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TSG GERAN

TSG SA#20

# *TSG GERAN Report*

*to*

## *TSG-SA#20*

**TSG-GERAN Chairman  
Niels Peter Skov Andersen  
Motorola**

MT



**Tdoc SP-030321**



# ***TSG GERAN work area (1/2)***



## **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**

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# ***TSG GERAN work area (2/2)***



- **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**

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# 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)**
- **BTS testing and GERAN specific O&M aspects**

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# ***Organisation of TSG GERAN*** ***(3/4)***



## **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*** ***(4/4)***



## **TSG GERAN WG3 – Terminal Testing Aspects**

**Convenor: Ilya Gonorovsky**

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

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# ***R99 mobiles in R97 networks***



- **TSG GERAN have been made aware of problems with R99 mobiles in some pre-R99 networks**
  - R99 mobiles might be rejected due to revision level indication in Classmark
  - R99 extensions to GPRS protocols might cause network to reject messages
- **Specifications have in the past been updated to clarify behaviour.**
- **LS sent to GSMA asking for action to help quick deployment of network "corrections"**
- **Positive answer received – Will be discussed at TSG GERAN#15**

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# Pre-Release 5



- **Change between Dynamic and Ext Dynamic Allocation**
  - Restriction removed (Rel-99)
- **Modulation based multislots class support (Rel-4)**
  - Use of GPRS multislots class for EGPRS GMSK
- **Mapping of PFCs onto LLC SAPs**
  - Clarification of the rules to multiplex onto same SAPI
- **Corrections to EDGE and DTM**
- **Correction to... Phase 2!**
  - Mathematical expressions due to file format change

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# LCS



- **No significant changes/corrections for LCS R98→**
- **LCS support for GPRS completed and stable**
- **Discussions ongoing regarding the potential for improvement of the LCS performance**
- **Work on U-TDOA has started**
  - **CR to stage 2 endorsed**
    - **RR procedures that affect/reset the location procedure**
  - **Two stage 3 CRs agreed (48.071 and 49.031)**
  - **Completion timescales for CS changed to Nov 2003\***
  - **PS side has not started**

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# *Support for Codecs*



- **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**
- **CR to 44.014: Defining test loop for AMR-NB has been agreed for Release 5 (Can be implemented in mobiles of earlier release but first required from Release 5)**

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# GERAN Rel 5



- **Early UE handling**

- **‘Basic CR’ agreed**

- New cause added to Handover Request Reject → BSC does not attempt further handovers to UMTS
    - Old BSS tells new BSS at external handover

- **UESBI on the A interface**

- To discriminate different implementations of measurement reporting
    - Left open for this meeting

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# ***GERAN Iu-mode / Rel 5***



- **Iu mode RRC**
  - Number of corrections up from previous meetings
  - General review of sections/procedures
- **Iu mode RLC/MAC**
  - Number of corrections up; typically small corrections
- **CRs for alignment to 25.331**
  - RAN2 have approved “non-essential CRs” to 25.331 v5.x.y
  - General rule: non-essential CRs to 44.118 should go to Rel-6
  - This would not align the functionality in Rel-5 (25.331/44.118)

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# ***GERAN A/Gb enhancements***



- **Work started (Work items agreed) on**
  - Multiple TBF
  - Streaming
- **Agreement on a way forward for conversational class QoS including the following steps**
  - Report on concept and impact
  - Stage 2 work
  - Stage 3 work

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# Release 6 (1/4)



## Multiple TBFs for A/Gb mode

- **Timers for multiple TBF establishment agreed**
- **Network and MS indications of support**
  - Broadcast and classmark (1 bit), respectively
- **Agreed to use legacy messages (with PFI) for assignment/reconfiguration**
- **Areas to progress:**
  - Partial relocation: include PFI to keep TBF alive; else drop it
  - Clarifications in the relationship between TBF and PFC
  - Message definition: many synergies with *lu mode*
- **Open issues:**
  - Allocation of multiple TBFs on the (P)AGCH
  - Multiple TBF Assignment in/for DTM
- **Making good progress for completion in August**

# Release 6 (2/4)



## Streaming

- **Status of discussions on QoS parameters**
  - Residual BER: ok
  - SDU error ratio:  $1e-3$  ( $1e-4$  not possible)
  - Transfer delay
    - Likely that a transfer delay of 2 s can be met
    - Still some discrepancies on the simulations results
      - Possibly due to differences in the video traffic model (e.g. packet size)

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# Release 6 (2/4)



## Flexible Layer 1

- Performance simulations being evaluated
- FLO architecture for A/Gb mode discussed
- Proposals for Coded Transport Format Combinations
- lu mode: no more work on security is foreseen (90%)
- Work for 'CS A/Gb' has not started
- Work on 'PS A/Gb' continues under conversational WI
  - Strong links between FLO and conversational
  - Stable parts will be incorporated to the FLO TR (45.902)

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# Release 6 (3/4)



## MBMS

- One dedicated workshop with focus on radio bearers has been held
- Estimated throughput for 1% IP-frame error rate for point-to-multipoint ~ 4.5 kbit/s per timeslot (C/I = 9 dB - IP-frame size 500 bytes)
- Change from ptp to ptm and vice versa during session is causes significant complexity
- Progress on radio bearer key to progress on other parts

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# Release 6 (4/4)



- **Work progressing on Single Antenna Interference Cancellation (SAIC) feasibility study**
  - **Already significant amount of contribution**
  - **Simulation results based on the current assumptions shows gains in the order of 1 – 2 dB**
  - **Current focus GMSK, CS-domain and synchronous networks.**
- **GSM T frequency bands definition completed**

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# Testing (1/2)



- **Main focus has been on testing of:**
  - Radio & Layer 1
  - GPRS – Ongoing analysis of needs for update of R97 test cases to align with R99 core specifications
  - EDGE
  - Selection/Reselection & Handover (2.5G, 3G)
  - LCS
  - Tracking of core specification changes
  - AMR (Narrow band)
  - DTM – Tests completed

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# Testing (2/2)



- **Work has started on including (align) the test cases which are being used by PCTRB in the US into TS 51.010**
- **New areas of testing**
  - RLC/MAC (lu interface CS and PS domain)
- **The following items have no progress due to lack of input:**
  - Enhanced power control
  - Wideband AMR
  - AMR 8 PSK HR
  - Selection/Reselections (GERAN I<sub>u</sub>-mode >UTRAN)
  - Handover (GERAN I<sub>u</sub>-mode >UTRAN PS).

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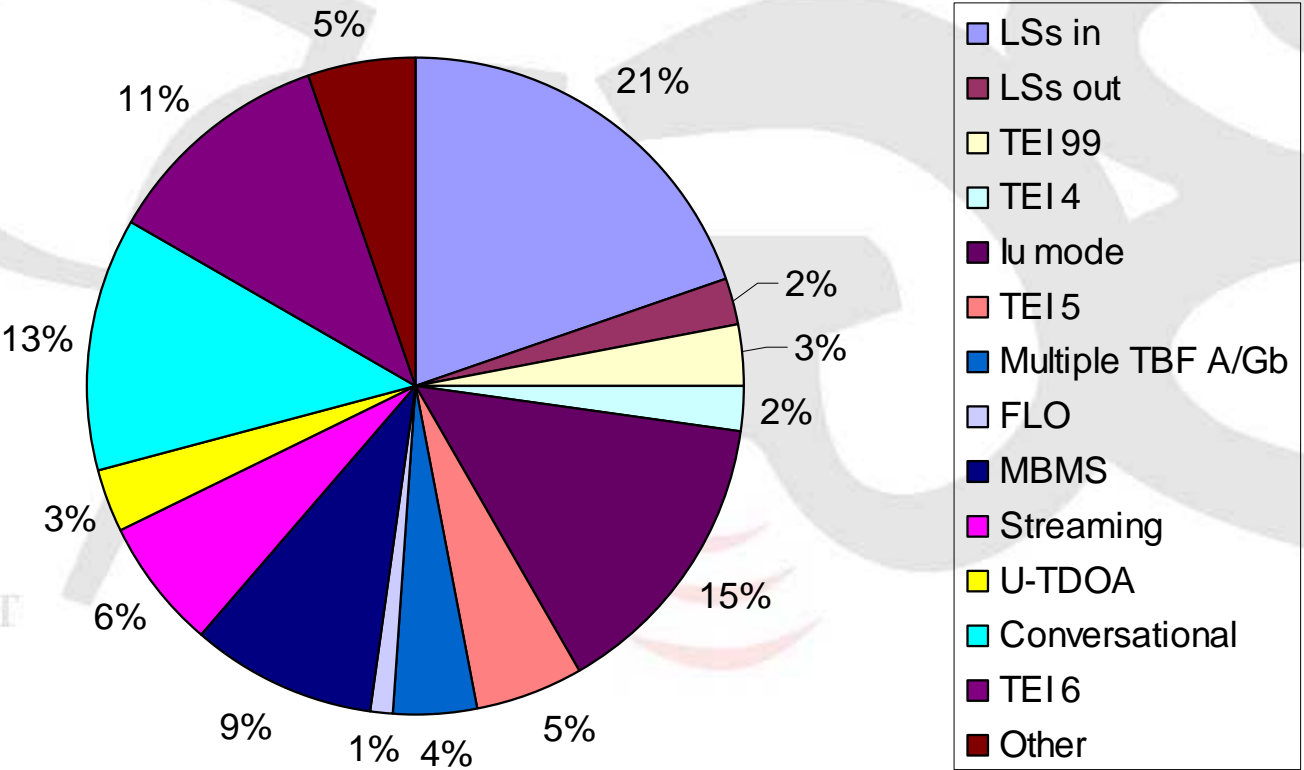
# Document distribution at TSG GERAN WG2 #14bis



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Documents for each WI



## The LS disease

# ***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  
 $ab.cd \Rightarrow (40+ab).0cd$   
e.g  
 $05.08 \Rightarrow 45.008$

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# ***Future TSG GERAN Plenary meetings***



<b>TSG GERAN #15</b>	<b>24-26 June 2003</b>	<b>Fort Lauderdale, US</b>
<b>TSG GERAN #16</b>	<b>25-29 August 2003</b>	<b>New York, US</b>
<b>TSG GERAN #17</b>	<b>17-21 November 2003</b>	<b>Hungary</b>
<b>TSG GERAN #18</b>	<b>2-6 February 2004</b>	
<b>TSG GERAN #19</b>	<b>19-23 April 2004</b>	
<b>TSG GERAN #20</b>	<b>21-25 June 2004</b>	
<b>TSG GERAN #21</b>	<b>23-27 August 2004</b>	
<b>TSG GERAN #22</b>	<b>8-12 November 2004</b>	

*Extract of GERAN work programme and list of CR handled at TSG GERAN #14 are attached to this report*



## Workplan for TSG GERAN as agreed at TSG GERAN #14

### Open Work item status and approval time frame

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

Feature	Building block	Work task	Level of completion	Start Date	Date of completion	Status
GERAN improvements 2 (GEIMP2) GP-012812	Gb enhancements GP-000436	Intra BSC NACC <ul style="list-style-type: none"> <li>• Concept</li> <li>• Changes in 03.64</li> <li>• Changes in 04.60</li> <li>• Changes in 44.008</li> </ul>		Nov 2000	June 2001	Ready for R4. Closed
	MS conformance test for Intra BSC NACC GP-012811	<ul style="list-style-type: none"> <li>• Changes in 51.010</li> </ul>	85%	Nov 2001	November 2003	Started
Alignment of 3G functional split and lu (GER3GAL) GP-021256	GERAN user / control plane (GER3GAL-GUCOPL) GP-021255	Alignment with UMTS bearer concept <ul style="list-style-type: none"> <li>• Stage 2</li> </ul>		Aug 2000	Jun 2001	Ready for R5.
		<ul style="list-style-type: none"> <li>• Adoption of the UTRAN PDCP</li> </ul>			Dec 2001	
		<ul style="list-style-type: none"> <li>• Development of RLC / MAC</li> </ul>			Aug 2002	
		<ul style="list-style-type: none"> <li>• Development of GERAN RRC</li> </ul>			Jun 2002	
		<ul style="list-style-type: none"> <li>• Ciphering and integrity protection concept paper</li> </ul>			Apr 2002	
		<ul style="list-style-type: none"> <li>• Multiple TBF or equivalent Concept paper</li> </ul>			Feb 2002	
		<ul style="list-style-type: none"> <li>• Paging concept</li> </ul>			Apr 2002	
		<ul style="list-style-type: none"> <li>• Dedicated physical subchannels. Includes traffic and control channels</li> </ul>			Nov 2001	
		<ul style="list-style-type: none"> <li>• lu support and broadcast concept</li> </ul>			Apr 2002	
		<ul style="list-style-type: none"> <li>• Impact of using RLC instead of LAPDm concept</li> </ul>			Feb 2002	
		<ul style="list-style-type: none"> <li>• Contention resolution, mobile-station identity, and access concept</li> </ul>			Nov 2001	
		<ul style="list-style-type: none"> <li>• PDCP concept</li> </ul>			Apr 2002	
		<ul style="list-style-type: none"> <li>• Downlink delayed TBF release</li> </ul>			Aug 2002	
		<ul style="list-style-type: none"> <li>• Add transparent RLC Concept</li> </ul>			Feb 2002	
<ul style="list-style-type: none"> <li>• Handover concept</li> </ul>		Feb 2002				

		<ul style="list-style-type: none"> <li>Physical layer alignment with UMTS bearer concept</li> <li>Control channels in 45.003</li> <li>Receiver performance in 45.005 for PDTCH/TCH and control channels</li> </ul>			Jun 2001	
	Iur-g interface (GER3GAL-Iur-g) GP-010428	Inter BSS interface Identification of requirements Stage 2 Adoption of relevant parts from Iur 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 Iur 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 <ul style="list-style-type: none"> <li>Architecture for A, Iur-CS and Iur-PS</li> <li>Handover</li> <li>RTP payload</li> </ul>		Nov 2000	Nov 2001	Ready for R5. Closed
	GERAN MS Conformance test for GERAN interface evolution GP-021253	<ul style="list-style-type: none"> <li>MS test</li> </ul>	0%	June 2003	April 2004	Not started
	GERAN BTS Conformance test for GERAN interface evolution GP-021254	<ul style="list-style-type: none"> <li>BTS test</li> </ul>	0%	June 2003	April 2004	Not started

<p><i>Enhancement of Broadcast and Introduction of Multicast (in responsibility of TSG SA1)</i></p>	<p>Support of the Multimedia Broadcast Multicast Service (MBMS) in GERAN (MBMS-GERAN) <a href="#">GP-022566</a></p>	<ul style="list-style-type: none"> <li>• Impact on the logical and physical channels</li> <li>• Simultaneous support of MBMS services</li> <li>• Simultaneous support of MBMS and non-MBMS services</li> <li>• Resynchronisation at cell change</li> <li>• Decision making process between point-to-point or point-to-multipoint configurations</li> <li>• MBMS channel allocation procedures to multiple MSs</li> <li>• Changes to the Gb interface</li> <li>• GERAN-specific changes to the lu-ps interface</li> <li>• Interaction between MBMS and lu-flex</li> <li>• Security aspects</li> <li>• MS conformance tests</li> </ul>	<p>10%</p>	<p>August 2002</p>	<p>November 2003</p>	<p>Started</p>
<p>Multiple TBF in A/Gb mode (MULTBF) <a href="#">GP-021263</a></p>	<p>Multiple TBF in A/Gb mode (MULTBF-Agbmode) <a href="#">GP-021263</a></p>	<ul style="list-style-type: none"> <li>• Multiple TBF Concept paper</li> <li>• Multiple TBF Stage 2 (43.064) CRs</li> <li>• Multiple TBF Stage 3 (44.060) CRs</li> </ul>	<p>65%</p>	<p>April 2002</p>	<p>August 2003</p>	<p>Started</p>
	<p>Multiple TBF in A/Gb mode – MS testing <a href="#">GP-022098</a></p>	<ul style="list-style-type: none"> <li>• MS conformance tests</li> </ul>	<p>0%</p>		<p>November 2003</p>	<p>Not Started</p>
<p>Seamless support of streaming services in A/Gb mode (SSStrea) <a href="#">GP-022561</a></p>	<p>Identification of requirements for streaming <a href="#">GP-022564</a></p>	<ul style="list-style-type: none"> <li>• Requirements</li> </ul>	<p>90%</p>	<p>August 2002</p>	<p>June 2003</p>	<p>Started</p>
	<p>Performance study of cell change mechanisms <a href="#">GP-022562</a></p>	<ul style="list-style-type: none"> <li>• Performance of NACC</li> <li>• Performance of cell change in DTM for the PS domain</li> <li>• Handover</li> </ul>	<p>90%</p>	<p>August 2002</p>	<p>June 2003</p>	<p>Started</p>
	<p>Reduction of service interruption times and packet loss during mobility procedures <a href="#">GP-022563</a></p>	<ul style="list-style-type: none"> <li>• Optimisations of existing mechanisms/procedures</li> <li>• Inter-system NACC</li> <li>• PS Handover (within GERAN and between GERAN and UTRAN)</li> <li>• Dependency to other features</li> </ul>	<p>50%</p>	<p>August 2002</p>	<p>June 2003</p>	<p>Started</p>
	<p>MS conformance testing GP-023424</p>	<ul style="list-style-type: none"> <li>• MS conformance tests</li> </ul>	<p>0%</p>	<p>August 2003</p>	<p>December 2003</p>	<p>Not Started</p>

Flexible Layer One for GERAN (FLOGER)  <a href="#">GP-021018</a>	Realisation of a Flexible Layer One (FLOGER-Real)  <a href="#">GP-021019</a>	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	40%	April 2002	June 2003	Started
	Signalling and protocol support for a Flexible Layer One (FLOGER-SigPro)  <a href="#">GP-021020</a>	Modifications to RLC/MAC in 44.060 and 44.160 Modifications to RRC in 44.118 and 44.018	30%	April 2002	June 2003	Started
	Security for a Flexible Layer One (FLOGER-SecFLO)  <a href="#">GP-021021</a>	Ciphering in 44.160,44.118, 44.060 and 44.018	5%	April 2002	Jan 2003	Started
	GERAN MS Conformance test for the Flexible Layer One (FLOGER-Msconf)  <a href="#">GP-021022</a>	MS Test in 51.010	0%	August 2003	November 2003	Not Started
	GERAN BTS Conformance test for the Flexible Layer One (FLOGER-BTSconf)  <a href="#">GP-021023</a>	BTS Test in 51.021	0%	August 2003	November 2003	Not Started
Addition of frequency bands to GSM (TAPS)  <a href="#">GP-022072</a>	Addition of frequency bands to GSM – Changes to core specs (TAPS-Specs)  <a href="#">GP-022073</a>	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	100%	June 2002	Dec 2002	Redy for Rel-6
	Addition of frequency bands to GSM – Changes for conformance tests (TAPS-Conf)  <a href="#">GP-022074</a>	51.010-1 Add testing	0%		August 2003	Not Started
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	<ul style="list-style-type: none"> <li>MS test</li> </ul>	0%		November 2003	Not started	
	GERAN BTS Conformance test for Enhanced Power Control GP-012751	<ul style="list-style-type: none"> <li>BTS test</li> </ul>	0%		November 2003	Not started	
8PSK AMR HR (8PSK-AH) GP-012752	Definition of channel coding, performance requirements and signaling support GP-012753	<ul style="list-style-type: none"> <li>Concept</li> <li>Changes to 44.018</li> <li>Changes to 45.001</li> <li>Changes to 45.002</li> <li>Changes to 45.003</li> <li>Changes to 45.005</li> <li>Changes to 24.008</li> <li>Changes to 48.058</li> </ul>		Dec 2001	Jun 2002	Ready for R5. Closed	
	GERAN MS Conformance test for 8PSK HR GP-012754	<ul style="list-style-type: none"> <li>MS test</li> </ul>	0%		November 2003		
	GERAN BTS Conformance test for 8PSK HR GP-012755	<ul style="list-style-type: none"> <li>BTS test</li> </ul>	100%		Dec 2002		
Wideband telephony services (UMTS)	Support of WB AMR in GERAN (GAMRWB) GP-000453	GMSK and 8PSK WB FR / HR support <ul style="list-style-type: none"> <li>Channel coding in 45.003</li> <li>Signalling for A interface</li> <li>Signalling for Iu</li> <li>Link adaptation in 45.009</li> <li>Receiver performance in 45.005</li> </ul>		January 2000	Apr 2002 Nov 2001  Jun 2002	Ready for R5. Closed	
	GERAN MS Conformance test for WB AMR GP-000454	<ul style="list-style-type: none"> <li>MS test</li> </ul>	0%		November 2003		
	GERAN BTS Conformance test for WB AMR GP-000455	<ul style="list-style-type: none"> <li>BTS test</li> </ul>	100%		Dec 2002		Closed
Location service (UMTS)	LCS interoperability aspects to GERAN GP-000456	<ul style="list-style-type: none"> <li>Co-ordinated development of GSM LCS Phase 2 and UMTS LCS, S2 and GERAN</li> </ul>				Ready for R5. Closed	
	Location service for GERAN R4 GP-010932	<ul style="list-style-type: none"> <li>Work for aligning LCS R4 CN and GERAN</li> </ul>					Ready for R4. Closed
	Location Services (LCS) for GERAN in A/Gb Mode GP-011925	<ul style="list-style-type: none"> <li>GERAN LCS Stage Two</li> <li>Gb interface support for LCS</li> <li>L3 protocol support for LCS</li> <li>Stage 3 specifications</li> </ul>			Feb. 2002		Ready for Rel-5. Closed

	Location Services (LCS) for GERAN in Iu Mode GP-011926	<ul style="list-style-type: none"> <li>GERAN LCS stage 2</li> <li>Iu interface support for LCS</li> <li>Iur-g interface support for LCS</li> <li>RRC protocol support for LCS</li> <li>Additional impacts on Broadcast of LCS data on packet channels</li> <li>Stage 3 specifications</li> </ul>			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	<ul style="list-style-type: none"> <li>Develop LCS MS test case work plan (Release 98/99/4)</li> <li>Develop LCS MS test cases</li> </ul>	60%		June 2003	Ongoing
	GERAN BTS Conformance test for LCS (LCS-GERAN-BTSconf) GP-000459	<ul style="list-style-type: none"> <li>Develop LCS BTS test case work plan (Release 99/99/4)</li> <li>Develop LCS BTS test cases</li> </ul>	?%		November 2003	Work has not started
Single Antenna Receiver Interference Cancellation (SAIC) <a href="#">GP-023400</a>	Single Antenna Receiver Interference Cancellation (SAIC)	<ul style="list-style-type: none"> <li>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.</li> <li>Realistic DIR (Dominant-to-rest of Interference Ratio) levels and distributions based on network simulations and measurements.</li> <li>Robustness against different training sequences.</li> <li>Determine method to detect/indicate SAIC capability.</li> </ul>	25%	Nov 2002	November 2003	Ongoing
Uplink TDOA location determination for GSM/GPRS (UTDOA) <a href="#">GP-023316</a>	Addition of U-TDOA in the CS domain	Addition of U-TDOA in the CS domain	25%	November 2002	June 2003	Ongoing
	Addition of U-TDOA in the PS domain	<ul style="list-style-type: none"> <li>Addition of U-TDOA in the PS domain</li> </ul>	0%	November 2002	Nov 2003	Not Started
Support of Conversational Services in A/Gb mode via the PS domain (SCSAGB) <a href="#">GP-030443</a>	Creation of a Technical Report (SCSAGB-TR) <a href="#">GP-030444</a>	<ul style="list-style-type: none"> <li>Technical Report</li> </ul>	5%	Feb 2003	November 2003	Started
	Stage 2 (SCSAGB-Stage2) <a href="#">GP-030445</a>	<ul style="list-style-type: none"> <li>PS handover</li> <li>SNDCP/LLC compression</li> <li>Definition of radio resource management functionality</li> <li>Modifications to FLO</li> <li>Radio channel support</li> </ul>	0%	Nov 2003	April 2004	Not Started
	Radio Channel Support (SCSAGB-RCS) <a href="#">GP-030446</a>	<ul style="list-style-type: none"> <li>Radio channel support for Conversational QoS</li> <li>Introduction of continuous measurement reporting</li> </ul>	0%	Feb 2004	April 2004	Not Started
	Definition of radio resource management functionality (SCSAGB-RRM) <a href="#">GP-030447</a>	<ul style="list-style-type: none"> <li>Addition/modification of radio resource management protocol layer</li> </ul>	0%	Feb 2004	April 2004	Not Started

	PS Handover (SCSAGB-PSH) <a href="#">GP-030448</a>	<ul style="list-style-type: none"> <li>BSSGP procedures for change of BSC</li> <li>Bi-Casting</li> <li>Context transfer</li> </ul>	0%	Feb 2004	April 2004	Not Started
	Modifications to FLO (SCSAGB-FLO) <a href="#">GP-030449</a>	<ul style="list-style-type: none"> <li>FLO specific impacts due to conversational QoS</li> </ul>	0%	Feb 2004	April 2004	Not Started

Closed work items
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## 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 lups	<ul style="list-style-type: none"> <li>Identification of GERAN requirements on lups</li> <li>Update of specifications</li> </ul>			Nov 2001 Mar 2002	Ready for R5. Closed
GERAN/UTRAN interface evolution 2 GP-010417	Evolution of lucs GP-000430	<ul style="list-style-type: none"> <li>Identification of GERAN requirements on lucs</li> <li>Update of specifications</li> </ul>			Apr 2002 Jun 2002	Ready for R5. Closed
Low chip rate TDD option (UTRAN)	Low chiprate TDD interworking with GERAN GP-000432	<ul style="list-style-type: none"> <li>Handover and Cell Selection / Reselection to UTRA 1.28Mcps TDD</li> </ul>				Ready for R4. Closed
GERAN improvements 1 GP-000433	Gb over IP GP-000434	IP-fication of Gb <ul style="list-style-type: none"> <li>Concept</li> <li>Changes to 08.16, 08.18</li> </ul>				Ready for R4. Closed
GERAN improvements 3 GP-010909	Evolution of the transport for A GP-010910	<ul style="list-style-type: none"> <li>Definition of a new A/Ater Interface Transport Layer option based on the lu Interface Transport Layer</li> <li>Adaptation of the Layer 3 BSSMAP procedures as required.</li> </ul>	0%		Dec 2002	Terminated. Not standardised
GERAN Improvements 4 GP-010363	Gb enhancements 2 GP-010363	Stage 2  Stage 3 (changes in 44.060) <ul style="list-style-type: none"> <li>Definition of enhanced countdown procedure</li> <li>Definition of enhanced TBF release procedure</li> </ul>				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 ) <ul style="list-style-type: none"> <li>48.018</li> </ul>			Apr 2002	Ready for R5. Closed

	Modification of core network protocols for GERAN Inter BSC NACC for Gb interface GP-011877	<p>Stage 2</p> <ul style="list-style-type: none"> <li>• Concept</li> <li>• 23.060 change <ul style="list-style-type: none"> <li>– Definition of Inter BSC NACC</li> </ul> </li> </ul> <p>Stage 3 (changes to )</p> <ul style="list-style-type: none"> <li>• 29.060</li> </ul>			<p>Nov 2001</p> <p>Apr 2002</p>	
GERAN support for IP multimedia GP-010420	GERAN Header adaptation GP-010421	<p>Header adaptation:</p> <ul style="list-style-type: none"> <li>• Definition of compression for PDCP protocol</li> <li>• Conceptual description in stage 2</li> <li>• Necessary changes on stage 3</li> </ul>	100%		<p>Sept 2000</p> <p>Oct 2001</p> <p>Dec 2002</p>	Ready for Rel-5. Closed
	GERAN Radio access bearer design for IP multimedia GP-010422	<p>MuM control signalling for conversational multimedia services.</p> <ul style="list-style-type: none"> <li>• Identification of requirements</li> <li>• Necessary modifications due to SIP</li> </ul>	?%		<p>Feb 2002</p> <p>Dec 2002</p>	Terminated. Not standardised
	GERAN MS Conformance test for support of IP multimedia GP-010424	<ul style="list-style-type: none"> <li>• MS test</li> </ul>	0%		Dec 2002	Terminated. Not standardised
	GERAN BTS Conformance test for support of IP multimedia GP-010425	<ul style="list-style-type: none"> <li>• BTS test</li> </ul>	0%		Dec 2002	Terminated. Not standardised
	Flow control supporting an MS with multiple data flows with different QoS over the Gb interface GP-021767	<p>Update of stage 2 specifications</p> <ul style="list-style-type: none"> <li>• Concept document 23.060 (changes to) <ul style="list-style-type: none"> <li>– Flow Control</li> </ul> </li> </ul> <p>Modification of BSSGP protocol GP-021508</p>	<p>Stage 3 (changes to )</p> <ul style="list-style-type: none"> <li>• 48.018</li> </ul>			<p>June 2002</p> <p>June 2002</p>
GERAN enhancements for streaming services 1 GP-010430	GERAN enhancements for streaming services 1 GP-010430	<ul style="list-style-type: none"> <li>• Concept</li> <li>• RLC protocol enhancement (SDU Discard)</li> </ul>			<p>Oct 2001</p> <p>Nov 2001????</p>	Ready for R5. Closed
GERAN enhancements for streaming services 2 GP-010429	GERAN enhancements for streaming services 2 GP-010429	<p>Usage of ECSD</p> <p>Stage 2</p> <p>Stage 3</p> <ul style="list-style-type: none"> <li>• RLC PDU formats</li> <li>• MAC header</li> </ul>			<p>Jun 2001</p> <p>Jun 2002</p>	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	<p>Stage 2 (changes to )</p> <ul style="list-style-type: none"> <li>• 43.051 Introduction of support for IDNNS in GERAN lu mode</li> </ul> <p>Stage 3 (changes to )</p> <ul style="list-style-type: none"> <li>• 48.016 Use of Gb interface concepts when a network applies IDNNS</li> <li>• 48.018 Include MSC/VLR identity in CS IMSI paging</li> </ul>			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 <ul style="list-style-type: none"> <li>• Stable RT handover report 25.936 including header removal</li> <li>• Update of stage 2</li> <li>• Update of relevant stage 3 specs</li> </ul>			Nov 2001	Closed
Uplink TDOA feasibility study GP-012794	Uplink TDOA feasibility study GP-012794	<ul style="list-style-type: none"> <li>• Performing of a feasibility study</li> </ul>			Jun 2002	Closed.
700 MHz spectrum support GP-000449	GERAN support for the 700 MHz band	<ul style="list-style-type: none"> <li>• Signaling support</li> <li>• Physical layer definitions</li> <li>• Receiver performance and RF budget</li> </ul>				Ready for R4. Closed
	GERAN MS Conformance test for 700 MHz band GP-000451	<ul style="list-style-type: none"> <li>• MS test</li> </ul>			Jun 2001	Closed
	GERAN BTS Conformance test for GERAN interface evolution  GP-000452	<ul style="list-style-type: none"> <li>• BTS test</li> </ul>	100%		Dec 2002	Closed
Enhanced A/Gb feasibility study <a href="#">GP-022565</a>	Enhanced A/Gb feasibility study <a href="#">GP-022565</a>	<ul style="list-style-type: none"> <li>• Requirements for the support of conversational services</li> <li>• Identification of the different building blocks for the provision of conversational services on the existing A/Gb protocol stack</li> <li>• Outline of impact and feasibility of these building blocks and their different solutions</li> <li>• Impact on 3GPP architecture and requirement to co-ordinate with other TSGs (CN, SA)</li> <li>• Standardisation effort</li> <li>• Dependency to other features</li> </ul>	100%		Nov 2002	Closed at GERAN #13
MS Conformance Testing of Dual Transfer Mode <a href="#">GP-023236</a>	MS Conformance Testing of Dual Transfer Mode	<ul style="list-style-type: none"> <li>• MS Conformance Testing of Dual Transfer Mode</li> </ul>	100%		Feb 2003	Closed at GERAN #14

**3GPP TSG GERAN  
Meeting no 14  
München, Germany  
7 – 11 April 2003**

**Status of Change Requests presented to TSG GERAN #14**

Tdoc	Title	Source	Status
GP-030818	CR 03.64-A086 Padding for MCS-8 retransmissions (R99)	Nokia	Revised
GP-030980	CR 03.64-A086 rev 1 Padding for MCS-3 retransmissions (R99)	Nokia	Approved
GP-030650	CR 04.18-A273 Corrections and Clarifications on the Usage of Parameters for Measurements and Reporting (R99)	Siemens	Rejected
GP-030735	CR 04.18-A274 DL TBF assignment fallback (R99)	Nokia	Revised
GP-030930	CR 04.18-A274 rev 1 DL TBF assignment fallback (R99)	Nokia	Postponed
GP-030688	CR 04.60-B120 Shift between dynamic and extended dynamic allocation (R99)	Ericsson	Revised
GP-030924	CR 04.60-B120 rev 1 Shift between dynamic and extended dynamic allocation (R99)	Ericsson	Approved
GP-030751	CR 04.60-B121 Clarification on continuous TA procedure (R99)	Siemens AG	Withdrawn
GP-030876	CR 05.01-A035 MCS-3 padding for MCS-8 retransmission (R99)	Nortel Networks	Revised
GP-030983	CR 05.01-A035 rev 1 MCS-3 padding for MCS-8 retransmission (R99)	Nortel Networks	Approved
GP-030508	CR 05.02-201 Mapping of the PDTCH/D on PCCCH in case EGPRS (R99)	Siemens AG	Rejected
GP-030898	CR 05.02-A202 Correction to Extended Dynamic Allocation operation (R99)	Panasonic	Postponed
GP-030756	CR 05.03-A047 Padding for MCS-8 Retransmissions (R99)	Nokia	Approved
GP-030864	CR 05.05-A216 Correction of transmitted power level versus time (R99)	Nokia	Approved
GP-030747	CR 05.08-A366 Use of unbiased variance in the computation of CV_BEP (R99)	Nortel, Alcatel	Revised
GP-030976	CR 05.08-A366 rev 1 Use of unbiased variance in the computation of CV_BEP (R99)	Nortel, Alcatel	Approved

Tdoc	Title	Source	Status
GP-030856	CR 05.08-A367 Modification of test channel for MEAN_BEP accuracy for EPGRS (R99)	Ericsson	Postponed
GP-030881	CR 05.10-A079 Clarification on continuous TA procedure (R99)	Siemens AG	Rejected
GP-031014	CR 11.10-4-A011 References to 11.10-1 replaced and references to 11.10-2 removed	GemPlus	Revised
GP-031018	CR 11.10-4-A011 rev 1 References to 11.10-1 replaced and references to 11.10-2 removed	GemPlus	Approved
GP-030826	CR 23.060- xxx Usage of Allocation and Retention Priority in the BSS" (Rel 6)	Alcatel	NA
GP-030741	CR 24.008-xxx Inclusion of the UE power class (FDD and TDD) in MS RAC (R99)	Siemens	NA
GP-030742	CR 24.008-xxx Inclusion of the UE power class (FDD and TDD) in MS RAC (Rel 4)	Siemens	NA
GP-030743	CR 24.008-xxx Inclusion of the UE power class (FDD and TDD) in MS RAC (Rel 5)	Siemens	NA
GP-030744	CR 24.008-xxx Inclusion of the UE power class (FDD and TDD) in MS RAC (Rel 6)	Siemens	NA
GP-030515	CR 24.008-xxx Indication of the MS support of "Modulation based multislots class"	Siemens AG	NA
GP-030822	CR 43.051-052 Correction to SBPSCH and SBPSCH/H (Rel 5)	Nokia	Approved
GP-030891	CR 43.055-005 Corrections for DTM multislots configurations and DTM capability indication (Rel-4)	Nokia	Revised
GP-030972	CR 43.055-005 rev 1 Corrections for DTM multislots configurations and DTM capability indication (Rel-4)	Nokia	Approved
GP-030893	CR 43.055-006 Corrections for DTM multislots configurations and DTM capability indication (Rel-5)	Nokia	Revised
GP-030973	CR 43.055-006 rev 1 Corrections for DTM multislots configurations and DTM capability indication (Rel-5)	Nokia	Approved
GP-030895	CR 43.055-007 Corrections for DTM multislots configurations and DTM capability indication (Rel-6)	Nokia	Revised
GP-030974	CR 43.055-007 rev 1 Corrections for DTM multislots configurations and DTM capability indication (Rel-6)	Nokia	Approved
GP-030570	CR 43.059-037 rev 4 Draft: Inclusion of U-TDOA location method	TruePosition	Revised
GP-030987	CR 43.059-037 rev 5 Draft: Inclusion of U-TDOA location method	TruePosition	Revised

Tdoc	Title	Source	Status
GP-031031	CR 43.059-037 rev 6 Draft: Inclusion of U-TDOA location method	TruePosition	Revised
GP-031063	CR 43.059-037 rev 7 Draft: Inclusion of U-TDOA location method	TruePosition	Revised
GP-031064	CR 43.059-037 rev 8 Draft: Inclusion of U-TDOA location method	TruePosition	Approved
GP-030819	CR 43.064-008 Padding for MCS-8 retransmissions (Rel 4)	Nokia	Revised
GP-030981	CR 43.064-008 rev 1 Padding for MCS-3 retransmissions (Rel 4)	Nokia	Approved
GP-030853	CR 43.064-009 Padding for MCS-8 retransmissions (Rel 5)	Nokia	Revised
GP-030982	CR 43.064-009 rev 1 Padding for MCS-3 retransmissions (Rel 5)	Nokia	Approved
GP-030518	CR 44.018-251 Clarification of <3G Measurement parameters> usage (Rel 6)	Melco Communication Europe	Mobile Withdrawn
GP-030696	CR 44.018-252 Missing SI15 option in PACKET SI STATUS message (Rel-4)	Ericsson	Approved
GP-030697	CR 44.018-253 Missing SI15 option in PACKET SI STATUS message (Rel-5)	Ericsson	Approved
GP-030698	CR 44.018-254 Missing SI15 option in PACKET SI STATUS message (Rel-6)	Ericsson	Approved
GP-030651	CR 44.018-255 Corrections and Clarifications on the Usage of Parameters for Measurements and Reporting (Rel-4)	Siemens	Rejected
GP-030652	CR 44.018-256 Corrections and Clarifications on the Usage of Parameters for Measurements and Reporting (Rel-5)	Siemens	Rejected
GP-030653	CR 44.018-257 Corrections and Clarifications on the Usage of Parameters for Measurements and Reporting (Rel-6)	Siemens	Approved
GP-030766	CR 44.018-258 Cipherring mode indication in handover command when handover from GERAN lu occurs (Rel 5)	Nokia	Approved
GP-030767	CR 44.018-259 Cipherring mode indication in handover command when handover from GERAN lu occurs (Rel 6)	Nokia	Approved
GP-030845	CR 44.060-283 rev 2 Clarification to GPRS cell reselection use in Packet Measurement Order message (Rel 6)	STMicroelectroincs	Revised
GP-031029	CR 44.060-283 rev 3 Clarification to GPRS cell reselection use in Packet Measurement Order message. (Rel-6)	STMicroelectroincs	Revised
GP-031060	CR 44.060-283 rev 4 Clarification to GPRS cell reselection use in Packet Measurement Order message (Rel 6)	STMicroelectroincs	Approved

Tdoc	Title	Source	Status
GP-030699	CR 44.060-332 rev 3: Enhancement of network controlled cell reselection procedure (Rel-6)	Ericsson	Revised
GP-031028	CR 44.060-332 rev 4 Enhancement of network controlled cell reselection procedure (Rel-6)	Ericsson	Approved
GP-030512	CR 44.060-333 rev 1 Indication of the MS support of "Modulation based multislot class" (Rel 4)	Siemens AG	Revised
GP-030915	CR 44.060-333 rev 2 Indication of the MS support of "Modulation based multislot class" (Rel-4)	Siemens AG	Revised
GP-031036	CR 44.060-333 rev 3 Indication of the MS support of "Modulation based multislot class" (Rel-4)	Siemens AG	Approved
GP-030513	CR 44.060-334 rev 1 Indication of the MS support of "Modulation based multislot class" (Rel 5)	Siemens AG	Revised
GP-030916	CR 44.060-334 rev 2 Indication of the MS support of "Modulation based multislot class" (Rel-5)	Siemens AG	Revised
GP-031037	CR 44.060-334 rev 3 Indication of the MS support of "Modulation based multislot class" (Rel-5)	Siemens AG	Approved
GP-030514	CR 44.060-335 rev 1 Indication of the MS support of "Modulation based multislot class" (Rel 6)	Siemens AG	Revised
GP-030917	CR 44.060-335 rev 2 Indication of the MS support of "Modulation based multislot class" (Rel-6)	Siemens AG	Revised
GP-031038	CR 44.060-335 rev 3 Indication of the MS support of "Modulation based multislot class" (Rel-6)	Siemens AG	Approved
GP-030629	CR 44.060-336 rev 1 EGPRS Supplementary/Polling (ES/P) Field usage in RLC unacknowledged mode (Rel-6)	Alcatel	Approved
GP-030632	CR 44.060-337 rev 1 Conflicting implementations CRs 253r1 and 200r2 (Rel-5)	Nokia	Approved
GP-030633	CR 44.060-338 rev 1 Conflicting implementations CRs 253r1 and 200r2 (Rel-6)	Nokia	Approved
GP-030625	CR 44.060-339 Correction to CBQ3 in PSI3 and PSI3bis (Rel-5)	Nokia	Approved
GP-030626	CR 44.060-340 Correction to CBQ3 in PSI3 and PSI3bis (Rel-6)	Nokia	Approved
GP-030636	CR 44.060-341 rev 2 Correction to wrong references to PACKET DL ACK/NACK message instead of EGPRS PACKET DL ACK/NACK message (Rel-5)	Nokia	Approved
GP-030637	CR 44.060-342 rev 2 Correction to wrong references to PACKET DL ACK/NACK message instead of EGPRS PACKET DL ACK/NACK message (Rel-6)	Nokia	Approved

Tdoc	Title	Source	Status
GP-030695	CR 44.060-343 rev 1: Missing SI15 option in PACKET STATUS message (Rel-6)	Ericsson	Approved
GP-030693	CR 44.060-344 rev 1: Missing SI15 option in PACKET STATUS message (Rel-4)	Ericsson	Approved
GP-030694	CR 44.060-345 rev 1: Missing SI15 option in PACKET STATUS message (Rel-5)	Ericsson	Approved
GP-030635	CR 44.060-346 rev 1 Clarification/correction of the usage of the PACKET PSI/SI STATUS message (Rel-6)	Ericsson	Approved
GP-030613	CR 44.060-347 MS reporting of radio-access capability in lu mod (Rel 5)	AWS	Approved
GP-030614	CR 44.060-348 MS reporting of radio-access capability in lu mode (Rel 6)	AWS	Approved
GP-030689	CR 44.060-349 Shift between dynamic and extended dynamic allocation (Rel-4)	Ericsson	Revised
GP-030925	CR 44.060-349 rev 1 Shift between dynamic and extended dynamic allocation (Rel-4)	Ericsson	Approved
GP-030690	CR 44.060-350 Shift between dynamic and extended dynamic allocation (Rel-5)	Ericsson	Revised
GP-030926	CR 44.060-350 rev 1 Shift between dynamic and extended dynamic allocation (Rel-5)	Ericsson	Approved
GP-030691	CR 44.060-351 Shift between dynamic and extended dynamic allocation (Rel-6)	Ericsson	Revised
GP-030927	CR 44.060-351 rev 1 Shift between dynamic and extended dynamic allocation (Rel-6)	Ericsson	Approved
GP-030717	CR 44.060-352 Inclusion of the channel quality report in dependency of the ES/P field (Rel 6)	Siemens AG	Approved
GP-030724	CR 44.060-353 Correction to definition of T3168 in chapter 13 (Rel 5)	Siemens	Revised
GP-030931	CR 44.060-353 rev 1 Correction to definition of T3168 in chapter 13 (Rel-5)	Siemens	Approved
GP-030725	CR 44.060-354 Correction to definition of T3168 in chapter 13 (Rel 6)	Siemens	Revised
GP-030932	CR 44.060-354 rev 1 Correction to definition of T3168 in chapter 13 (Rel-6)	Siemens	Approved
GP-030718	CR 44.060-355 Correction of power reduction mode coding after fixed allocation removal (Rel 5)	Ericsson	Withdrawn
GP-030795	CR 44.060-356 Transmission of dummy blocks on FACCH, SACCH, SDCCH (Rel 5)	Nokia	Rejected

Tdoc	Title	Source	Status
GP-030796	CR 44.060-357 Transmission of dummy blocks on FACCH, SACCH, SDCCH (Rel 6)	Nokia	Revised
GP-030933	CR 44.060-357 rev 1 Transmission of dummy blocks on FACCH, SACCH, SDCCH (Rel-6)	Nokia	Approved
GP-030797	CR 44.060-358 Missing MTBF messages in Downlink TBF release (Rel 5)	Nokia	Revised
GP-030934	CR 44.060-358 rev 1 Missing MTBF messages in Downlink TBF release (Rel-5)	Nokia	Approved
GP-030798	CR 44.060-359 Missing MTBF messages in Downlink TBF release (Rel 6)	Nokia	Revised
GP-030935	CR 44.060-359 rev 1 Missing MTBF messages in Downlink TBF release (Rel-6)	Nokia	Approved
GP-030799	CR 44.060-360 Missing G-RNTI extension in Packet Control Acknowledgement (Rel 5)	Nokia	Approved
GP-030800	CR 44.060-361 Missing G-RNTI extension in Packet Control Acknowledgement (Rel 6)	Nokia	Approved
GP-030801	CR 44.060-362 Deletion of lu mode references (Rel 5)	Nokia	Rejected
GP-030802	CR 44.060-363 Deletion of lu mode references (Rel 6)	Nokia	Revised
GP-030936	CR 44.060-363 rev 1 Deletion of lu mode references (Rel-6)	Nokia	Approved
GP-030823	CR 44.060-364 Error handling on LI and E IE in EGPRS RLC unacknowledged mode (Rel 6)	Alcatel	Postponed
GP-030824	CR 44.060-365 Clarification for downlink power control when PR field is missing in RLC control blocks (Rel 6)	Alcatel	Revised
GP-031055	CR 44.060-365 rev 1 Clarification for downlink power control when PR field is missing in RLC control blocks (Rel 6)	Alcatel	Approved
GP-030752	CR 44.060-366 Clarification on continuous TA procedure (Rel 4)	Siemens AG	Rejected
GP-030753	CR 44.060-367 Clarification on continuous TA procedure (Rel 5)	Siemens AG	Rejected
GP-030754	CR 44.060-368 Clarification on continuous TA procedure (Rel 6)	Siemens AG	Rejected
GP-030832	CR 44.060-369 Correction of capability to modify the BA(GPRS) list (Rel-5)	Nokia	Approved
GP-030833	CR 44.060-370 Correction of capability to modify the BA(GPRS) list (Rel-6)	Nokia	Approved
GP-030834	CR 44.060-371 Mandatoriness of SI13Alt PBCCH Location parameters in lu Mode only capable cells (Rel-5)	Nokia	Revised

Tdoc	Title	Source	Status
GP-030939	CR 44.060-371 rev 1 Mandatoriness of SI13Alt PBCCH Location parameters in Iu Mode only capable cells (Rel-5)	Nokia	Postponed
GP-030835	CR 44.060-372 Mandatoriness of SI13Alt PBCCH Location parameters in Iu Mode only capable cells (Rel-6)	Nokia	Revised
GP-030940	CR 44.060-372 rev 1 Mandatoriness of SI13Alt PBCCH Location parameters in Iu Mode only capable cells (Rel-6)	Nokia	Postponed
GP-030870	CR 44.060-373 Power control modes references removal (Rel 5)	Nortel Networks	Approved
GP-030871	CR 44.060-374 Power control modes references removal (Rel 6)	Nortel Networks	Approved
GP-030519	CR 44.060-375 Clarification of <GPRS REP PRIORITY> struct usage (Rel 6)	Melco Communication Europe	Mobile Revised
GP-031023	CR 44.060-375 rev 1 Clarification of <GPRS REP PRIORITY> struct usage (Rel-6)	Melco Communication Europe	Mobile Revised
GP-031035	CR 44.060-375 rev 2 Clarification of <GPRS REP PRIORITY> struct usage (Rel-6)	Melco Communication Europe	Mobile Revised
GP-031059	CR 44.060-375 rev 3 Clarification of <GPRS REP PRIORITY> struct usage (Rel-6)	Melco Communication Europe	Mobile Approved
GP-030630	CR 44.118-037 rev 1 Alignment procedures between UTRAN and GERAN Iu mode (Rel-5)	Nokia	Approved
GP-030628	CR 44.118-038 Wrong implementation of CRs to 44.118vs 5.3.0 (Rel-5)	Nokia	Approved
GP-030631	CR 44.118-039 rev 1 Alignment of Inter-RAT cell reselection and handover procedures between GERAN Iu mode and UTRAN (Rel-5)	Nokia	Approved
GP-030761	CR 44.118-040 Correction to RRC Connection management procedures (Rel 5)	Nokia	Revised
GP-030920	CR 44.118-040 rev 1 Correction to RRC Connection management procedures (Rel-5)	Nokia	Approved
GP-030762	CR 44.118-041 Correction to RRC Connection mobility procedures (Rel 5)	Nokia	Revised
GP-031027	CR 44.118-041 rev 1 Correction to RRC Connection mobility procedures (Rel-5)	Nokia	Approved
GP-030763	CR 44.118-042 Correction to Transmission of MS capability information procedures (Rel 5)	Nokia	Approved



Tdoc	Title	Source	Status
GP-030764	CR 44.118-043 Corrections to Radio Bearer Control Procedures (Rel 5)	Nokia	Revised
GP-030921	CR 44.118-043 rev 1 Corrections to Radio Bearer Control Procedures (Rel-5)	Nokia	Approved
GP-030765	CR 44.118-044 Corrections to Signalling connection release indication procedure (Rel 5)	Nokia	Approved
GP-030839	CR 44.118-045 Corrections to Security mode procedure (Rel 5)	Nokia	Revised
GP-030922	CR 44.118-045 rev 1 Corrections to Security mode procedure (Rel-5)	Nokia	Approved
GP-030840	CR 44.118-046 Corrections to Handover procedure (Rel 5)	Nokia	Approved
GP-030873	CR 44.118-047 Corrections to Initial Direct Transfer message (Rel 5)	Nokia	Approved
GP-030624	CR 44.160-046 PACKET DBPSCH ASSIGNMENT received before T3170 expires (Rel-5)	AWS	Approved
GP-030634	CR 44.160-047 rev 1 Correction to wrong references to PACKET DL ACK/NACK message instead of EGPRS PACKET DL ACK/NACK message (Rel-5)	Nokia	Approved
GP-030627	CR 44.160-048 Wrong implementation CR 042r1 (Rel-5)	Nokia	Approved
GP-030615	CR 44.160-049 Multi-block allocation for two-phase access (Rel 5)	AWS	Revised
GP-031021	CR 44.160-049 rev 1 Multi-block allocation for two-phase access (Rel-5)	AWS	Approved
GP-030803	CR 44.160-050 RLC/MAC Control block size on FACCH, SDCCH (Rel 5)	Nokia	Approved
GP-030804	CR 44.160-051 Transmission of Handover Access and Physical Information (Rel 5)	Nokia	Revised
GP-030937	CR 44.160-051 rev 1 Transmission of Handover Access and Physical Information (Rel-5)	Nokia	Approved
GP-030805	CR 44.160-052 Measurement order procedure in MAC-Idle state (Rel 5)	Nokia	Postponed
GP-030806	CR 44.160-053 Removal Fixed Allocation parameters from ciphering (Rel 5)	Nokia	Approved
GP-030807	CR 44.160-054 SFACCH and SRB2 in MAC-DTM state (Rel 5)	Nokia	Revised
GP-030938	CR 44.160-054 rev 1 SFACCH and SRB2 in MAC-DTM state (Rel-5)	Nokia	Approved
GP-030808	CR 44.160-055 Packet Mobile TBF status on DBPSCH (Rel 5)	Nokia	Postponed

Tdoc	Title	Source	Status
GP-030809	CR 44.160-056 Maximum TBF capacity (Rel 5)	Nokia	Postponed
GP-030810	CR 44.160-057 Incorrect implementation CR 24r1 (Rel 5)	Nokia	Approved
GP-030811	CR 44.160-058 Correction wrong reference (Rel 5)	Nokia	Postponed
GP-030836	CR 44.160-059 The removal of the incorret text from broadcast procedure (Rel-5)	Nokia	Approved
GP-030886	CR 44.160-060 Retransmission of lu mode channel request description during a DL TBF (Rel 5)	Nokia	Postponed
GP-030877	CR 45.001-021 MCS-3 padding for MCS-8 retransmission (Rel 4)	Nortel Networks	Revised
GP-030984	CR 45.001-021 rev 1 MCS-3 padding for MCS-8 retransmission (Rel 4)	Nortel Networks	Approved
GP-030878	CR 45.001-022 MCS-3 padding for MCS-8 retransmission (Rel 5)	Nortel Networks	Revised
GP-030985	CR 45.001-022 rev 1 MCS-3 padding for MCS-8 retransmission (Rel 5)	Nortel Networks	Approved
GP-030879	CR 45.001-023 MCS-3 padding for MCS-8 retransmission (Rel 6)	Nortel Networks	Revised
GP-030986	CR 45.001-023 rev 1 MCS-3 padding for MCS-8 retransmission (Rel 6)	Nortel Networks	Approved
GP-030509	CR 45.002-067 Mapping of the PDTCH/D on PCCCH in case EGPRS (Rel 4)	Siemens AG	Rejected
GP-030510	CR 45.002-068 Mapping of the PDTCH/D on PCCCH in case EGPRS (Rel 5)	Siemens AG	Rejected
GP-030511	CR 45.002-069 Mapping of the PDTCH/D on PCCCH in case EGPRS (Rel 6)	Siemens AG	Revised
GP-030975	CR 45.002-069 rev 1 Mapping of the PDTCH/D on PCCCH in case EGPRS (Rel 6)	Siemens AG	Approved
GP-030892	CR 45.002-070 Corrections for DTM multislot configurations (Rel-4)	Nokia	Approved
GP-030894	CR 45.002-071 Corrections for DTM multislot configurations (Rel-5)	Nokia	Approved
GP-030896	CR 45.002-072 Corrections for DTM multislot configurations (Rel-6)	Nokia	Approved
GP-030899	CR 45.002-073 Correction to Extended Dynamic Allocation operation (Rel 4)	Panasonic	Postponed
GP-030900	CR 45.002-074 Correction to Extended Dynamic Allocation operation (Rel 5)	Panasonic	Postponed

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GP-030901	CR 45.002-075 Correction to Extended Dynamic Allocation operation (Rel 6)	Panasonic	Postponed
GP-030757	CR 45.003-023 Padding for MCS-8 Retransmissions (Rel 4)	Nokia	Approved
GP-030758	CR 45.003-024 Padding for MCS-8 Retransmissions (Rel 5)	Nokia	Approved
GP-030720	CR 45.005-071 Correction of static AMR sensitivity requirements for TCH/AHS (Rel 6)	Ericsson	Approved
GP-030865	CR 45.005-072 Correction of transmitted power level versus time (Rel 4)	Nokia	Approved
GP-030866	CR 45.005-073 Correction of transmitted power level versus time (Rel 5)	Nokia	Approved
GP-030867	CR 45.005-074 Correction of transmitted power level versus time (Rel 6)	Nokia	Approved
GP-030863	CR 45.008-148 rev 1 BEP estimation accuracy for EMR (Rel 6)	Nokia	Approved
GP-030520	CR 45.008-151 Clarification on the usage of Qsearch_P when broadcast on the BCCH (Rel 6)	Melco Communication Europe	Mobile Withdrawn
GP-030716	CR 45.008-152 Clarification of BEP_PERIOD (Rel-6)	Siemens AG	Rejected
GP-030719	CR 45.008-153 Correction of power reduction mode after fixed allocation removal (Rel 5)	Ericsson	Withdrawn
GP-030748	CR 45.008-154 Use of unbiased variance in the computation of CV_BEP (Rel 4)	Nortel, Alcatel	Revised
GP-030977	CR 45.008-154 rev 1 Use of unbiased variance in the computation of CV_BEP (Rel 4)	Nortel, Alcatel	Approved
GP-030749	CR 45.008-155 Use of unbiased variance in the computation of CV_BEP (Rel 5)	Nortel, Alcatel	Revised
GP-030978	CR 45.008-155 rev 1 Use of unbiased variance in the computation of CV_BEP (Rel 5)	Nortel, Alcatel	Approved
GP-030750	CR 45.008-156 Use of unbiased variance in the computation of CV_BEP (Rel 6)	Nortel, Alcatel	Revised
GP-030979	CR 45.008-156 rev 1 Use of unbiased variance in the computation of CV_BEP (Rel 6)	Nortel, Alcatel	Approved
GP-030837	CR 45.008-157 Inconsistency of CBQ3 (Rel-5)	Nokia	Revised
GP-030988	CR 45.008-157 rev 1 Inconsistency of CBQ3 (Rel-5)	Nokia	Approved
GP-030838	CR 45.008-158 Inconsistency of CBQ3 (Rel-6)	Nokia	Revised
GP-030989	CR 45.008-158 rev 1 Inconsistency of CBQ3 (Rel-6)	Nokia	Approved

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GP-030857	CR 45.008-159 Modification of test channel for MEAN_BEP accuracy for EPGRS (Rel-4)	Ericsson	Postponed
GP-030858	CR 45.008-160 Modification of test channel for MEAN_BEP accuracy for EPGRS (Rel-5)	Ericsson	Postponed
GP-030859	CR 45.008-161 Modification of test channel for MEAN_BEP accuracy for EPGRS (Rel-6)	Ericsson	Postponed
GP-030868	CR 45.008-162 Power control modes references removal (Rel 5)	Nortel Networks	Approved
GP-030869	CR 45.008-163 Power control modes references removal (Rel 6)	Nortel Networks	Approved
GP-030882	CR 45.010-014 Clarification on continuous TA procedure (Rel 4)	Siemens AG	Rejected
GP-030883	CR 45.010-015 Clarification on continuous TA procedure (Rel 5)	Siemens AG	Rejected
GP-030884	CR 45.010-016 Clarification on continuous TA procedure (Rel 6)	Siemens AG	Approved
GP-030663	CR 48.016-006 Correction to configuration options for network entities supporting Gb/IP (Rel-4)	Siemens	Postponed
GP-030664	CR 48.016-007 Correction to configuration options for network entities supporting Gb/IP (Rel-5)	Siemens	Postponed
GP-030825	CR 48.018-080 rev 3: Usage of Allocation and Retention Priority in the BSS (rel 6)	Alcatel	Revised
GP-031030	CR 48.018-080 rev 4 Usage of Allocation and Retention Priority in the BSS (Rel-6)	Alcatel	Approved
GP-030675	CR 48.018-081 PFC release procedure	Siemens AG	Revised
GP-031026	CR 48.018-081 rev 1 PFC release procedure (Rel-6)	Siemens AG	Revised
GP-031040	CR 48.018-081 rev 2 PFC release procedure	Siemens AG	Approved
GP-030571	CR 48.071-009 rev 4 Proposed modification of SMLC-BSS signalling	TruePosition	Revised
GP-031032	CR 48.071-009 rev 5 Proposed modification of SMLC-BSS signalling (Rel-6)	TruePosition	Approved
GP-030656	CR 48.071-010 Proposed modification of SMLC-BSS signaling	TruePosition	Withdrawn
GP-030830	CR 51.010-1-1337 rev 4 Section 42.1.2.1 Addition of test case in TS 51.010 S42: Packet Timeslot Reconfigure containing a new Coding Scheme command	Alcatel	Revised

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GP-030946	CR 51.010-1-1337 rev 5 Section 42.1.2.1 Addition of test case in TS 51.010 S42: Packet Timeslot Reconfigure containing a new Coding Scheme command	Alcatel	Approved
GP-030484	CR 51.010-1-1343 Corrections of the Peak Throughput Class and Maximum bit rate values for clause 50.5 - Test PDP Context.	Nokia	Revised
GP-030967	CR 51.010-1-1343 rev 1 Corrections of the Peak Throughput Class and Maximum bit rate values for clause 50.5 - Test PDP Context.	Nokia	Withdrawn
GP-030485	CR 51.010-1-1344 Undo of the approved GERAN#12 changes for clause 51.2.5.1 - Packet access rejection / wait indication.	Nokia	Approved
GP-030486	CR 51.010-1-1345 Correction of Expected Sequence and Specific Message Content for clause 52.4.1.2 - Network Control measurement reporting / Idle mode / New cell reselection	Nokia	Approved
GP-030487	CR 51.010-1-1346 Deletion of clause 52.4.2.1.5 - Cell change order procedure / Uplink transfer / Failure cases / REJECT from the new cell and T3176 expiry	Nokia	Approved
GP-030488	CR 51.010-1-1347 Clarification of Step 25 in Expected Sequence for clause 52.4.2.3.1 - Cell change order procedure / Simultaneous uplink and downlink transfer / Normal case	Nokia	Withdrawn
GP-030489	CR 51.010-1-1348 Preventing of T3182 expiry in clause 53.1.1.9 - Acknowledged Mode/ Uplink TBF/ Pre-emptive Transmission Bit Set to '1'	Nokia	Approved
GP-030490	CR 51.010-1-1349 Addition of Macro for downlink TBF establishment using ACCESS TYPE = "signalling" for section 53.2.2.	Nokia & Setcom	Approved
GP-030491	CR 51.010-1-1350 Corrections on PACKET UPLINK ACK/NACK transmission timing and removal of T3198 in clause 53.1.1.x - Acknowledged Mode/ Uplink TBF	Nokia	Approved
GP-030492	CR 51.010-1-1351 Corrections of the Peak Throughput Class and Maximum bit rate values for clause 40.5 - Test PDP Context.	Nokia	Revised
GP-030968	CR 51.010-1-1351 rev 1 Corrections of the Peak Throughput Class and Maximum bit rate values for clause 40.5 - Test PDP Context.	Nokia	Withdrawn
GP-030493	CR 51.010-1-1352 Correct of NC_REPORTING_PERIOD_I value in step 2 of clause 41.2.7.2 - Single block packet downlink assignment / MS returns to packet idle mode.	Nokia	Revised
GP-030956	CR 51.010-1-1352 rev 1 Correct of NC_REPORTING_PERIOD_I value in step 2 of clause 41.2.7.2 - Single block packet downlink assignment / MS returns to packet idle mode.	Nokia	Approved

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GP-030494	CR 51.010-1-1353 Correction of Expected Sequence and Specific Message Content for clause 42.4.1.2 - Network Control measurement reporting / Idle mode / New cell reselection.	Nokia	Approved
GP-030495	CR 51.010-1-1354 Deletion of clause 42.4.2.1.5 - Cell change order procedure / Uplink transfer / Failure cases / REJECT from the new cell and T3176 expiry	Nokia	Approved
GP-030496	CR 51.010-1-1355 Clarification of Step 25 in Expected Sequence for clause 42.4.2.3.1 - Cell change order procedure / Simultaneous uplink and downlink transfer / Normal case - WITHDRAWN	Nokia	Withdrawn
GP-030497	CR 51.010-1-1356 Correction of step 5 of Expected Sequence for clause 44.2.3.1.7 - Routing area updating / abnormal cases / change of cell during routing area updating procedure.	Nokia	Revised
GP-030969	CR 51.010-1-1356 rev 1 Correction of step 5 of Expected Sequence for clause 44.2.3.1.7 - Routing area updating / abnormal cases / change of cell during routing area updating procedure.	Nokia	Approved
GP-030498	CR 51.010-1-1357 R99 compliance update of clause 44.2.3.2.5 Test Procedure 2 - Combined routing area updating / rejected / roaming not allowed in this location area.	Nokia	Approved
GP-030501	CR 51.010-1-1358 Correction of Test Procedure and Expected Sequence for clause 52.1.2.1.10.2 - Packet Uplink Assignment / Abnormal cases / Expiry of timer T3164.	Nokia	Approved
GP-030502	CR 51.010-1-1359 Correction of Test Procedure and Expected Sequence for clause 42.1.2.1.10.2 - Packet Uplink Assignment / Abnormal cases / Expiry of timer T3164.	Nokia	Approved
GP-030521	CR 51.010-1-1360 42.3.1.2.3 Dynamic Allocation / Uplink Transfer / Abnormal / with cell reselection in unacknowledged mode	Melco Communication Europe	Mobile Postponed
GP-030522	CR 51.010-1-1361 42.2.2.8.1 Fixed Allocation / Uplink Transfer / MS requests new resources/ Failure/ Packet Access Reject	Melco Communication Europe	Mobile Approved
GP-030523	CR 51.010-1-1362 42.2.2.8.2 Fixed Allocation / Uplink Transfer / MS requests new resources/ Failure/ Packet Access Reject with WAIT_INDICATION during allocation in progress	Melco Communication Europe	Mobile Approved
GP-030524	CR 51.010-1-1363 52.3.1.2.3 Dynamic Allocation / Uplink Transfer / Abnormal / with cell reselection in unacknowledged mode	Melco Communication Europe	Mobile Postponed
GP-030527	CR 51.010-1-1364 44.2.5.2.3 Correction of P-TMSI	Anite	Approved
GP-030528	CR 51.010-1-1365 51.3.1.3 Step 13 is incorrect if optional step A12 is executed	Anite	Revised

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GP-031002	CR 51.010-1-1365 rev 1 51.3.1.3 Step 13 is incorrect if optional step A12 is executed	Anite	Approved
GP-030529	CR 51.010-1-1366 42.3.1.1.4 Optional Step required at Step 38	Anite	Revised
GP-030941	CR 51.010-1-1366 rev 1 42.3.1.1.4 Optional Step required at Step 38	Anite	Revised
GP-031000	CR 51.010-1-1366 rev 2 42.3.1.1.4 Optional Step required at Step 38	Anite	Approved
GP-030530	CR 51.010-1-1367 52.3.1.1.4 Optional Step required at Step 38	Anite	Revised
GP-030960	CR 51.010-1-1367 rev 1 52.3.1.1.4 Optional Step required at Step 38	Anite	Approved
GP-030535	CR 51.010-1-1369 40.2.1.1.1 Missing BandIndicator in SI1 default	Anite	Revised
GP-030957	CR 51.010-1-1369 rev 1 40.2.1.1.1 Missing BandIndicator in SI1 default	Anite	Approved
GP-030536	CR 51.010-1-1370 53.1.2.7 Correct handling of ES/Pfield, remove unnecessary constraint	Anite	Approved
GP-030537	CR 51.010-1-1372 53.2.2.2 Correction of cause in step 2 of the macro	Anite	Withdrawn
GP-030538	CR 51.010-1-1373 44.2.1.1.10 Corrections to step numbering in Expected Sequence	Anite	Approved
GP-030539	CR 51.010-1-1374 42.3.1.1.9 Correction of Cell Allocation in the first set of Packet System Information Type 2 message	Anite	Revised
GP-031001	CR 51.010-1-1374 rev 1 42.3.1.1.9 Correction of Cell Allocation in the first set of Packet System Information Type 2 message	Anite	Approved
GP-030540	CR 51.010-1-1375 40.2.4.14.2, 40.2.4.14.3 Illegal values of Gamma in default messages	Anite	Approved
GP-030541	CR 51.010-1-1376 50.2.4.3 Illegal values of Gamma in default messages	Anite	Approved
GP-030542	CR 51.010-1-1377 42.3.3.1.2 - Correction to test PDP context number in initial condition and check in step 7 of expected sequence (Rel 5)	Sasken	Revised
GP-031003	CR 51.010-1-1377 rev 1 42.3.3.1.2 - Correction to test PDP context number in initial condition and check in step 7 of expected sequence (Rel 5)	Sasken	Approved
GP-030543	CR 51.010-1-1378 Addition of steps to Expected Sequence of 42.3.3.2.2 to meet the conformance requirements. (Rel-5)	Sasken	Approved

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GP-030544	CR 51.010-1-1379 51.2.3.2 - Two message assignment / Failure case (Rel-5)	Sasken	Approved
GP-030545	CR 51.010-1-1380 51.2.5.2 - Packet access rejection/assignment before T3142 expires (Rel-5)	Sasken	Withdrawn
GP-030546	CR 51.010-1-1381 Test case 52.1.2.1.3.1 to be done in transfer mode (Rel-5)	Sasken	Approved
GP-030547	CR 51.010-1-1382 Correction to Expected Sequence of 52.1.2.1.9.5 (Rel-5)	Sasken	Approved
GP-030548	CR 51.010-1-1383 Correction to Expected Sequence of test case 52.3.1.1.6 (Rel-5)	Sasken	Approved
GP-030549	CR 51.010-1-1384 52.3.3.1.2 - Correction to test PDP context number in initial condition and check in expected sequence (Rel-5)	Sasken	Approved
GP-030550	CR 51.010-1-1385 Correction to Expected Sequence of test case 52.3.3.2.2 (Rel-5)	Sasken	Approved
GP-030551	CR 51.010-1-1386 Correction to Expected Sequence of test case 52.3.3.3 (Rel-5)	Sasken	Approved
GP-030552	CR 51.010-1-1387 Correction to Expected Sequence of test case 53.1.1.3 (Rel-5)	Sasken	Withdrawn
GP-030553	CR 51.010-1-1388 51.2.2.1 - Link Quality Measurement Mode being removed from Immediate Assignment message, uplink construction (Rel-5)	Sasken	Approved
GP-030554	CR 51.010-1-1389 Sec. 42.1.2.1.10.2 Packet Uplink Assignment / Abnormal cases / Expiry of timer T3164	Siemens AG	Approved
GP-030555	CR 51.010-1-1390 Sec. 42.1.2.1.9.2.1 Packet Uplink Assignment / Two phase access / Contention resolution / Expiry of timer T3168	Siemens AG	Approved
GP-030556	CR 51.010-1-1391 Sec. 52.1.2.1.10.2 Packet Uplink Assignment / Abnormal cases / Expiry of timer T3164	Siemens AG	Approved
GP-030557	CR 51.010-1-1392 Sec. 52.1.2.1.9.2.1 Packet Uplink Assignment / Two phase access / Contention resolution / Expiry of timer T3168	Siemens AG	Approved
GP-030558	CR 51.010-1-1393 Sec. 53.1.1.12 Acknowledged Mode/ Uplink TBF/ Retransmission/ Split RLC Data Block	Siemens AG	Approved
GP-030559	CR 51.010-1-1394 Sec. 45.5.1 45.5.1 Change in Step 24: LLC SAPI value must be a reserved value	Siemens AG	Approved
GP-030560	CR 51.010-1-1395 Sec. 46.1.2.3.1 Numbering mistake in 46.1.2.3.1 Collision of SABM	Siemens AG	Approved
GP-030562	CR 51.010-1-1396 Correction in EOTD Test Case 70.6.2	Racal Instruments	Withdrawn



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GP-030563	CR 51.010-1-1397 Correction in EOTD Test Case 70.6.3	Racal Instruments	Withdrawn
GP-030564	CR 51.010-1-1398 Correction in EOTD Test Case 70.6.4	Racal Instruments	Withdrawn
GP-030565	CR 51.010-1-1399 Correction in EOTD Test Case 70.6.5	Racal Instruments	Withdrawn
GP-030566	CR 51.010-1-1400 Correction in EOTD Test Case 70.3.4.1	Racal Instruments	Withdrawn
GP-030572	CR 51.010-1-1401 Signal Quality Tests for AMR	Cingular	Revised
GP-030890	CR 51.010-1-1401 rev 1 Signal Quality Tests for AMR	Cingular	Approved
GP-030573	CR 51.010-1-1402 Update of testcases of section 52.1 to handle Mobiles using EPCR for signalling procedure	Setcom	Revised
GP-030958	CR 51.010-1-1402 rev 1 Update of testcases of section 52.1 to handle Mobiles using EPCR for signalling procedure	Setcom	Approved
GP-030574	CR 51.010-1-1403 Testcase 45.2.1.1 Attach initiated by context activation/QoS Offered by Network is the QoS Requested	Setcom	Approved
GP-030575	CR 51.010-1-1404 New testcase added: 45.2.1.3 QoS parameter out of range	Setcom	Rejected
GP-030576	CR 51.010-1-1405 New testcase added: 45.2.4.3 Network initiated PDP context activation request for an already activated PDP context (on the MS side)	Setcom	Approved
GP-030577	CR 51.010-1-1406 New testcase added: 45.4.4 PDP context deactivation initiated by the network / Tear down indicator	Setcom	Revised
GP-031043	CR 51.010-1-1406 rev 1 New testcase added: 45.4.4 PDP context deactivation initiated by the network / Tear down indicator	Setcom	Approved
GP-030578	CR 51.010-1-1407 New section added :45.2.5 Secondary PDP context activation procedures	Setcom	Approved
GP-030579	CR 51.010-1-1408 New section added :45.3.2 MS initiated PDP context modification	Setcom	Approved
GP-030580	CR 51.010-1-1409 New section added :34.4.1 Short message service point to point over GPRS	Setcom	Revised
GP-030995	CR 51.010-1-1409 rev 1 New section added :34.4.1 Short message service point to point over GPRS	Setcom	Approved
GP-030581	CR 51.010-1-1410 Sec. 46.1.1 Default Conditions of Section 46	Siemens AG	Approved
GP-030582	CR 51.010-1-1411 Sec: 42.4 - Addition of allocation of resource to send Packet Cell Change Failure	Setcom	Approved
GP-030583	CR 51.010-1-1412 Sec: 52.4 - Addition of allocation of resource to send Packet Cell Change Failure	Setcom	Revised

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GP-030942	CR 51.010-1-1412 rev 1 Sec: 52.4 - Addition of allocation of resource to send Packet Cell Change Failure	Setcom	Revised
GP-031012	CR 51.010-1-1412 rev 2 Sec: 52.4 - Addition of allocation of resource to send Packet Cell Change Failure	Setcom	Approved
GP-030584	CR 51.010-1-1413 Sec: 42.4.2.3.3 - Correction of requirement check	Setcom	Revised
GP-030943	CR 51.010-1-1413 rev 1 Sec: 42.4.2.3.3 - Correction of requirement check	Setcom	Withdrawn
GP-030585	CR 51.010-1-1414 Sec 51.2.3.8 - Correction to number of Packet Access initiation attempts	Setcom	Revised
GP-030959	CR 51.010-1-1414 rev 1 Sec 51.2.3.8 - Correction to number of Packet Access initiation attempts	Setcom	Revised
GP-031005	CR 51.010-1-1414 rev 2 Sec 51.2.3.8 - Correction to number of Packet Access initiation attempts	Setcom	Approved
GP-030586	CR 51.010-1-1415 Sec 51.3.1.1 - Introduction of Wait before sending Packet Uplink Ack/Nack	Setcom	Approved
GP-030587	CR 51.010-1-1416 Sec 51.3.1.2 - Correction to multislot classes checked.	Setcom	Approved
GP-030588	CR 51.010-1-1417 Sec 51.x and 52.x - Addition of check for EGPRS Packet Channel Request with Access Type 'Signalling'	Setcom	Approved
GP-030589	CR 51.010-1-1418 Sec 52.4.4.2 - Attach procedure need to be completed before sending Packet Measurement order.	Setcom	Revised
GP-030962	CR 51.010-1-1418 rev 1 Sec 52.4.4.2 - Attach procedure need to be completed before sending Packet Measurement order.	Setcom	Revised
GP-031007	CR 51.010-1-1418 rev 2 Sec 52.4.4.2 - Attach procedure need to be completed before sending Packet Measurement order.	Setcom	Approved
GP-030590	CR 51.010-1-1419 Sec 53.1.1.2 - Correction to BSN check in Step A12	Setcom	Approved
GP-030591	CR 51.010-1-1420 Sec 53.1.1.3 - Modification to the usage of Packet Timeslot Reconfigure and window size.	Setcom	Approved
GP-030592	CR 51.010-1-1421 Sec 53.1.1.4 - Correction to verification of BSN sequence in Step 7.	Setcom	Approved
GP-030593	CR 51.010-1-1422 Sec 53.1.2.12 - Correction to repetition sequence in step 4.	Setcom	Approved
GP-030594	CR 51.010-1-1423 Sec 53.1.1.15 - Correction to CV calculation.	Setcom	Approved
GP-030595	CR 51.010-1-1424 Sec 52.8.1.x - Addition of new testcases.	Setcom	Revised

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GP-030963	CR 51.010-1-1424 rev 1 Sec 52.8.1.x - Addition of new testcases.	Setcom	Revised
GP-031008	CR 51.010-1-1424 rev 2 Sec 52.8.1.x - Addition of new testcases.	Setcom	Approved
GP-030596	CR 51.010-1-1425 Sec 52.1.2.1.8.x - Addition of new testcases.	Setcom	Revised
GP-030964	CR 51.010-1-1425 rev 1 Sec 52.1.2.1.8.x - Addition of new testcases.	Setcom	Revised
GP-031009	CR 51.010-1-1425 rev 2 Sec 52.1.2.1.8.x - Addition of new testcases.	Setcom	Approved
GP-030597	CR 51.010-1-1426 Sec 42.1.2.1.8.x - Addition of new testcases.	Setcom	Revised
GP-030944	CR 51.010-1-1426 rev 1 Sec 42.1.2.1.8.x - Addition of new testcases.	Setcom	Revised
GP-031004	CR 51.010-1-1426 rev 2 Sec 42.1.2.1.8.x - Addition of new testcases.	Setcom	Approved
GP-030598	CR 51.010-1-1427 Sec 51.2.5 - Addition of new testcases to cover Immediate Assignment Reject scenarios.	Setcom	Approved
GP-030599	CR 51.010-1-1428 New testcase 53.1.1.24 - Acknowledged Mode/ Uplink TBF/ Interpretation of PBSN	Setcom	Approved
GP-030600	CR 51.010-1-1429 Sec 53.1.1.9 - Correction to expected sequence check	Setcom	Withdrawn
GP-030601	CR 51.010-1-1430 Section 42.1.2.1.5 Incorrect step reference in step 10	Rohde & Schwarz	Approved
GP-030602	CR 51.010-1-1431 Section 42.1.2.1.8.2.2 Inconsistency in expected sequence for two phase access	Rohde & Schwarz	Approved
GP-030603	CR 51.010-1-1432 Section 42.1.2.2.6 Incorrect initial conditions and PICS reference	Rohde & Schwarz	Approved
GP-030604	CR 51.010-1-1433 Section 42.3.1.1.6 Uplink TFI missing in specific message contents	Rohde & Schwarz	Approved
GP-030605	CR 51.010-1-1434 Section 52.1.2.1.5 Incorrect step reference in step 10	Rohde & Schwarz	Approved
GP-030606	CR 51.010-1-1435 Section 52.3.1.1.6 Uplink TFI missing in specific message contents	Rohde & Schwarz	Approved
GP-030607	CR 51.010-1-1436 Section 53.1.1.13 T3198 replaced by BS_CV_MAX block periods	Rohde & Schwarz	Withdrawn
GP-030608	CR 51.010-1-1437 Section 53.1.1.17 Consideration of MS reaction time	Rohde & Schwarz	Approved

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GP-030609	CR 51.010-1-1438 Section 53.1.1.18 Consideration of MS reaction time	Rohde & Schwarz	Approved
GP-030616	CR 51.010-1-1439 Correction to DTM Conformance Test in sub-clause 41.3.4.3	Vodafone	Approved
GP-030617	CR 51.010-1-1440 Correction to DTM Conformance Test in sub-clause 22.11	Vodafone	Approved
GP-030618	CR 51.010-1-1441 Correction to DTM Conformance Test in sub-clause 44.2.8.2	Vodafone	Revised
GP-030965	CR 51.010-1-1441 rev 1 Correction to DTM Conformance Test in sub-clause 44.2.8.2	Vodafone	Approved
GP-030619	CR 51.010-1-1442 Correction to DTM Conformance Test in sub-clause 47.3.2.2	Vodafone	Approved
GP-030621	CR 51.010-1-1443 Addition of new test cases section 52.9	Setcom	Withdrawn
GP-030622	CR 51.010-1-1444 52.1.2.2.5.1 Packet Downlink Assignment / Abnormal cases / Incorrect PDCH assignment	Setcom	Approved
GP-030623	CR 51.010-1-1445 42.1.2.2.5.1 Packet Downlink Assignment / Abnormal cases / Incorrect PDCH assignment	Setcom	Approved
GP-030638	CR 51.010-1-1446 Correction of Expected Sequence for clause 52.4.1.3 - Network Control measurement reporting / Downlink transfer / Normal case	Nokia	Approved
GP-030658	CR 51.010-1-1447 26.7.4.5.4.4 "Location updating/periodic search of the PLMN in foreign country, when a MS is receiving HPLMN /MS is in automatic mode".	Motorola	Withdrawn
GP-030659	CR 51.010-1-1448 26.7.4.5.4.4 "Location updating/periodic search of the HPLMN, when a MS is receiving foreign country's VPLMN/MS is in automatic mode".	Motorola	Revised
GP-030951	CR 51.010-1-1448 rev 1 26.7.4.5.4.4 "Location updating/periodic search of the higher priority PLMN, when a MS is receiving foreign country's VPLMN/MS is in automatic mode".	Motorola	Revised
GP-030996	CR 51.010-1-1448 rev 2 26.7.4.5.4.4 "Location updating/periodic search of the higher priority PLMN, when a MS is receiving foreign country's VPLMN/MS is in automatic mode".	Motorola	Approved
GP-030660	CR 51.010-1-1449 GPRS Enhanced Measurement Report (EMR) Test Cases	Motorola	Revised
GP-030953	CR 51.010-1-1449 rev 1 GPRS Enhanced Measurement Report (EMR) Test Cases	Motorola	Revised
GP-030998	CR 51.010-1-1449 rev 2 GPRS Enhanced Measurement Report (EMR) Test Cases	Motorola	Revised

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GP-031020	CR 51.010-1-1449 rev 3 GPRS Enhanced Measurement Report (EMR) Test Cases	Motorola	Revised
GP-031045	CR 51.010-1-1449 rev 4 GPRS Enhanced Measurement Report (EMR) Test Cases	Motorola	Approved
GP-030677	CR 51.010-1-1450 Section 51.1.1.2 Check for completeness of ATTACH REQUEST not possible	Rohde & Schwarz	Approved
GP-030678	CR 51.010-1-1451 Section 51.1.1.3 BS_PCC_CHANS is not included in PSI1	Rohde & Schwarz	Approved
GP-030679	CR 51.010-1-1452 Section 51.1.3 Check in step 5 incorrect for k=2	Rohde & Schwarz	Approved
GP-030680	CR 51.010-1-1453 Section 41.1.3 Check in step 5 incorrect for k=2	Rohde & Schwarz	Approved
GP-030681	CR 51.010-1-1454 Section 51.1.4.1 Correction of macro parameters (was fixed allocation)	Rohde & Schwarz	Approved
GP-030682	CR 51.010-1-1455 Section 51.1.5.1.2 Incorrect channel assignment, step reference corrected	Rohde & Schwarz	Approved
GP-030683	CR 51.010-1-1456 Section 41.1.5.1.2 Step reference corrected	Rohde & Schwarz	Approved
GP-030684	CR 51.010-1-1457 Section 51.1.6 Incorrect WAIT_INDICATION in test procedure	Rohde & Schwarz	Approved
GP-030685	CR 51.010-1-1458 Section 51.2.1.1 Priority level 4 missing in test parameters	Rohde & Schwarz	Approved
GP-030686	CR 51.010-1-1459 Section 53.1.1.2 Incorrect BSN in optional step A12	Rohde & Schwarz	Withdrawn
GP-030702	CR 51.010-1-1460 New TC: Network Assisted Cell Change / Expiry of T3206	Ericsson	Approved
GP-030703	CR 51.010-1-1461 New TC: Network Assisted Cell Change / No Packet Neighbouring Cell Data and Packet Cell Change Continue	Ericsson	Approved
GP-030704	CR 51.010-1-1462 New TC: Network Assisted Cell Change / Packet Neighbour Cell Data and Packet Cell Change Continue	Ericsson	Approved
GP-030705	CR 51.010-1-1463 New TC: Network Assisted Cell Change / Packet Neighbour Cell Data and Packet Cell Change Order	Ericsson	Approved
GP-030706	CR 51.010-1-1464 New TC: Network Assisted Cell Change / Expiry of T3208 and T3210	Ericsson	Approved
GP-030707	CR 51.010-1-1465 New TC: Network Assisted Cell Change / Entering packet idle mode	Ericsson	Revised

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GP-030992	CR 51.010-1-1465 rev 1 New TC: Network Assisted Cell Change / Entering packet idle mode	Ericsson	Approved
GP-030708	CR 51.010-1-1466 New TC: Network Assisted Cell Change / CCN not supported towards target cell	Ericsson	Revised
GP-030993	CR 51.010-1-1466 rev 1 New TC: Network Assisted Cell Change / CCN not supported towards target cell	Ericsson	Approved
GP-030710	CR 51.010-1-1468 Addition of PICS/PIXIT statement to clause 46.1.2.7.6 and 46.1.2.6.2	Ericsson	Approved
GP-030711	CR 51.010-1-1469 Correction to TC 43.1.1.5	Ericsson	Revised
GP-030954	CR 51.010-1-1469 rev 1 Correction to TC 43.1.1.5	Ericsson	Approved
GP-030713	CR 51.010-1-1470 Editorial Corrections to AMR-NB Tests	Cingular Wireless	Approved
GP-030714	CR 51.010-1-1471 Updates to assign GPRS or EGPRS TBF depending upon the use of CHANNEL REQUEST or EGPRS PACKET CHANNEL REQUEST in clauses 51.2.2.1	Sasken	Approved
GP-030715	CR 51.010-1-1472 Additional Macros to Sec 50	Sasken	Approved
GP-030769	CR 51.010-1-1473 Section 51.2.x Corrections of PDP context specification in initial conditions	Rohde & Schwarz	Revised
GP-030961	CR 51.010-1-1473 rev 1 Section 51.2.x Corrections of PDP context specification in initial conditions	Rohde & Schwarz	Approved
GP-030770	CR 51.010-1-1474 Section 51.2.2.2 Incorrect reference in section Justification	Rohde & Schwarz	Approved
GP-030771	CR 51.010-1-1475 Section 51.2.2.3 Items from GPRS mirror CRs missing	Rohde & Schwarz	Approved
GP-030772	CR 51.010-1-1476 Section 51.2.2.5 Incorrect channel request type referenced	Rohde & Schwarz	Approved
GP-030773	CR 51.010-1-1478 Section 51.2.3.3 Incorrect description in Test procedure	Rohde & Schwarz	Approved
GP-030774	CR 51.010-1-1479 Section 14.* Correction in limit checking sections for AMR tests (statistical testing part)	Rohde & Schwarz	Approved
GP-030775	CR 51.010-1-1480 Section 14.1.6 Accidentally removed from 51.010-1 V5.1.0	Rohde & Schwarz	Approved
GP-030776	CR 51.010-1-1481 Section 26.6.3.x BCCH allocation sequence number missing for DCS 1800 and PCS 1900 bands	Rohde & Schwarz	Approved
GP-030778	CR 51.010-1-1482 Section 26.6.8.4 Default neighbour cells parameters specifications can not be used	Rohde & Schwarz	Withdrawn
GP-030779	CR 51.010-1-1483 Section 40.2.1.1.1 MSCR bit in SI3 must be set for R99 network simulation	Rohde & Schwarz	Approved

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GP-030828	CR 51.010-1-1484 Section 42.1.2.1 Multiple PCCCH test cases	Alcatel	Revised
GP-030945	CR 51.010-1-1484 rev 1 Section 42.1.2.1 Multiple PCCCH test cases	Alcatel	Withdrawn
GP-030777	CR 51.010-1-1485 Section 26.6.13.1 Ambiguity for test parameter T1	Rohde & Schwarz	Approved
GP-030847	CR 51.010-1-1486 42.3.2.1.2 Dynamic Allocation / Uplink Transfer with Downlink TBF establishment / Normal / Multislotcapabilities	Setcom	Withdrawn
GP-030848	CR 51.010-1-1487 52.3.2.1.2 Dynamic Allocation / Uplink Transfer with Downlink TBF establishment / Normal / Multislot capabilities	Setcom	Withdrawn
GP-030849	CR 51.010-1-1488 Clarification of applicability for different TCH/H -channels in 14.2.4 and 14.4.5	Nokia	Approved
GP-030850	CR 51.010-1-1490 Clarification on test procedure of 14.18.6	Nokia	Approved
GP-030855	CR 51.010-1-1491 Section 20.22.12 C1 value in wrong column	Rohde & Schwarz	Approved
GP-030889	CR 51.010-1-1492 Test procedure for TC 44.2.1.1.9 does not take into account the specification conform behaviour of an autoattach GPRS MS	Agere Systems	Withdrawn
GP-030955	CR 51.010-1-1493 Location updating/periodic search of the HPLMN, when a MS is receiving foreign country's VPLMN/MS is in automatic mode	Cingular	Revised
GP-030997	CR 51.010-1-1493 rev 1 Location updating/periodic search of the HPLMN, when a MS is receiving foreign country's VPLMN/MS is in automatic mode	Cingular	Approved
GP-030990	CR 51.010-1-1494 Corrections of Core Specification references for clause 41.1.5.1.2 - RR / Paging / on CCCH for GPRS service / normal paging with IMSI successful.	Nokia	Approved
GP-030991	CR 51.010-1-1495 Corrections of Core Specification references for clause 51.1.5.1.2 - RR / Paging / on CCCH for EGPRS service / normal paging with IMSI successful.	Nokia	Approved
GP-030499	CR 51.010-2-107 Clarification to speech codec definitions	Nokia	Approved
GP-030500	CR 51.010-2-108 Correction of Applicability column for clause 14.2.4.	Nokia	Approved
GP-030620	CR 51.010-2-109 Addition of some DTM test cases to the applicability table	Vodafone	Revised
GP-030966	CR 51.010-2-109 rev 1 Addition of some DTM test cases to the applicability table	Vodafone	Approved

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GP-030639	CR 51.010-2-110 Deletion of test cases 42.4.2.1.5 and 52.4.2.1.5 from Table B.1.	Nokia	Approved
GP-030657	CR 51.010-2-111 Modification of applicability table in 51.010-2 due to introduction of new test cases in 51.010-1	Setcom	Revised
GP-030970	CR 51.010-2-111 rev 1 Modification of applicability table in 51.010-2 due to introduction of new test cases in 51.010-1	Setcom	Revised
GP-031044	CR 51.010-2-111 rev 2 Modification of applicability table in 51.010-2 due to introduction of new test cases in 51.010-1	Setcom	Approved
GP-030829	CR 51.010-2-112 Section 42.1.2.1 Multiple PCCCH test cases	Alcatel	Withdrawn
GP-030831	CR 51.010-2-113 Section 42.1.2.1 "Addition of test case in TS 51.010 S42: Packet Timeslot Reconfigure containing a new Coding Scheme command	Alcatel	Revised
GP-031017	CR 51.010-2-113 rev 1 Section 42.1.2.1 "Addition of test case in TS 51.010 S42: Packet Timeslot Reconfigure containing a new Coding Scheme command	Alcatel	Approved
GP-030841	CR 51.010-2-114 Updating PICS for RxQual test cases	Cingular Wireless	Approved
GP-030952	CR 51.010-2-115 Modification of applicability table in 51.010-2 due to introduction of new test cases in 51.010-1	Motorola	Revised
GP-030999	CR 51.010-2-115 rev 1 Modification of applicability table in 51.010-2 due to introduction of new test cases in 51.010-1	Motorola	Approved
GP-030709	CR 51.010-2-116 Addition of test cases for Network Assisted Cell Change	Ericsson	Revised
GP-030994	CR 51.010-2-116 rev 1 Addition of test cases for Network Assisted Cell Change	Ericsson	Approved
GP-031013	CR 51.010-2-117 Incorrect applicability for six test cases of section 42.3.1.1.x	Rohde & Schwarz	Approved
GP-031015	CR 51.010-2-118 Update PICS for GPRS EMR test case	Motorola	Revised
GP-031046	CR 51.010-2-118 rev 1 Update PICS for GPRS EMR test case	Motorola	Revised
GP-031050	CR 51.010-2-118 rev 2 Update PICS for GPRS EMR test case	Motorola	Approved
GP-030531	CR 51.010-3-018 20.14 Implementation of new Test Case	Anite	Revised
GP-030947	CR 51.010-3-018 rev 1 20.14 Implementation of new Test Case	Anite	Approved
GP-030532	CR 51.010-3-019 20.6 Bring TTCN of part 3 into alignment with part 1	Anite	Revised
GP-030948	CR 51.010-3-019 rev 1 20.6 Bring TTCN of part 3 into alignment with part 1	Anite	Approved



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GP-030533	CR 51.010-3-020 34.3 Update Number change in Cell Broadcasting	Anite	Revised
GP-030949	CR 51.010-3-020 rev 1 34.3 Update Number change in Cell Broadcasting	Anite	Approved
GP-030534	CR 51.010-3-021 Change to CCCAP structure	Anite	Revised
GP-030950	CR 51.010-3-021 rev 1 Change to CCCAP structure	Anite	Approved