved
GP-022925	CR 44.060-259 rev 2 Timers for Multiple TBFs (Rel-5)	Siemens	Approved
GP-023162	CR 44.060-261 rev 3 Multiple TBF and Iu support in section 9.	Siemens	Revised
GP-023251	CR 44.060-261 rev 4 Multiple TBF and Iu support in section 9. (Rel-5)	Siemens	Revised
GP-023365	CR 44.060-261 rev 5 Multiple TBF and Iu support in section 9. (Rel-5)	Siemens	Approved
GP-022924	CR 44.060-263 rev 2 Addition of Uplink Control Timeslot to Packet Uplink Assignment and Timeslot Reconfigure messages (Rel-5)	Siemens	Approved
GP-022926	CR 44.060-264 rev 2 Invalid timeslot in Packet Control Acknowledgement (Rel-5)	Siemens	Approved
GP-022923	CR 44.060-266 rev 2 PACKET ACCESS REJECT for multiple TBFs (Rel-5)	Siemens	Approved
GP-022904	CR 44.060-276 Specify Control Ack for each TBF in Multiple TBF assignment messages (Rel-5)	Siemens	Approved
GP-023161	CR 44.060-277 rev 1 Section 8 – Clean-up for Multiple TBFs for Iu mode only	Siemens	Revised
GP-023250	CR 44.060-277 rev 2 Section 8 - Clean-up for Multiple TBFs for Iu mode only (Rel-5)	Siemens	Approved
GP-022931	CR 44.060-278 rev 2 Handover Access and Physical Information (Rel-5)	Nokia	Approved
GP-022920	CR 44.060-279 rev 1 Correction Packet DBPSCH Assignment message (Rel-5)	Nokia	Approved
GP-022921	CR 44.060-281 rev 1 Missing G-RNTI in RLC/MAC control messages (Rel-5)	Nokia	Approved
GP-023103	CR 44.060-282 Introduction of "DBPSCH Message" classification (Rel-5)	Nokia	Revised
GP-023249	CR 44.060-282 rev 1 Introduction of "DBPSCH Message" classification (Rel-5)	Nokia	Approved
GP-023180	CR 44.060-283 Clarification to GPRS cell reselection use in Packet Measurement Order message. (Rel 5)	Alcatel	Revised

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GP-023256	CR 44.060-283 rev 1 Clarification to GPRS cell reselection use in Packet Measurement Order message (Rel-6)	Alcatel	Postponed
GP-023181	CR 44.060-284 Clarification to the transmission of new LLC frames during a cell update procedure. (Rel 5)	Alcatel	Withdrawn
GP-023182	CR 44.060-285 Clarification to the reallocation of uplink TBF in order to send upper layer PDUs at higher Radio Priority than the established TBF. (Rel 5)	Alcatel	Revised
GP-023257	CR 44.060-285 rev 1 Clarification to the reallocation of uplink TBF in order to send upper layer PDUs at higher Radio Priority than the established TBF (Rel-6)	Alcatel	Approved
GP-023183	CR 44.060-286 Clarification to the condition of sending PACKET CONTROL ACKNOWLEDGEMENT message in case of RLC/MAC control message segmentation. (Rel 5)	Alcatel	Rejected
GP-023184	CR 44.060-287 Clarification to the handling of T3192 value set to 0 (Rel 5)	Alcatel	Revised
GP-023258	CR 44.060-287 rev 1 Clarification to the handling of T3192 value set to 0 (Rel-6)	Alcatel	Revised
GP-023367	CR 44.060-287 rev 2 Clarification to the handling of T3192 value set to 0 (Rel-6)	Alcatel	Approved
GP-023185	CR 44.060-288 Clarification of the presence of optional parameters in cell selection parameters broadcast on PBCCH. (Rel 5)	Alcatel	Revised
GP-023259	CR 44.060-288 rev 1 Clarification of the presence of optional parameters in cell selection parameters broadcast on PBCCH (Rel-6)	Alcatel	Approved
GP-023199	CR 44.060-289 Wrong references to MS Radio Access Capability (Rel-4).	Nortel Networks	Revised
GP-023246	CR 44.060-289 rev 1 Wrong references to MS Radio Access Capability (Rel-4)	Nortel Networks	Approved
GP-023200	CR 44.060-290 Wrong references to MS Radio Access Capability (Rel-5)	Nortel Networks	Revised
GP-023247	CR 44.060-290 rev 1 Wrong references to MS Radio Access Capability (Rel-5)	Nortel Networks	Approved
GP-023201	CR 44.060-291 Multiple TBF Timeslot Reconfigure message for A/Gb & Iu mode (Rel 5)	Siemens	Revised
GP-023252	CR 44.060-291 rev 1 Multiple TBF Timeslot Reconfigure message for A/Gb & Iu mode (Rel-5)	Siemens	Approved
GP-022912	CR 44.118-011 rev 1 Cleanup of section 7.8.1 Cell and GRA Update procedures (Rel-5)	Nokia	Approved
GP-022928	CR 44.118-012 rev 2 Cleanup of section 7.8.3 GERAN mobility information (Rel-5)	Nokia	Approved
GP-022913	CR 44.118-013 rev 1 Cleanup of section 7.8.4 Inter-mode Handover from GERAN Iu mode (Rel-5)	Nokia	Approved
GP-023120	CR 44.118-015 rev 1 Inter-mode cell reselection between GERAN Iu mode and GERAN A/Gb mode	Nokia	Approved
GP-022914	CR 44.118-016 rev 1 Handling of unknown, unforeseen, and erroneous protocol data (Rel-5)	Nokia	Approved
GP-022915	CR 44.118-017 rev 1 Corrections to PDCP info and RFC3095 context relocation (Rel-5)	Nokia	Approved
GP-022916	CR 44.118-018 rev 1 Alignment UTRAN/GERAN on Iu mode procedures (Rel-5)	Nokia	Approved
GP-022929	CR 44.118-019 rev 2 Corrections to Radio Bearer Control procedures (Rel-5)	Nokia	Approved
GP-022917	CR 44.118-020 rev 1 Corrections to Radio Resource Management procedures (Rel-5)	Nokia	Approved
GP-022930	CR 44.118-021 rev 3 Handover Access and Physical Information (Rel-5)	Nokia	Approved
GP-023053	CR 44.118-022 Addition of GERAN Iu Mode Support Indication in SI4, SI7 and SI8 (Rel 5)	Nokia	Approved
GP-023121	CR 44.118-023 Clarifications to HFN handling for the Radio Bearer Control Procedures	Nokia	Approved

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GP-023122	CR 44.118-024 Clarification of the security issues for intersytem handover	Nokia	Approved
GP-023123	CR 44.118-025 Corrections to Radio Resource Management procedures	Nokia	Revised
GP-023263	CR 44.118-025 rev 1 Corrections to Radio Resource Management procedures (Rel-5)	Nokia	Approved
GP-023124	CR 44.118-026 Alignment UTRAN/GERAN on Iu mode procedures	Nokia	Revised
GP-023264	CR 44.118-026 rev 1 Alignment UTRAN/GERAN on Iu mode procedures (Rel-5)	Nokia	Approved
GP-023137	CR 44.118-027 Correction of Multislot Capability Indication (Rel 5)	Nokia	Revised
GP-023265	CR 44.118-027 rev 1 Correction of Multislot Capability Indication (Rel-5)	Nokia	Approved
GP-023138	CR 44.118-028 Addition of DTM Multislot Class Indication (Rel 5)	Nokia	Withdrawn
GP-023139	CR 44.118-029 Addition of Additional DBPSCH in DTM downlink (Rel 5)	Nokia	Withdrawn
GP-023108	CR 44.118-030 Definition of RLC Buffer (Rel-5)	Nokia	Withdrawn
GP-023109	CR 44.118-031 Layer 2 errors (Rel-5)	Nokia	Revised
GP-023248	CR 44.118-031 rev 1 Layer 2 errors (5)	Nokia	Approved
GP-022922	CR 44.160-015 rev 2 Add abnormal cases to section 8 (Rel-5)	Siemens	Approved
GP-023160	CR 44.160-024 rev 1 Section 8 - Multiple TBFs for Iu mode only (Rel 5)	Siemens	Approved
GP-022905	CR 44.160-025 Handover Access and Physical Information (Rel-5)	Nokia	Approved
GP-023105	CR 44.160-026 rev 1 Clarification on 51-multiframe structure and DBPSCH: inclusion of DBPSCH/S (Rel-5)	Nokia	Revised
GP-023253	CR 44.160-026 rev 2 Clarification on 51-multiframe structure and DBPSCH: inclusion of DBPSCH/S (Rel-5)	Nokia	Approved
GP-022906	CR 44.160-027 Correction RLC SDU Discard (Rel-5)	Nokia	Approved
GP-022907	CR 44.160-028 Removal of timer T3197 (Rel-5)	Nokia	Approved
GP-023104	CR 44.160-029 rev 1 Abnormal Cases for DBPSCH operation (Rel 5)	Nokia	Approved
GP-022918	CR 44.160-030 rev 1 Addition of GERAN Iu Mode Support Indication in SI4, SI7 and SI8 (Rel-5)	Nokia	Approved
GP-023107	CR 44.160-031 Definition of RLC Buffer (Rel-5)	Nokia	Revised
GP-023255	CR 44.160-031 rev 1 Definition of RLC Buffer (Rel-5)	Nokia	Revised
GP-023366	CR 44.160-031 rev 2 Definition of RLC Buffer (Rel-5)	Nokia	Approved
GP-023063	CR 45.001-019 rev 1 Implementation of new frequency ranges into 45.001 (Rel 6)	ETSI Project TETRA	Revised
GP-023321	CR 45.001-019 rev 2 Implementation of new frequency ranges into 45.001 (Rel 6)	ETSI Project TETRA	Approved
GP-023113	CR 45.001-020 CRC Sizes for AMR-WB (Rel 5)	Nokia	Approved
GP-023114	CR 45.002-055 Inclusion of DBPSCH (Rel 5)	Nokia	Approved
GP-023140	CR 45.002-057 Addition of Additional DBPSCH in DTM downlink (Rel 5)	Nokia	Withdrawn
GP-023141	CR 45.002-058 Mapping of SI13alt message on BCCH (Rel 5)	Nokia	Approved
GP-023405	CR 45.002-059 Correction for SBPSCH in Iu Mode DTM	Nokia	Approved
GP-023064	CR 45.005-052 rev 1 Implementation of new frequency ranges into 45.005 (Rel 6)	ETSI Project TETRA	Revised
GP-023319	CR 45.005-052 rev 2 Implementation of new frequency ranges into 45.005 (Rel 6)	ETSI Project TETRA	Approved
GP-023018	CR 45.005-059 Rice Doppler Spectrum definition (Rel 6)	Nokia	Revised
GP-023421	CR 45.005-059 rev 1 Rice Doppler Spectrum definition (Rel 6)	Nokia	Postponed
GP-023019	CR 45.005-060 Correction of antenna Feeder loss compensator requirements (Rel 6)	Nokia	Revised
GP-023422	CR 45.005-060 rev 1 Correction of antenna Feeder loss compensator requirements (Rel 6)	Nokia	Approved
GP-023075	CR 45.005-061 Correction of performance requirements for O-TCH/WFS (Rel-5)	Ericsson, Nokia, Siemens, Philips	Approved
GP-023076	CR 45.005-062 Correction of performance requirements for O-TCH/WHS (Rel-5)	Ericsson, Nokia, Siemens, Philips	Approved

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GP-023077	CR 45.005-063 Correction of performance requirements for O-TCH/AHS (Rel-5)	Ericsson, Nokia, Siemens, Philips	Approved
GP-023078	CR 45.005-064 Correction of performance requirements for TCH/WFS (Rel-5)	Ericsson, Nokia, Siemens, Philips	Approved
GP-023079	CR 45.005-065 Correction of performance requirements for O-FACCH channels (Rel-5)	Ericsson, Nokia, Siemens, Philips	Approved
GP-023080	CR 45.005-066 Correction to reference performance for AMR Rel5 (Rel-5)	Ericsson, Nokia, Siemens, Philips	Approved
GP-023020	CR 45.008-139 Applicability of broadcast parameters versus default point-to-point messages (Rel 6)	Nokia	Revised
GP-023423	CR 45.008-139 rev 1 Applicability of broadcast parameters versus default point-to-point messages (Rel 6)	Nokia	Approved
GP-023098	CR 45.008-140 Clarifications to inter-RAT cell reselection algorithm and procedure (Rel 4)	Motorola	Rejected
GP-023099	CR 45.008-141 Clarifications to inter-RAT cell reselection algorithm and procedure (Rel 5)	Motorola	Revised
GP-023315	CR 45.008-141 rev 1 Clarifications to inter-RAT cell reselection algorithm and procedure (Rel 5)	Motorola	Rejected
GP-023177	CR 45.008-142 Clarification to cell selection parameter acquisition from neighbour cells while in packet idle mode in a cell witout PCCCH. (Rel 5)	Alcatel	Revised
GP-023311	CR 45.008-142 rev 1 Clarification to cell selection parameter acquisition from neighbour cells while in packet idle mode in a cell witout PCCCH. (Rel 6)	Alcatel	Revised
GP-023403	CR 45.008-142 rev 2 Clarification to cell selection parameter acquisition from neighbour cells while in packet idle mode in a cell witout PCCCH. (Rel 6)	Alcatel	Approved
GP-023178	CR 45.008-143 Clarification to cells reselection list to use for an MS autonomous cell reselection. (Rel 5)	Alcatel	Revised
GP-023312	CR 45.008-143 rev 1 Clarification to cells reselection list to use for an MS autonomous cell reselection. (Rel 6)	Alcatel	Approved
GP-023179	CR 45.008-144 Clarification to GPRS cell reselection use in Packet Measurement Order message. (Rel 5)	Alcatel	Revised
GP-023313	CR 45.008-144 rev 1 Clarification to GPRS cell reselection use in Packet Measurement Order message. (Rel 6)	Alcatel	Approved
GP-023194	CR 45.008-145 RX_QUAL value clarification (Rel 5)	Alcatel	Revised
GP-023314	CR 45.008-145 rev 1 RX_QUAL value clarification (Rel 6)	Alcatel	Revised
GP-023406	CR 45.008-145 rev 2 RX_QUAL value clarification (Rel 6)	Alcatel	Approved
GP-023065	CR 45.050-001 rev 1 Implementation of new frequency ranges into 45.050 (Rel 6)	ETSI Project TETRA	Revised
GP-023320	CR 45.050-001 rev 2 Implementation of new frequency ranges into 45.050 (Rel 6)	ETSI Project TETRA	Approved
GP-023086	CR 48.008-062 Interworking between security mode procedure and relocation (Rel-5)	Siemens AG	Approved
GP-023088	CR 48.008-063 CS data services for GERAN Iu Mode (Rel-5)	Siemens AG	Revised
GP-023260	CR 48.008-063 rev 1 CS data services for GERAN Iu Mode (Rel-5)	Siemens AG	Approved
GP-023092	CR 48.008-064 IMSI availability in BSS (Rel 5)	Nokia	Rejected
GP-023197	CR 48.008-065 Correction and cleanup of inter-system handover procedures. (Rel-5)	Nortel Networks	Revised
GP-023261	CR 48.008-065 rev 1 Correction and cleanup of inter-system handover procedures (Rel-6)	Nortel Networks	Approved
GP-022850	CR 51.010-1-1069 TC 51.2.3.2 Two-message assignment / Failure cases - Change to specific message contents	Setcom	Approved
GP-022851	CR 51.010-1-1070 Test cases 46.2.2.1.4 – Modification of the size of uplink data to transfer	Setcom	Revised
GP-023382	CR 51.010-1-1070 rev 1 Test cases 46.2.2.1.4 – Modification of the size of uplink data to transfer	Setcom	Approved
GP-022852	CR 51.010-1-1071 TC 51.3.5.2 correction of some steps	Setcom	Withdrawn
GP-022853	CR 51.010-1-1072 TC 41.3.5.2 correction of some steps	Setcom	Revised

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GP-023272	CR 51.010-1-1072 rev 1 TC 41.3.5.2 correction of some steps	Setcom	Approved
GP-022854	CR 51.010-1-1073 TC 52.1.1.6.3 should be corrected to take care of MS set to do PRACH in fixed way	Setcom	Withdrawn
GP-022855	CR 51.010-1-1074 TC 42.1.1.4.3 should be corrected to take care of MS set to do PRACH in fixed way	Setcom	Withdrawn
GP-022856	CR 51.010-1-1075 TC 51.2.2.6 New Testcase added	Setcom	Approved
GP-022857	CR 51.010-1-1076 TC 52.1.1.7 New Testcase added	Setcom	Approved
GP-022858	CR 51.010-1-1077 Testcase 52.1.2.1.8.2.3 deleted and new Testcase 52.1.2.2.6 added	Setcom	Revised
GP-023277	CR 51.010-1-1077 rev 1 Testcase 52.1.2.1.8.2.3 deleted and new Testcase 52.1.2.2.6 added	Setcom	Approved
GP-022859	CR 51.010-1-1078 TC 53.1.1.21 Addition of optional steps to cater to MS reaction time	Setcom	Revised
GP-023286	CR 51.010-1-1078 rev 1 TC 53.1.1.21 Addition of optional steps to cater to MS reaction time	Setcom	Approved
GP-022860	CR 51.010-1-1079 TC 53.1.1.20 Addition of optional steps to cater to MS reaction time	Setcom	Revised
GP-023285	CR 51.010-1-1079 rev 1 TC 53.1.1.20 Addition of optional steps to cater to MS reaction time	Setcom	Approved
GP-022861	CR 51.010-1-1080 TC 53.1.1.18 Addition of optional steps to cater to MS reaction time	Setcom	Withdrawn
GP-022862	CR 51.010-1-1081 TC 53.1.1.4 Window Size value in not relevant to testcase sequence	Setcom	Withdrawn
GP-022863	CR 51.010-1-1082 Testcase 51.2.5.2 should be done in transfer mode.	Setcom	Revised
GP-023281	CR 51.010-1-1082 rev 1 Testcase 53.1.1.4 should be done in transfer mode.	Setcom	Approved
GP-022864	CR 51.010-1-1083 TC 53.1.1.6 CV calculation was wrong	Setcom	Approved
GP-022865	CR 51.010-1-1084 TC 53.1.1.5 Addition of optional steps to cater to MS reaction time	Setcom	Approved
GP-022866	CR 51.010-1-1085 TC 53.1.1.3 Addition of optional steps to cater to MS reaction time	Setcom	Revised
GP-023287	CR 51.010-1-1085 rev 1 TC 53.1.1.3 Addition of optional steps to cater to MS reaction time	Setcom	Approved
GP-022867	CR 51.010-1-1086 52.1.2.1.10.1– testcase not testing EGPRS Multislot class	Setcom	Approved
GP-022868	CR 51.010-1-1087 TC 51.3.1.2 correction of some steps	Setcom	Revised
GP-023282	CR 51.010-1-1087 rev 1 TC 51.3.1.2 correction of some steps	Setcom	Approved
GP-022869	CR 51.010-1-1088 TC 41.3.1.2 correction of some steps	Setcom	Revised
GP-023271	CR 51.010-1-1088 rev 1 TC 41.3.1.2 correction of some steps	Setcom	Approved
GP-022870	CR 51.010-1-1089 TC 51.2.2.1 Initiation of the packet access procedure/establishment causes	Setcom	Withdrawn
GP-022871	CR 51.010-1-1090 TC 51.2.2.3 Random references for Short access	Setcom	Withdrawn
GP-022872	CR 51.010-1-1091 TC 52.3.2.1 Dynamic Allocation / Uplink Transfer with Downlink TBF establishment / Normal	Setcom	Approved
GP-022873	CR 51.010-1-1092 TC 53.1.2.16 Acknowledged Mode/ Downlink TBF/ Received Block Bitmap/ Compressed Bitmap Starting Colour Code	Setcom	Approved
GP-022874	CR 51.010-1-1093 TC 53.1.1.15 Acknowledged Mode/ Uplink TBF/ Recalculation of CV on MCS change	Setcom	Withdrawn
GP-022875	CR 51.010-1-1094 TC 53.1.2.10 Acknowledged Mode/ Downlink TBF/ Split RLC Data Block	Setcom	Approved
GP-022876	CR 51.010-1-1095 TC 53.1.1.11 Acknowledged Mode/ Uplink TBF/ Pre-emptive Transmission Bit Set to '0'/ Negative Acknowledgement	Setcom	Revised
GP-023288	CR 51.010-1-1095 rev 1 TC 53.1.1.11 Acknowledged Mode/ Uplink TBF/ Pre-emptive Transmission Bit Set to '0'/ Negative Acknowledgement	Setcom	Approved
GP-022877	CR 51.010-1-1096 TC 51.3.4.2 TBF Release / Downlink / Normal / Network initiated / Unacknowledged mode	Setcom	Approved

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GP-022878	CR 51.010-1-1097 TC 51.3.1.1 TBF Release / Uplink / Normal / MS initiated / Acknowledged mode	Setcom	Approved
GP-022879	CR 51.010-1-1098 TC 51.2.3.8 One phase packet access / Contention resolution / 4 access repetition attempts	Setcom	Revised
GP-023283	CR 51.010-1-1098 rev 1 TC 51.2.3.8 One phase packet access / Contention resolution / 4 access repetition attempts	Setcom	Withdrawn
GP-022880	CR 51.010-1-1099 TC 51.2.5.1 Packet access rejection / wait indication	Setcom	Approved
GP-022881	CR 51.010-1-1100 TC 52.1.2.1.9.2.2 : Deletion of steps 5 and 6.	Setcom	Approved
GP-022882	CR 51.010-1-1101 Testcase 51.2.5.2 should be done in transfer mode.	Setcom	Withdrawn
GP-022883	CR 51.010-1-1102 New testcase 53.1.1.23 Acknowledged Mode/ Uplink TBF/ Interpretation of Compressed Bitmap	Setcom	Revised
GP-023289	CR 51.010-1-1102 rev 1 New testcase 53.1.1.23 Acknowledged Mode/ Uplink TBF/ Interpretation of Compressed Bitmap	Setcom	Approved
GP-022884	CR 51.010-1-1103 New testcase 53.1.1.22 Acknowledged Mode/ Uplink TBF/ Recalculation of CV on TBC change	Setcom	Approved
GP-022885	CR 51.010-1-1104 Section 9 - Format of tests	Ericsson	Approved
GP-022888	CR 51.010-1-1105 TC 53.1.2.13 Acknowledged Mode/ Downlink TBF/ IR Operation	Siemens	Revised
GP-023290	CR 51.010-1-1105 rev 1 TC 53.1.2.13 Acknowledged Mode/ Downlink TBF/ IR Operation	Siemens	Revised
GP-023420	CR 51.010-1-1105 rev 2 TC 53.1.2.13 Acknowledged Mode/ Downlink TBF/ IR Operation	Siemens	Approved
GP-022889	CR 51.010-1-1106 Two subsections, namely 14.1.5 and 14.1.6, have been duplicated	NEC	Approved
GP-022890	CR 51.010-1-1107 Corrections to the LCS EOTD Test Cases	Ericsson	Approved
GP-022893	CR 51.010-1-1108 TBF release / Uplink / Normal / MS initiated / Whilst in DTM (Rel-5)	Vodafone Group	Approved
GP-022894	CR 51.010-1-1109 TBF release / Uplink / Normal / Network initiated / Whilst in DTM (Rel-5)	Vodafone Group	Revised
GP-023340	CR 51.010-1-1109 rev 1 TBF release / Uplink / Normal / Network initiated / Whilst in DTM (Rel-5)	Vodafone Group	Approved
GP-022895	CR 51.010-1-1110 TBF release / Downlink / Normal / Network initiated / Whilst in DTM (Rel-5)	Vodafone Group	Approved
GP-022896	CR 51.010-1-1111 Uplink TBF establishment with no reallocation of CS resources / Abnormal cases / Inter System to UTRAN Handover Command (Rel-5)	Vodafone Group	Revised
GP-023341	CR 51.010-1-1111 rev 1 Uplink TBF establishment with no reallocation of CS resources / Abnormal cases / Inter System to UTRAN Handover Command (Rel-5)	Vodafone Group	Approved
GP-022897	CR 51.010-1-1112 Uplink TBF establishment with a downlink TBF established and no PS downlink reallocation (Rel-5)	Vodafone Group	Approved
GP-022898	CR 51.010-1-1113 Uplink TBF establishment with a downlink TBF established and PS downlink reallocation (Rel-5)	Vodafone Group	Approved
GP-022899	CR 51.010-1-1114 Downlink TBF establishment with a uplink TBF established and no PS uplink reallocation (Rel-5)	Vodafone Group	Approved
GP-022900	CR 51.010-1-1115 Downlink TBF establishment with a uplink TBF established and PS uplink reallocation (Rel-5)	Vodafone Group	Approved
GP-022901	CR 51.010-1-1116 Power control in exclusive allocation mode (Rel-5)	Vodafone Group	Revised
GP-023342	CR 51.010-1-1116 rev 1 Power control in exclusive allocation mode (Rel-5)	Vodafone Group	Approved
GP-022902	CR 51.010-1-1117 Timing advance whilst in DTM (Rel-5)	Vodafone Group	Approved
GP-022903	CR 51.010-1-1118 Corrections to WG4 DTM Test Cases (Rel-5)	Vodafone Group	Approved
GP-022935	CR 51.010-1-1119 PDP Context Activation / Performed on main DCCH and TBFs (Rel-5)	Vodafone Group	Revised
GP-023347	CR 51.010-1-1119 rev 1 PDP Context Activation / Performed on main DCCH and TBFs (Rel-5)	Vodafone Group	Approved

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GP-022936	CR 51.010-1-1120 Change of cell between two LAs in idle mode / RAU completes first (Rel-5)	Vodafone Group	Revised
GP-023297	CR 51.010-1-1120 rev 1 Change of cell between two LAs in idle mode / RAU completes first (Rel-5)	Vodafone Group	Revised
GP-023302	CR 51.010-1-1120 rev 2 Change of cell between two LAs in idle mode / RAU completes first (Rel-5)	Vodafone Group	Approved
GP-022937	CR 51.010-1-1121 Change of cell between two LAs in idle mode / LAU completes first / SS releases channel (Rel-5)	Vodafone Group	Revised
GP-023298	CR 51.010-1-1121 rev 1 Change of cell between two LAs in idle mode / LAU completes first / SS releases channel (Rel-5)	Vodafone Group	Revised
GP-023303	CR 51.010-1-1121 rev 2 Change of cell between two LAs in idle mode / LAU completes first / SS releases channel (Rel-5)	Vodafone Group	Approved
GP-022938	CR 51.010-1-1122 Change of cell between two LAs in idle mode / LAU completes first / SS maintains channel (Rel-5)	Vodafone Group	Revised
GP-023299	CR 51.010-1-1122 rev 1 Change of cell between two LAs in idle mode / LAU completes first / SS maintains channel (Rel-5)	Vodafone Group	Revised
GP-023304	CR 51.010-1-1122 rev 2 Change of cell between two LAs in idle mode / LAU completes first / SS maintains channel (Rel-5)	Vodafone Group	Approved
GP-022939	CR 51.010-1-1123 Change of routeing area whilst in dedicated mode (Rel-5)	Vodafone Group	Revised
GP-023300	CR 51.010-1-1123 rev 1 Change of routeing area whilst in dedicated mode (Rel-5)	Vodafone Group	Approved
GP-022940	CR 51.010-1-1124 Intra frequency reallocation of CS resources / DTM Assignment Command (Rel-5)	Vodafone Group	Revised
GP-023306	CR 51.010-1-1124 rev 1 Intra frequency reallocation of CS resources / DTM Assignment Command (Rel-5)	Vodafone Group	Approved
GP-022941	CR 51.010-1-1125 Inter frequency reallocation of CS resources / DTM Assignment Command (Rel-5)	Vodafone Group	Revised
GP-023307	CR 51.010-1-1125 rev 1 Inter frequency reallocation of CS resources / DTM Assignment Command (Rel-5)	Vodafone Group	Approved
GP-022942	CR 51.010-1-1126 Mobile originating CS release (Rel-5)	Vodafone Group	Revised
GP-023308	CR 51.010-1-1126 rev 1 Mobile originating CS release (Rel-5)	Vodafone Group	Approved
GP-022943	CR 51.010-1-1127 Network originating CS release (Rel-5)	Vodafone Group	Revised
GP-023309	CR 51.010-1-1127 rev 1 Network originating CS release (Rel-5)	Vodafone Group	Approved
GP-022944	CR 51.010-1-1128 Handover to different routeing area whilst in DM / Performed on main DCCH / RAU complete before CS release (Rel-5)	Vodafone Group	Revised
GP-023310	CR 51.010-1-1128 rev 1 Handover to different routeing area whilst in DM / Performed on main DCCH / RAU complete before CS release (Rel-5)	Vodafone Group	Approved
GP-022945	CR 51.010-1-1129 Handover to different routeing area whilst in DM / Performed on main DCCH / CS release before RAU complete (Rel-5)	Vodafone Group	Revised
GP-023346	CR 51.010-1-1129 rev 1 Handover to different routeing area whilst in DM / Performed on main DCCH / CS release before RAU complete (Rel-5)	Vodafone Group	Approved
GP-022946	CR 51.010-1-1130 Handover to UTRAN while in DTM	Vodafone Group	Revised
GP-023348	CR 51.010-1-1130 rev 1 Handover to UTRAN while in DTM	Vodafone Group	Approved
GP-022950	CR 51.010-1-1131 Corrections to WG5 DTM Test Cases (Rel-5)	Vodafone Group	Revised
GP-023305	CR 51.010-1-1131 rev 1 Corrections to WG5 DTM Test Cases (Rel-5)	Vodafone Group	Approved
GP-022952	CR 51.010-1-1132 TC 42.1.1.2 Packet Channel Request / Response to Packet Paging	Siemens	Approved
GP-022953	CR 51.010-1-1133 TC 14.18.7 Incremental Redundancy Performance	Siemens	Revised
GP-023344	CR 51.010-1-1133 rev 1 TC 14.18.7 Incremental Redundancy Performance	Siemens	Revised
GP-023419	CR 51.010-1-1133 rev 2 TC 14.18.7 Incremental Redundancy Performance	Siemens	Approved

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GP-022968	CR 51.010-1-1134 53.1.1.16 Acknowledged Mode/ Uplink TBF/ Retransmission/ Padding in the Data Field	Setcom	Revised
GP-023325	CR 51.010-1-1134 rev 1 53.1.1.16 Acknowledged Mode/ Uplink TBF/ Retransmission/ Padding in the Data Field	Setcom	Approved
GP-022969	CR 51.010-1-1135 S50 EGPRS Default Conditions, Message Contents and Macros for the Higher Layer Testcases	Setcom	Revised
GP-023279	CR 51.010-1-1135 rev 1 S50 EGPRS Default Conditions, Message Contents and Macros for the Higher Layer Testcases	Setcom	Revised
GP-023418	CR 51.010-1-1135 rev 2 S50 EGPRS Default Conditions, Message Contents and Macros for the Higher Layer Testcases	Setcom	Approved
GP-022980	CR 51.010-1-1136 14.16.1 Minimum Input Level for Reference Performance, USF/CS-1 and USF/CS-2 to 4	Anite	Approved
GP-022981	CR 51.010-1-1137 20.22.09 Correction of cell configuration in step p)	Anite	Approved
GP-022982	CR 51.010-1-1138 20.22.12 Removal of wrong step d)	Anite	Approved
GP-022983	CR 51.010-1-1139 20.20.1.2 Modify no. of channels to be searched for PCS 1900 band	Anite	Approved
GP-022984	CR 51.010-1-1140 20.22.3 Missing GPRS_RXLEV_ACCESS_MIN for carrier 2 and GPRS_RXLEV_ACCESS_MIN sepcified for BCCH	Anite	Withdrawn
GP-022985	CR 51.010-1-1141 20.22.4 GPRS_RXLEV_ACCESS_MIN and GPRS_RESELECT_OFFSET sepcified for BCCH	Anite	Withdrawn
GP-022986	CR 51.010-1-1142 20.20.1.4.1 modification in MNC value for PCS 1900 band	Anite	Approved
GP-022987	CR 51.010-1-1143 22.3 remove unnecessary constraint in initial conditions	Anite	Revised
GP-023331	CR 51.010-1-1143 rev 1 22.3 remove unnecessary constraint in initial conditions	Anite	Approved
GP-022988	CR 51.010-1-1144 26.16.6 Restricting repetition of procedure to FR and HR speech version 3.	Anite	Revised
GP-023296	CR 51.010-1-1144 rev 1 26.16.6 Restricting repetition of procedure to FR and HR speech version 3.	Anite	Approved
GP-022989	CR 51.010-1-1145 20, Table 20.1 BA ARFCNs for PCS 1900 for Multiband test cases	Anite	Approved
GP-022990	CR 51.010-1-1146 41.3.1.2 Insufficient uplink data requested at step 16	Anite	Withdrawn
GP-022991	CR 51.010-1-1147 41.2.2.4 Initiation of the packet access procedure / timer T3146	Anite	Withdrawn
GP-022992	CR 51.010-1-1148 41.3.5.2 Correction of test procedure and expected sequence in order to clarify use of multiple timeslots	Anite	Withdrawn
GP-022993	CR 51.010-1-1149 42.3.1.1.4 Insufficient Reaction time permitted for the MS for the DownLink Assignment in step 2	Anite	Revised
GP-023273	CR 51.010-1-1149 rev 1 42.3.1.1.4 Insufficient Reaction time permitted for the MS for the DownLink Assignment in step 2	Anite	Approved
GP-022994	CR 51.010-1-1150 42.4.2.3.1 Incorect step numbering in the and missing information about USF addressing the MS in the Test steps comments	Anite	Approved
GP-022995	CR 51.010-1-1151 42.3.1.1.9 Multiple corrections to initial conditions, expected sequence and specific message contents	Anite	Withdrawn
GP-022996	CR 51.010-1-1152 46.1.2.2.1.1 Move initiation of data transfer to new test step 4	Anite	Approved
GP-022997	CR 51.010-1-1153 46.2.2.1.3 Correction of T in SN-DATA PDU in step 11	Anite	Approved
GP-022998	CR 51.010-1-1154 46.1.2.2.2.2 Removal of test step 6, 7, 8 and 13	Anite	Approved
GP-022999	CR 51.010-1-1155 46.2.2.4.1 Release and re-establishment of LLC added in step 3 to 6	Anite	Approved
GP-023000	CR 51.010-1-1156 46.1.2.2.1.4 New test step 5: Reception of an UI frame	Anite	Revised

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GP-023352	CR 51.010-1-1156 rev 1 46.1.2.2.1.4 New test step 5: Reception of an UI frame	Anite	Approved
GP-023001	CR 51.010-1-1157 46.1.2.2.2.3 Correction of N(R) and N(S) values and removal of steps 12 and 13	Anite	Revised
GP-023353	CR 51.010-1-1157 rev 1 46.1.2.2.2.3 Correction of N(R) and N(S) values and removal of steps 12 and 13	Anite	Approved
GP-023002	CR 51.010-1-1158 46.1.2.2.3.2 Combining step 4 and 5 to one test step	Anite	Revised
GP-023355	CR 51.010-1-1158 rev 1 46.1.2.2.3.2 Combining step 4 and 5 to one test step	Anite	Approved
GP-023003	CR 51.010-1-1159 46.1.2.2.4.1 Add new test step 5	Anite	Approved
GP-023004	CR 51.010-1-1160 46.2.2.4.2 Algorithm type in step 2 removed	Anite	Approved
GP-023005	CR 51.010-1-1161 46.1.2.2.1.5 Correction of test step 2: Remove Initiation of data transfer	Anite	Approved
GP-023006	CR 51.010-1-1162 46.1.2.2.2.4 Removal of step 5 and correction of test procedure.	Anite	Revised
GP-023354	CR 51.010-1-1162 rev 1 46.1.2.2.2.4 Removal of step 5 and correction of test procedure.	Anite	Approved
GP-023007	CR 51.010-1-1163 46.1.2.7.2 Removal of constraint for C/R bit in step 7)	Anite	Approved
GP-023008	CR 51.010-1-1164 46.1.2.7.5 Correction of amount of uplink data in step 12)	Anite	Approved
GP-023009	CR 51.010-1-1165 46.1.2.7.6 Correction of testing time and macro direction in step 14)	Anite	Revised
GP-023381	CR 51.010-1-1165 rev 1 46.1.2.7.6 Correction of testing time and macro direction in step 14)	Anite	Approved
GP-023010	CR 51.010-1-1166 51.3.1.2 Insufficient uplink data requested at step 16		Withdrawn
GP-023011	CR 51.010-1-1167 51.3.1.3 The order of the optional steps A6 and A12 is incorrect.	Anite	Revised
GP-023345	CR 51.010-1-1167 rev 1 51.3.1.3 The order of the optional steps A6 and A12 is incorrect.	Anite	Approved
GP-023012	CR 51.010-1-1168 51.2.2.4 Initiation of the packet access procedure / timer T3146	Anite	Withdrawn
GP-023013	CR 51.010-1-1169 51.3.5.2 Correction of test procedure and expected sequence in order to clarify use of multiple timeslots	Anite	Revised
GP-023280	CR 51.010-1-1169 rev 1 51.3.5.2 Correction of test procedure and expected sequence in order to clarify use of multiple timeslots	Anite	Approved
GP-023014	CR 51.010-1-1170 52.3.1.1.4 Insufficient Reaction time permitted for the MS for the DownLink Assignment in step 2	Anite	Revised
GP-023274	CR 51.010-1-1170 rev 1 52.3.1.1.4 Insufficient Reaction time permitted for the MS for the DownLink Assignment in step 2	Anite	Approved
GP-023015	CR 51.010-1-1171 52.4.3.2.1 Incorect step numbering in the and missing information about USF addressing the MS in the Test steps comments	Anite	Revised
GP-023275	CR 51.010-1-1171 rev 1 52.4.3.2.1 Incorect step numbering in the and missing information about USF addressing the MS in the Test steps comments	Anite	Approved
GP-023016	CR 51.010-1-1172 26.16.4 & 26.16.4a To correct the specification of speech versions supported by MS.	Anite	Revised
GP-023301	CR 51.010-1-1172 rev 1 26.16.4 & 26.16.4a To correct the specification of speech versions supported by MS.	Anite	Revised
GP-023394	CR 51.010-1-1172 rev 2 26.16.4 & 26.16.4a To correct the specification of speech versions supported by MS.	Anite	Approved
GP-023017	CR 51.010-1-1173 Enhanced Measurement Report, All neighbors present	Motorola	Revised
GP-023332	CR 51.010-1-1173 rev 1 Enhanced Measurement Report, All neighbors present	Motorola	Approved

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GP-023025	CR 51.010-1-1174 Basic Self Location in Dedicated Mode Test Case for Assisted GPS	Qualcomm	Revised
GP-023386	CR 51.010-1-1174 rev 1 Basic Self Location in Dedicated Mode Test Case for Assisted GPS	Qualcomm	Approved
GP-023026	CR 51.010-1-1175 Transfer to 3rd Party Test Case for Assisted GPS	Qualcomm	Revised
GP-023387	CR 51.010-1-1175 rev 1 Transfer to 3rd Party Test Case for Assisted GPS	Qualcomm	Approved
GP-023028	CR 51.010-1-1176 Correction of Initial Conditions and Expected Sequence for clause 41.1.5.3 - RR / Paging / on CCCH for GPRS service / paging reorganisation	Nokia	Approved
GP-023029	CR 51.010-1-1177 Alignment of the Expected Sequence for clause 42.1.2.2.4 - Packet Downlink Assignment / Response to Packet Polling	Ericsson & Nokia	Approved
GP-023030	CR 51.010-1-1178 Steps 9 to 24 are made optional for K=1 and the wait indication value for K=2 has been changed for clause 42.3.3.3 - Dynamic Allocation / Resource reallocation / Reject	Nokia	Approved
GP-023031	CR 51.010-1-1179 Correction of Initial Conditions and Expected Sequence for clause 51.1.5.3 - RR / Paging / on CCCH for EGPRS service / paging reorganisation	Nokia	Approved
GP-023032	CR 51.010-1-1180 Updates to allow the new Acces Type ‘signalling’ in clauses 51.2.2.1; 51.2.2.2 and 51.2.2.3 - Initiation of the packet access procedure	Nokia	Approved
GP-023034	CR 51.010-1-1181 Alignment of the Expected Sequence for clause 52.1.2.2.4 - Packet Downlink Assignment / Response to Packet Polling	Ericsson & Nokia	Approved
GP-023035	CR 51.010-1-1182 Steps 9 to 24 are made optional for K=1 and the wait indication value for K=2 has been changed for clause 52.3.3.3 - Dynamic Allocation / Resource reallocation / Reject	Nokia	Approved
GP-023036	CR 51.010-1-1183 Alignment of GERAN#7 CR GP-012786 and correction in Specific Message Content for step 4 in clauses 52.5.5.1, 52.5.5.2 and 52.5.5.3 - Downlink Transfer / Reestablishment	Nokia	Revised
GP-023336	CR 51.010-1-1183 rev 1 Alignment of GERAN#7 CR GP-012786 and correction in Specific Message Content for step 4 in clauses 52.5.5.1, 52.5.5.2 and 52.5.5.3 - Downlink Transfer / Reestablishment	Nokia	Approved
GP-023037	CR 51.010-1-1184 Setting pre-emptive bit to 0 in step 3 in clause 53.1.1.10 - Acknowledged Mode/ Uplink TBF/ Pre-emptive Transmission Bit Set to '0'/ PENDING_ACK Blocks	Nokia	Revised
GP-023326	CR 51.010-1-1184 rev 1 Setting pre-emptive bit to 0 in step 3 in clause 53.1.1.10 - Acknowledged Mode/ Uplink TBF/ Pre-emptive Transmission Bit Set to '0'/ PENDING_ACK Blocks	Nokia	Approved
GP-023038	CR 51.010-1-1185 Correction of Conformance Requirement and Expected Sequence for clause 53.1.1.15 - Acknowledged Mode/ Uplink TBF/ Recalculation of CV on MCS change	Nokia	Approved
GP-023039	CR 51.010-1-1186 Change of steps 8 and 10 of the Expected Sequence in clause 53.1.1.17 - Acknowledged Mode / Uplink TBF / Retransmission / Puncturing Scheme Cycle	Nokia	Approved
GP-023040	CR 51.010-1-1187 Changing of Window Size in the Expected Sequence in order to avoid expiry of T3182 for clause 53.1.1.4 - Acknowledged Mode/ Uplink TBF/ Window Size/ Assigned Value	Nokia	Revised
GP-023327	CR 51.010-1-1187 rev 1 Changing of Window Size in the Expected Sequence in order to avoid expiry of T3182 for clause 53.1.1.4 - Acknowledged Mode/ Uplink TBF/ Window Size/ Assigned Value	Nokia	Approved
GP-023041	CR 51.010-1-1188 Preventing of T3182 expiry in clause 53.1.1.9 - Acknowledged Mode/ Uplink TBF/ Pre-emptive Transmission Bit Set to '1'	Nokia	Approved
GP-023042	CR 51.010-1-1189 Adding an uplink TBF in order to be able to test all the conformance requirements for´ clauses 53.1.2.3 and 53.1.2.4 - Acknowledged Mode / Downlink TBF / Window Size.	Nokia	Approved

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GP-023043	CR 51.010-1-1190 Changing of the data amount expression for section 53.1.1.x - Acknowledged Mode / Uplink TBF	Nokia	Withdrawn
GP-023044	CR 51.010-1-1191 New EGPRS test cases for verification of usage of correct Access Type when EGPRS PACKET CHANNEL REQUEST is supported and when it is not supported in the cell. Clauses 52.6 - EGPRS Packet Access for signalling	Nokia	Revised
GP-023337	CR 51.010-1-1191 rev 1 New EGPRS test cases for verification of usage of correct Access Type when EGPRS PACKET CHANNEL REQUEST is supported and when it is not supported in the cell. Clauses 52.6 - EGPRS Packet Access for signalling	Nokia	Approved
GP-023046	CR 51.010-1-1193 Alignment of Conformance Requirement, Test Procedure and Expected Sequence according to 24.008 for clause 44.2.3.2.5.3.1 - Combined routing area updating / rejected / roaming not allowed in this location area.	Nokia	Rejected
GP-023048	CR 51.010-1-1194 Section 20.22.2 Cell reselection in Packet Idle mode	Rohde & Schwarz	Approved
GP-023049	CR 51.010-1-1195 Section 20.22.9 Cell reselection when the best cell does not support GPRS	Rohde & Schwarz	Revised
GP-023330	CR 51.010-1-1195 rev 1 Section 20.22.9 Cell reselection when the best cell does not support GPRS	Rohde & Schwarz	Approved
GP-023050	CR 51.010-1-1196 Section 20 Cell selection and reselection	Rohde & Schwarz	Approved
GP-023051	CR 51.010-1-1197 Section 50 EGPRS Default Conditions, Message Contents and Macros	Rohde & Schwarz	Revised
GP-023278	CR 51.010-1-1197 rev 1 Section 50 EGPRS Default Conditions, Message Contents and Macros	Rohde & Schwarz	Approved
GP-023052	CR 51.010-1-1198 Section 40.5 Test PDP contexts	Rohde & Schwarz	Revised
GP-023349	CR 51.010-1-1198 rev 1 Section 40.5 Test PDP contexts	Rohde & Schwarz	Approved
GP-023066	CR 51.010-1-1199 42.3.1.1.4 Dynamic Allocation / Uplink Transfer / Normal / Starting time	Mitsubishi Electric Telecom Europe	Approved
GP-023067	CR 51.010-1-1200 52.3.1.1.4 Dynamic Allocation / Uplink Transfer / Normal / Starting time	Mitsubishi Electric Telecom Europe	Approved
GP-023068	CR 51.010-1-1201 44.2.3.2.5 Test purpose 1 - Cell re-selection due to power levels	Anite	Revised
GP-023232	CR 51.010-1-1201 rev 1 44.2.3.2.5 Test purpose 1 - Cell re-selection due to power levels	Anite	Rejected
GP-023070	CR 51.010-1-1202 TC 26.16.0 Update of AMR default message contents	Racal Instruments	Withdrawn
GP-023071	CR 51.010-1-1203 TC 26.16.9.11 correction of AMR threshold and hysteresis values	Racal Instruments	Withdrawn
GP-023072	CR 51.010-1-1204 TC 26.16.9.11 correction of message flow and AMR threshold and hysteresis values	Racal Instruments	Approved
GP-023073	CR 51.010-1-1205 TC 26.16.9.12 correction of AMR threshold and hysteresis values	Racal Instruments	Approved
GP-023081	CR 51.010-1-1206 Introduction of NACC test cases in section 42.4.5	Ericsson	Withdrawn
GP-023083	CR 51.010-1-1207 Section 60 Inter System Handover	Ericsson, Motorola	Approved
GP-023084	CR 51.010-1-1208 Introduction of UTRAN Classmark Change test cases in section 26.6.11	Ericsson	Revised
GP-023391	CR 51.010-1-1208 rev 1 Introduction of UTRAN Classmark Change test cases in section 26.6.11	Ericsson	Approved
GP-023090	CR 51.010-1-1209 Sec 52.5.5.* - Modifications to specific message contents	Setcom	Withdrawn
GP-023091	CR 51.010-1-1210 42.1.2.2.6 new testcase added and testcase 42.1.2.1.8.2.3 deleted	Setcom	Revised
GP-023276	CR 51.010-1-1210 rev 1 42.1.2.2.6 new testcase added and testcase 42.1.2.1.8.2.3 deleted	Setcom	Approved
GP-023095	CR 51.010-1-1211 Extended Uplink TBF Mode (New Test Cases)	Ericsson	Revised
GP-023343	CR 51.010-1-1211 rev 1 Extended Uplink TBF Mode (New Test Cases)	Ericsson	Revised

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GP-023416	CR 51.010-1-1211 rev 2 Extended Uplink TBF Mode (New Test Cases)	Ericsson	Approved
GP-023143	CR 51.010-1-1212 Clause 70.3.3 - EOTD MO_LR Autonomous Location	Motorola	Approved
GP-023144	CR 51.010-1-1213 Clause 70.3.4 - EOTD MO_LR Positioning Measurement	Motorola	Revised
GP-023389	CR 51.010-1-1213 rev 1 Clause 70.3.4 - EOTD MO_LR Positioning Measurement	Motorola	Approved
GP-023146	CR 51.010-1-1214 Correction to test cases 42.3.1.2.2 and 42.3.1.2.3	Motorola	Revised
GP-023329	CR 51.010-1-1214 rev 1 Correction to test cases 42.3.1.2.2 and 42.3.1.2.3	Motorola	Approved
GP-023151	CR 51.010-1-1215 Error in test case 15.6	Ericsson	Revised
GP-023284	CR 51.010-1-1215 rev 1 Error in test case 15.6	Ericsson	Withdrawn
GP-023155	CR 51.010-1-1216 TC 52.3.1.1.4 Use of Packet Uplink Assignment instead of Packet Timeslot reconfigure	Setcom	Revised
GP-023339	CR 51.010-1-1216 rev 1 TC 52.3.1.1.4 Use of Packet Uplink Assignment instead of Packet Timeslot reconfigure	Setcom	Approved
GP-023156	CR 51.010-1-1217 TC 53.1.1.14 Addition of optional steps to cater to MS reaction time	Setcom	Revised
GP-023328	CR 51.010-1-1217 rev 1 TC 53.1.1.14 Addition of optional steps to cater to MS reaction time	Setcom	Approved
GP-023157	CR 51.010-1-1218 TC 51.1.4.2 Modification to test steps 5, 6 and 7 to align with test purpose	Setcom	Approved
GP-023167	CR 51.010-1-1219 Clause 44.2.1.1.10 GPRS attach / rejected / GPRS services not allowed in this PLMN	Motorola	Revised
GP-023350	CR 51.010-1-1219 rev 1 Clause 44.2.1.1.10 GPRS attach / rejected / GPRS services not allowed in this PLMN	Motorola	Approved
GP-023168	CR 51.010-1-1220 Clause 44.2.2.2.6 GPRS detach/ rejected / GPRS services not allowed in this PLMN	Motorola	Revised
GP-023351	CR 51.010-1-1220 rev 1 Clause 44.2.2.2.6 GPRS detach/ rejected / GPRS services not allowed in this PLMN	Motorola	Approved
GP-023173	CR 51.010-1-1221 Section 20.22 GPRS Cell Selection and Reselection	Rohde & Schwarz	Approved
GP-023174	CR 51.010-1-1222 Section 14.16.1 Minimum Input level for Reference Performance	Rohde & Schwarz	Approved
GP-023175	CR 51.010-1-1223 44.2.3.2.5 Combined routing area updating/rejected/roaming not allowed in this location area	Ericsson	Revised
GP-023222	CR 51.010-1-1223 rev 1 44.2.3.2.5 Combined routing area updating/rejected/roaming not allowed in this location area	Ericsson	Revised
GP-023383	CR 51.010-1-1223 rev 2 44.2.3.2.5 Combined routing area updating/rejected/roaming not allowed in this location area	Ericsson	Approved
GP-023187	CR 51.010-1-1225 Removal of redundant EGPRS USF-sensitivity tests	Nokia	Approved
GP-023188	CR 51.010-1-1226 Clarification on test procedure for GPRS USF-sensitivity	Nokia	Approved
GP-023189	CR 51.010-1-1227 Addition of missing parameters for DL Power Control and clarification on the test requirement in 14.18.1	Nokia	Approved
GP-023190	CR 51.010-1-1228 Clarification on required power level in 13.16.3, step b)	Nokia	Revised
GP-023333	CR 51.010-1-1228 rev 1 Clarification on required power level in 13.16.3, step b)	Nokia	Approved
GP-023191	CR 51.010-1-1229 Clarification on required power level in 13.17.4, step b)	Nokia	Approved
GP-023192	CR 51.010-1-1230 Editorial correction on default input level in sect.40	Nokia	Approved
GP-023203	CR 51.010-1-1231 Removal of DTM from list of missing tests.	Vodafone Group	Approved
GP-023204	CR 51.010-1-1232 Inclusion of the PACKET TIMESLOT RECONFIGURE message in section 40	Vodafone Group	Approved

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GP-023218	CR 51.010-1-1233 Section 40: Wrong HCS PRIORITY CLASS value for the near cell in PSI 3 and 3bis messages	Rohde & Schwarz	Revised
GP-023384	CR 51.010-1-1233 rev 1 Section 40: Wrong HCS PRIORITY CLASS value for the near cell in PSI 3 and 3bis messages	Rohde & Schwarz	Approved
GP-023176	CR 51.010-1-1234 44.2.3.2.4 Combined routing area updating / rejected / PLMN not allowed	Ericsson	Approved
GP-023233	CR 51.010-1-1235 Changing the wait time in steps 5, 10 and 15 of Expected Sequence for clause 51.1.1.4 – RR/Paging/ on PCCCH for EGPRS service/paging reorganisation successful	Nokia	Approved
GP-023234	CR 51.010-1-1236 Changing the wait time in steps 5, 10 and 15 of Expected Sequence for clause 41.1.1.4 – RR/Paging/ on PCCCH for GPRS service/paging reorganisation successful	Nokia	Approved
GP-023221	CR 51.010-1-1237 clause 40.4.3.17 Inter-SGSN RAU Macro	Ericsson	Approved
GP-022849	CR 51.010-2-082 Update of applicability table	Setcom	Approved
GP-022947	CR 51.010-2-083 Addition of WG4 DTM Conformance Tests to the Applicability table (Rel-5)	Vodafone Group	Revised
GP-023335	CR 51.010-2-083 rev 1 Addition of WG4 DTM Conformance Tests to the Applicability table (Rel-5)	Vodafone Group	Approved
GP-022948	CR 51.010-2-084 Addition of WG5 DTM Conformance Tests to the Applicability table (Rel-5)	Vodafone Group	Approved
GP-022949	CR 51.010-2-085 Further DTM Additions to the PICS proforma tables (Rel-5)	Vodafone Group	Withdrawn
GP-023027	CR 51.010-2-086 Applicability Table Update"	Qualcomm	Revised
GP-023388	CR 51.010-2-086 rev 1 Applicability Table Update"	Qualcomm	Approved
GP-023033	CR 51.010-2-087 Changed the name of clause 51.2.2.3.	Nokia	Approved
GP-023047	CR 51.010-2-088 Change of Applicability for test case 44.2.1.1.8 - GPRS attach/abnormal cases/power off	Nokia	Approved
GP-023069	CR 51.010-2-089 Add AMR half rate optional applicability	Racal Instruments	Revised
GP-023295	CR 51.010-2-089 rev 1 Add AMR half rate optional applicability	Racal Instruments	Approved
GP-023085	CR 51.010-2-091 Introduction of UTRAN Classmark Change test cases in section 26.6.11	Ericsson	Revised
GP-023385	CR 51.010-2-091 rev 1 Introduction of UTRAN Classmark Change test cases in section 26.6.11	Ericsson	Approved
GP-023096	CR 51.010-2-092 Addition of Extended Uplink TBF Mode test cases to matrix	Ericsson	Approved
GP-023142	CR 51.010-2-093 Applicability table for new GMM test cases	Motorola	Approved
GP-023145	CR 51.010-2-094 Applicability table for new EOTD Mobile Originated test cases	Motorola	Revised
GP-023390	CR 51.010-2-094 rev 1 Applicability table for new EOTD Mobile Originated test cases	Motorola	Revised
GP-023393	CR 51.010-2-094 rev 2 Applicability table for new EOTD Mobile Originated test cases	Motorola	Approved
GP-023208	CR 51.010-2-095 Error in Conditional Expression C53 in Table B.1	NEC	Revised
GP-023334	CR 51.010-2-095 rev 1 Error in Conditional Expression C53 in Table B.1	NEC	Approved
GP-023220	CR 51.010-2-096 Alignment of test cases for SIM Toolkit evolution to R99	GEMPLUS	Revised
GP-023294	CR 51.010-2-096 rev 1 Alignment of test cases for SIM Toolkit evolution to R99	GEMPLUS	Revised
GP-023392	CR 51.010-2-096 rev 2 Alignment of test cases for SIM Toolkit evolution to R99	GEMPLUS	Approved
GP-023045	CR 51.010-2-097 Addition of 4 new EGPRS test cases.	Nokia	Revised
GP-023338	CR 51.010-2-097 rev 1 Addition of 4 new EGPRS test cases.	Nokia	Approved
GP-023082	CR 51.010-2-098 Introduction of NACC test cases in section 42.4.5	Ericsson	Postponed
GP-022954	CR 51.021-004 Introduction of tests and requirements for AMR and WB-AMR on 8-PSK modulated channels (Rel-5)	Ericsson	Revised
GP-023412	CR 51.021-004 rev 1 Introduction of tests and requirements for AMR and WB-AMR on 8-PSK modulated channels (Rel-5)	Ericsson	Approved

Tdoc	Title	Source	Status
GP-022955	CR 51.021-005 Introduction of tests and requirements for WB-AMR on GMSK modulated channels (Rel-5)	Ericsson	Revised
GP-023411	CR 51.021-005 rev 1 Introduction of tests and requirements for WB-AMR on GMSK modulated channels (Rel-5)	Ericsson	Approved
GP-022956	CR 51.021-006 Update of references to GERAN and ETSI specifications (Rel-4)	Ericsson	Revised
GP-023407	CR 51.021-006 rev 1 Update of references to GERAN and ETSI specifications (Rel-4)	Ericsson	Approved
GP-022957	CR 51.021-007 Update of references to GERAN and ETSI specifications (Rel-5)	Ericsson	Revised
GP-023408	CR 51.021-007 rev 1 Update of references to GERAN and ETSI specifications (Rel-5)	Ericsson	Approved
GP-022958	CR 51.021-008 Introduction of GSM 700 (Rel-4)	Ericsson	Revised
GP-023409	CR 51.021-008 rev 1 Introduction of GSM 700 (Rel-4)	Ericsson	Approved
GP-022959	CR 51.021-009 Introduction of GSM 700 (Rel-5)	Ericsson	Revised
GP-023410	CR 51.021-009 rev 1 Introduction of GSM 700 (Rel-5)	Ericsson	Approved
GP-022960	CR 51.021-010 Correction of requirements for PDTCH/CS-4 C/Ic (Rel-4)	Ericsson	Approved
GP-022961	CR 51.021-011 Correction of requirements for PDTCH/CS-4 C/Ic (Rel-5)	Ericsson	Approved
GP-023211	CR 51.021-012 Removal of clause 9.4.4 (Rel 4)	Ericsson, Nokia	Approved
GP-023212	CR 51.021-013 Removal of clause 9.4.4 (Rel 5)	Ericsson, Nokia	Approved