

TSG GERAN Report to TSG-SA#10

TSG-GERAN Convenor
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Tdoc SP-010148

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)

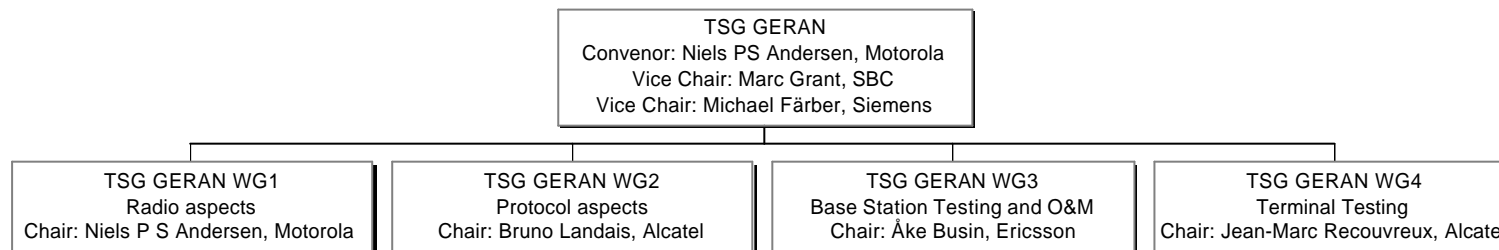
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- A interface specification, Gb interface specification
- Internal GERAN interface specifications such as Abis, and Ater (CCU-TRAU)
- Conformance test specifications for testing of all aspects of GERAN base stations
- Conformance test specifications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

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Organisation of TSG GERAN (1/3)

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Organisation of TSG GERAN (2/3)

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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: Bruno Landais, Alcatel

- 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 (3/3)

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TSG GERAN WG3 – Base Station Testing and O&M

Chairman: Åke Busin, Ericsson

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

TSG GERAN WG4 – Terminal Testing

Chairman: Jean-Marc Recouvreux, Alcatel

- Conformance test specifications for testing of all aspects of GERAN terminals

Current work areas (1/2)

Workplan updated to better integrate with overall workplan
(see attachment)

More than 30 Work Items adopted covering

- GERAN/UTRAN interface evolution 1 (Iu_{ps}) (F)
- GERAN/UTRAN interface evolution 2 (Iu_{cs}) (F)
- Low chip rate TDD interworking with GERAN (BB)
- GERAN improvements 1 (Gb over Ip) (F)
- GERAN improvements 2 (Gb enhancements) (F + BB)
- GERAN improvements 3 (Evolution of A-interface transport)
(F + BB)
- GERAN Support for IP multimedia (F + 5 BB)

Current work areas (2/2)

- Alignment with 3G functional split and Iu (F + 6 BB)
- GERAN enhancements for streaming services 1 (F + BB)
- GERAN enhancements for streaming services 2 (F + BB)
- 700 MHz spectrum support (F + 3 BB)
- Real Time QoS for packet services including VoIP (F + BB)
- Support of WB AMR in GERAN incl. testing (3 BB)
- Location Services in GERAN incl testing (5 BB)

- For GPRS R97, R98 and R99 a problem regarding contention resolution has been identified and corrected.
 - The potential problem of the case of networks not utilising ciphering for GPRS and the Mobile station might during contention resolution react to PACKET DOWNLINK ASSIGNMENT or PACKET TIMESLOT RECONFIGURE messages intended to another mobile station has been corrected
 - Already existing mobiles will remain unchanged on the market.
 - A new specification in the 09.9x-series keeping record of earlier of late changes and earlier compliant behaviour will be drafted. First draft available.
- Other areas in GERAN of GPRS are stable for R97/R98/R99

- The need for and utilisation of GPRS NMOIII was questioned – It was concluded that at least for R97/R98/R99 NMOIII is needed.
- Experience with GPRS have revealed a need for reducing the number of TBF releases especially for TCP based protocols – Different proposals for "Delayed TBF Release" are being considered.
- LCS R98/R99: There are issues related to the LCS Bearer and segmentation.
- LCS for PS:
 - Two architectural options are debated. BSS centric or CN centric
 - Delays have changed the expected completion date from April to June 2001

Frequency bands – 3G–2G Interworking

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- The incompatibility of ARFCNs between the 1800 MHz and 1900 MHz bands in relation multiband operation have been studied. A solution allowing any combination of multi-band operation to be used in the future has been agreed.
- To avoid saturation of the ARFCNs proposals have been received and work has been started on Dynamic ARFCNs
- 3G – 2G interworking is considered stable. The remaining open issues related to "blind handovers" has been specified. Timing values are in Square brackets until TSG GERAN #4

- TSG GERAN realises the benefit of common Non-Access Stratum test, however merging of the related UTRAN and GERAN Test Cases is not thought to be practical, since the amount of work required to merge would be unmanageable. Instead a pragmatic solution on coordination of test cases has been proposed.
- TSG GERAN is still seeking support for TSG GERAN WG4 to draft test cases for the new(er) functionalities.
- Also TSG GERAN have replied to a liaison statement from TSG T WG1 on timing issues for idle mode. TSG GERAN notes that it will require help from experts in the field of idle mode to draft and review such test cases in TSG T WG1

Future GERAN (1/2)

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- In GERAN (Release 5) Two options will exist Iu or A/Gb interface. Real time packet support is only planned for Iu
- After evaluation of multiplexing of real time (conversational class) and non real time services (best effort) on one timeslot it has been concluded that this do not provided any significant gain justifying the added complexity
- Due to the size of SIP messages and the peak data rate of in one GERAN timeslot, TSG GERAN has concluded that SIP compression is necessary. The signalling bearer for SIP is being developed under this assumption

- TSG GERAN as defined header removal for VoIP streams using RTP/UDP/IP, but not for other data streams. Header regeneration will be mandatory in the uplink. For the downlink TSG GERAN is currently studying the information required to be provided during call set-up to enable the mobile station to regenerate the headers.
- A joint meeting with TSG SA WG2 and TSG RAN WG3 is planned to further progress the issues related to lu, lu-rg etc.

Support for codecs

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- Evaluation criteria for the selection of channel coding for 8-PSK HR AMR has been agreed.
- TSG GERAN has introduced necessary support for WB-AMR with exception of the support on the Ater interface and the radio performance requirements for the new channel configurations.
 - TSG GERAN do not expect to be able to complete the Ater support at TSG GERAN #04
 - It as been agreed to specify the radio performance requirements for the channel configurations for WB-AMR in a manner similar to the GPRS specification. This in order to initially save simulation time and later save testing time.

List of CR status at TSG-GERAN #03 is attached

Specification and version numbering

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

Future TSG GERAN Plenary meetings

TSG GERAN
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- | | |
|---------------|--|
| TSG GERAN #04 | 2 - 6 April 2001, Biarritz, France |
| TSG GERAN #05 | 28 May - 1 June 2001, Chicago, USA |
| TSG GERAN #06 | 27 - 31 August 2001, Naantali, Finland |
| TSG GERAN #07 | 26 - 30 November 2001, ? |

Proposal for a modified work plan for GERAN

1 Introduction

The following document presents the new work plan after restructuring the work items.

Feature	Building block	Work task	Date of completion
Evolution of transport (UTRAN Feature)	Evolution of transport in UTRAN and GERAN	Addition of transport mechanisms other than ATM for lu <ul style="list-style-type: none"> • Identification of alternative transports • Specification of those alternative transports 	To be estimated by R3
GERAN/UTRAN interface evolution 1 GP-000481	Evolution of lu ps	<ul style="list-style-type: none"> • Identification of GERAN requirements on lu ps • Update of specifications 	Nov 2000 (#2) Feb 2001 (#3)
GERAN/UTRAN interface evolution 2 GP-010417	Evolution of lu cs GP-000430	<ul style="list-style-type: none"> • Identification of GERAN requirements on lu cs • Update of specifications 	Jan 2001 (#2) Feb 2001 (#3)
Low chip rate TDD option (UTRAN)	Low chiprate TDD interworking with GERAN GP-000432	<ul style="list-style-type: none"> • Handover and Cell Selection / Reselection to UTRA 1.28Mcps TDD 	Jan 2001 (#3)
GERAN improvements 1 GP-000433	Gb over IP GP-000434	IP-fication of Gb <ul style="list-style-type: none"> • Concept • Changes to 08.16, 08.18 	Nov 2000 (#2)
GERAN improvements 2 GP-000435	Gb enhancements GP-000436	NACC <ul style="list-style-type: none"> • Concept • Changes in 03.64 • Changes in 04.60 • Changes in 44.008 	Jan 2001 (#3)
GERAN improvements 3 GP-000418	Evolution of the transport for A GP-000419	<ul style="list-style-type: none"> • Definition of a new A Interface Transport Layer option based on the lu Interface Transport Layer • Adaptation of the Layer 3 BSSMAP procedures as required. 	June 2001 (#4)
GERAN support for IP multimedia GP-010420	GERAN Header adaptation GP-010421	Header adaptation: <ul style="list-style-type: none"> • Definition of compression and removal modes for PDCP protocol • Conceptual description in stage 2 • Necessary changes on stage 3 regarding header removal 	Sept 2000 (#1) April 2001 (#4) June 2001 (#5)
	GERAN Radio access bearer design for IP multimedia GP-010422	MuM control signalling for conversational multimedia services. <ul style="list-style-type: none"> • Identification of requirements • Necessary modifications due to SIP 	Jan 2001 (#3) Jun 2001 (#5)
	Physical layer multiplexing GP-010423	Stage 2 Stage 3	Jan 2001 Jun 2001 (#5)

	GERAN MS Conformance test for support of IP multimedia GP-010424	<ul style="list-style-type: none"> MS test 	Dec 2001 (#7)
	GERAN BTS Conformance test for support of IP multimedia GP-010425	<ul style="list-style-type: none"> BTS test 	Dec 2001 (#7)
Alignment of 3G functional split and lu GP-010426	GERAN user / control plane GP-010427	Alignment with UMTS bearer concept <ul style="list-style-type: none"> Stage 2 Adoption of the UTRAN PDCP Development of RLC / MAC Development of GERAN RR Ciphering and integrity protection Logical and physical channel realization (TCH, PDTCH, control channels) 45.002 Use of stealing bits Fast access Fast power control 	Nov 2000 (#2) Jan 2001 (#3) Jun 2001 (#5) Jun 2001 (#5) Jun 2001 (#5) Jan 2001 (#3) Jan 2001 (#3) Apr 2001 (#4) Jan 2001 (#3)
		Physical layer alignment with UMTS bearer concept <ul style="list-style-type: none"> PDTCH/TCH in 45.003 Control channels in 45.003 Receiver performance in 45.005 for PDTCH/TCH and control channels 	Apr 2001 (#4) Jun 2001 (#5)
	lu rg interface GP-010427	Inter BSS interface <ul style="list-style-type: none"> Identification of requirements Stage 2 Adoption of relevant parts from lu r Complementation with GERAN specifics New stage 3 	June 2001 (#5)
		Inter BSS-RNS interface <ul style="list-style-type: none"> Identification of requirements Stage 2 Adoption of relevant parts from lu r Complementation with GERAN specifics New stage 3 	June 2001 (#5)
Voice over GERAN PS and CS concept GP-010432	Voice over GERAN PS and CS concept <ul style="list-style-type: none"> Architecture for A, lu cs and lu ps Transcoder position/operation Handover RTP payload FPC LA 	Jan 2001 (#3)	
GERAN Narrowband speech realization GP-010433	8PSK NB HR <ul style="list-style-type: none"> Channel coding in 45.003 Signalling for A interface Signalling for lu Link adaptation in 45.009 Receiver performance in 45.005 	Apr 2001 (#4)	
		June 2001 (#5)	
	8PSK NB QR <ul style="list-style-type: none"> Channel coding in 45.003 Signalling for A interface Signalling for lu Link adaptation in 45.009 Receiver performance in 45.005 	Apr 2001 (#4) June 2001 (#5)	
GERAN MS Conformance test for GERAN interface evolution GP-010434	<ul style="list-style-type: none"> MS test 	Dec 2001 (#7)	

	GERAN BTS Conformance test for GERAN interface evolution GP-010435	<ul style="list-style-type: none"> BTS test 	Dec 2001 (#7)
GERAN enhancements for streaming services 1 GP-010430	GERAN enhancements for streaming services 1 GP-010430	<ul style="list-style-type: none"> Concept RLC protocol enhancement 	Apr 2001 (#4) Jun 2001 (#5)
GERAN enhancements for streaming services 2 GP-010429	GERAN enhancements for streaming services 2 GP-010429	Usage of ECSD Stage 2 Stage 3 <ul style="list-style-type: none"> RLC PDU formats MAC header 	Jan 2001 (#3) Jun 2001 (#5)
700 MHz spectrum support GP-000449	GERAN support for the 700 MHz band	<ul style="list-style-type: none"> Signaling support Physical layer definitions Receiver performance and RF budget 	Jan 2001(#3)
	GERAN MS Conformance test for 700 MHz band GP-000451	<ul style="list-style-type: none"> MS test 	Apr 2001 (#4)
	GERAN BTS Conformance test for GERAN interface evolution GP-000452	<ul style="list-style-type: none"> BTS test 	Apr 2001 (#4)
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"> Stable RT handover report 25.936 including header removal Update of stage 2 Update of relevant stage 3 specs 	Jan 2001 (#3) April 2001 (#4) June 2001 (#5)
Wideband telephony services (UMTS)	Support of WB AMR in GERAN GP-000453	GMSK and 8PSK WB FR / HR support <ul style="list-style-type: none"> Channel coding in 45.003 Signalling for A interface Signalling for Iu Link adaptation in 45.009 Receiver performance in 45.005 	Apr 2001 (#4) Jun 2001 (#5)
	GERAN MS Conformance test for WB AMR GP-000454	<ul style="list-style-type: none"> MS test 	Dec 2001 (#7)
	GERAN BTS Conformance test for WB AMR GP-000455	<ul style="list-style-type: none"> BTS test 	Dec 2001 (#7)
Location service (UMTS)	LCS interoperability aspects to GERAN GP-000456	<ul style="list-style-type: none"> Co-ordinated development of GSM LCS Phase 2 and UMTS LCS, S2 and GERAN 	November 2001 (#7)
	Location Services (LCS) for GERAN in A/Gb Mode GP-010390	<ul style="list-style-type: none"> GERAN LCS Stage Two (first release) Gb interface support for LCS RLC/MAC protocol support for LCS L3 protocol support for LCS Stage 3 specifications 	June 2001(#5)

Location Services (LCS) for GERAN in Lu Mode GP-010391	<ul style="list-style-type: none"> • GERAN LCS stage 2 (second release) • lu-ps interface support for LCS • lu-cs interface support for LCS • lur-g interface support for LCS • RRC protocol support for LCS • Additional impacts on Broadcast of LCS data on packet channels • Stage 3 specifications 	November 2001 (#7)
GERAN MS Conformance test for LCS GP-000458	<ul style="list-style-type: none"> • MS test 	November 2001 (#7)
GERAN BTS Conformance test for LCS GP-000459	<ul style="list-style-type: none"> • BTS test 	November 2001 (#7)

2 References

- [1] 3GPP PD 50.099 – GERAN overall project plan, GAHW-000172, source Rapporteur
[2] Overall work plan for 3GPP, GAHW-000162, Source MCC

3 Appendix for MCC

- GP-000481 -> GP-010175 revised to GP-010417 (Marc Grant) -> SBC, Motorola, Nokia, Ericsson, Nortel
- GP-010176 revised to GP-010418 changed the picture regarding u/c split (Jose-Luis Carrizo) -> BellSouth, Vodafone, Mannesmann, Telia, T-Mobil
- GP-010177 revised to GP-010419 same changes as in GP-010418
- 178 revised to 420 (Shkumbin hamiti) (change the Xs and remove SA2) -> AWS, Nokia, Ericsson, Nortel, Siemens, Motorola
- GP-000439-> GP-010179 revised to GP-010421 (Shkumbin Hamiti) (change the Xs and remove SA2) -> AWS, Nokia, Ericsson, Nortel, Siemens, Motorola
- GP-000440-> GP-010180 revised to GP-010422 (Shkumbin Hamiti) (change the Xs and remove SA2) -> AWS, Nokia, Ericsson, Nortel, Siemens, Motorola
- 182 revised to 423 (Shkumbin Hamiti) (change the Xs and remove SA2) -> AWS, Nokia, Ericsson, Nortel, Siemens, Motorola
- 183 revised to 424 (Shkumbin Hamiti) (change the Xs and remove SA2) -> AWS, Nokia, Ericsson, Nortel, Siemens, Motorola
- 184 revised to 425 (Shkumbin Hamiti) (change the Xs and remove SA2) -> AWS, Nokia, Ericsson, Nortel, Siemens, Motorola
- GP-000464 -> GP-010185 revised to GP-010426 (Frank Muller) -> AWS, Nokia, Ericsson, Nortel, Siemens, Vodafone
- GP-000441 -> GP-010186 revised to GP-010427 (Frank Muller) -> AWS, Nokia, Ericsson, Nortel, Siemens, Vodafone
- GP-000443 -> GP-010187 revised to GP-010428 (Jose-Luis Carrizo) -> AWS, Nokia, Ericsson, Nortel, Siemens, Motorola, Vodafone
- GP-010188 is discontinued
- GP-010189 revised to GP-010430: change the title to GERAN enhancements for streaming services 1, changed the table, added a work item Improvement of the RLC protocol (Krishna Balachandran), Lucent, Ericsson, AWS, Nortel
- 190 revised to 429: change the title to GERAN enhancements for streaming services 2., changed the table, added a work task Modofcations to the RLC protocol (Frank Muller) AWS, Nokia, Ericsson, Nortel, Siemens, Motorola, Vodafone
- 191 revised to 431: basically no changes (Frank Muller)
- GP-000444 -> GP-010192 revised to GP-010432: basically no changes (Frank Muller)

- GP-000445 -> GP-010193 revised to GP-010433: basically no changes (Frank Muller)
- GP-000446 -> GP-010194 revised to GP-010434: basically no changes (Frank Muller)
- GP-000447 -> GP-010195 revised to GP-010435: basically no changes (Frank Muller)
- GP-000918 -> GP-010390 Revised due to time plan changes
- GP-000919 -> GP-010391 Revised due to time plan changes

**3GPP TSG GERAN
Meeting no 3
Boston, Massachusetts, USA
15 – 19 January 2001**

List of CRs presented to TSG GERAN #03

Tdoc	Title	Source	Status
GP-010091	CR 03.22-A051 Removal of Anonymous Access (R99)	Ericsson	Approved
GP-010049	CR 03.64-A076 rev 2 Introduction of Network Assisted Cell Change feature in the stage 2 description	GERAN Adhoc #3	Revised
GP-010292	CR 03.64-A076 rev 3 Introduction of Network Assisted Cell Change feature in the stage 2 description	Ericsson	Revised
GP-010362	CR 03.64-A076 rev 4 Introduction of Network Assisted Cell Change feature in the stage 2 description	GERAN Adhoc #3	Approved
GP-010093	CR 03.64-A077 Removal of Anonymous Access (R99)	Ericsson	Approved
GP-010142	CR 03.64-A078 Correction to the ordering of the E/FBI bits (R99)	Siemens	Revised
GP-010343	CR 03.64-A078 rev 1 Correction to the ordering of the E/FBI bits (R99)	Siemens	Approved
GP-010153	CR 03.71-Axxx BSSMAP Connection Oriented Information (R98)	Ericsson	NA
GP-010154	CR 03.71-Axxx BSSMAP Connection Oriented Information (R99)	Ericsson	NA
GP-010147	CR 03.71-Axxx Segmentation/Preemption (R98)	Ericsson	NA
GP-010324	CR 03.71-Axxx Segmentation/Preemption (R98)	Ericsson	NA
GP-010150	CR 03.71-Axxx Segmentation/Preemption (R99)	Ericsson	NA
GP-010327	CR 03.71-Axxx Segmentation/Preemption (R99)	Ericsson	NA
GP-010260	CR 04.04-A108 Corrections to 04.04 (Rel 4)	Siemens	Postponed
GP-010148	CR 04.06-A010 Segmentation/Preemption (R98)	Ericsson	Revised
GP-010325	CR 04.06-A010 rev 1 Segmentation/Preemption (R98)	Ericsson	Revised
GP-010371	CR 04.06-A010 rev 2 Segmentation/Preemption for LCS (R98)	Ericsson	Revised
GP-010397	CR 04.06-A010 rev 3 Segmentation/Preemption for LCS (R98)	Ericsson	Approved
GP-010151	CR 04.06-A011 Segmentation/Preemption (R99)	Ericsson	Revised

Tdoc	Title	Source	Status
GP-010328	CR 04.06-A011 rev 1 Segmentation/Preemption (R99)	Ericsson	Revised
GP-010373	CR 04.06-A011 rev 2 Segmentation/Preemption (R99)	Ericsson	Revised
GP-010399	CR 04.06-A011 rev 3 Segmentation/Preemption (R99)	TSG GERAN WG2	Approved
GP-010236	CR 04.07-Axxx Addition of RR_NO_ABORT_IND primitive at RR-SAP in MS side (R98) – For information	Nokia	NA
GP-010113	CR 04.08-A740 Correct definition of APDU IEs (R98)	Nortel Networks	Withdrawn
GP-010237	CR 04.08-Axxx Addition of new timer T32xx for RR_NO_ABORT_IND (no abort/abort allowed) case (R98) – for information	Nokia	NA
GP-010059	CR 04.18-A181 BSICs in idle mode and default preconfigurations: procedure and terminology alignments (R99)	Vodafone	Revised
GP-010345	CR 04.18-A181 rev 1 BSICs in idle mode and default preconfigurations: procedure and terminology alignments (R99)	Vodafone	Approved
GP-010108	CR 04.18-A182 Correction of SI19 Rest Octets (R99)	Ericsson	Revised
GP-010306	CR 04.18-A182 rev 1 Correction of SI19 Rest Octets (R99)	Ericsson	Approved
GP-010094	CR 04.18-A183 Removal of Anonymous Access (R99)	Ericsson	Approved
GP-010114	CR 04.18-A184 Correct definition of APDU IEs (R99)	Nortel Networks	Withdrawn
GP-010144	CR 04.18-A185 DTM: Replacement of 'padding bits' in RR messages (R99)	Ericsson	Approved
GP-010274	CR 04.18-A186 Precision about Blind Handover 2G->3G (R99)	Nortel Networks	Revised
GP-010348	CR 04.18-A186 rev 1 Precision about Blind Handover 2G->3G (R99)	Nortel Networks	Approved
GP-010275	CR 04.18-A187 Blind Handover 2G->2G (R99)	Nortel Networks	Revised
GP-010350	CR 04.18-A187 rev 1 Blind Handover 2G->2G (R99)	Nortel Networks	Approved
GP-010366	CR 04.18-A188 Control of ARFCN channel numbering for 1800 and 1900	Ericsson	Revised
GP-010404	CR 04.18-A188 rev 1 Control of ARFCN channel numbering for 1800 and 1900	Ericsson	Approved
GP-010149	CR 04.31-A019 Segmentation/Preemption (R98)	Ericsson	Revised
GP-010326	CR 04.31-A019 rev 1 Segmentation/Preemption (R98)	Ericsson	Revised
GP-010372	CR 04.31-A019 rev 2 Segmentation/Preemption (R98)	Ericsson	Revised
GP-010398	CR 04.31-A019 rev 3 Segmentation/Preemption (R98)	TSG GERAN WG2	Approved

Tdoc	Title	Source	Status
GP-010152	CR 04.31-A020 Segmentation/Preemption (R99)	Ericsson	Revised
GP-010329	CR 04.31-A020 rev 1 Segmentation/Preemption (R99)	Ericsson	Revised
GP-010374	CR 04.31-A020 rev 2 Segmentation/Preemption (R99)	Ericsson	Revised
GP-010400	CR 04.31-A020 rev 3 Segmentation/Preemption (R99)	TSG GERAN WG2	Approved
GP-010209	CR 04.31-A021 Segmentation of Long Location Assistance Messages (R98)	Motorola	Withdrawn
GP-010210	CR 04.31-A022 Segmentation of Long Location Assistance Messages (R99)	Motorola	Withdrawn
GP-010233	CR 04.35-A008 Editorial correction to RTD Drift Factor IE presence information (R98)	Nokia	Revised
GP-010369	CR 04.35-A008 rev 1 Editorial correction to RTD Drift Factor IE presence information (R98)	Nokia	Approved
GP-010234	CR 04.35-A009 Editorial correction to RTD Drift Factor IE presence information (R99)	Nokia	Revised
GP-010370	CR 04.35-A009 rev 1 Editorial correction to RTD Drift Factor IE presence information (R99)	Nokia	Approved
GP-010080	CR 04.60-A910 Measurement reporting in Packet Cell Change Failure (R99)	Nokia	Revised
GP-010304	CR 04.60-A910 rev 1 Measurement reporting in Packet Cell Change Failure (R99)	Nokia	Withdrawn
GP-010123	CR 04.60-A925 Introduction of Network Assisted Cell Change procedures (Rel 4)	Ericsson	Revised
GP-010354	CR 04.60-A925 rev 1 Introduction of Network Assisted Cell Change procedures (Rel-4)	Ericsson	Approved
GP-010005	CR 04.60-A951 Mobile station behaviour during one-phase contention resolution (R97)	Adhoc on contention resolution	Withdrawn
GP-010006	CR 04.60-A952 Mobile station behaviour during one-phase contention resolution (solving confidentiality issue) (R97)	Adhoc on contention resolution	Approved
GP-010007	CR 04.60-A953 Mobile station behaviour during one-phase contention resolution (R98)	Adhoc on contention resolution	Withdrawn
GP-010008	CR 04.60-A954 Mobile station behaviour during one-phase contention resolution (solving confidentiality issue) (R98)	Adhoc on contention resolution	Approved
GP-010009	CR 04.60-A955 Mobile station behaviour during one-phase contention resolution (solving confidentiality issue) (R99)	Adhoc on contention resolution	Revised

Tdoc	Title	Source	Status
GP-010347	CR 04.60-A955 rev 1 Mobile station behaviour during one-phase contention resolution (solving confidentiality issue) (R99)	Adhoc on contention resolution	Approved
GP-010032	CR 04.60-A956 TBF establishment via PCCCH (Rel 5)	Siemens	Postponed
GP-010039	CR 04.60-A957 Corrections to PACKET PSI STATUS procedure and message encoding (R99)	Nokia	Revised
GP-010305	CR 04.60-A957 rev 1 Corrections to PACKET PSI STATUS procedure and message encoding (R99)	Nokia	Approved
GP-010062	CR 04.60-A958 GPRS to UTRAN network initiated cell reselection: stopping of Timer T3174 (R99)	Vodafone, Nokia	Approved
GP-010066	CR 04.60-A959 Expiry of timer T3188 (R99)	Ericsson	Approved
GP-010079	CR 04.60-A960	-	Withdrawn
GP-010110	CR 04.60-A961 Separation of 3G information from PSI3ter into PSI3quater message	Nokia	Revised
GP-010316	CR 04.60-A961 rev 1 Separation of 3G information from PSI3ter into PSI3quater message	Nokia	Approved
GP-010107	CR 04.60-A962 Usage of EGPRS PACKET CHANNEL REQUEST message (R99)	Ericsson	Revised
GP-010342	CR 04.60-A962 rev 1 Usage of EGPRS PACKET CHANNEL REQUEST message (R99)	Ericsson	Revised
GP-010412	CR 04.60-A962 rev 2 Usage of EGPRS PACKET CHANNEL REQUEST message (R99)	Ericsson	Approved
GP-010096	CR 04.60-A963 Removal of Anonymous Access (R99)	Ericsson	Approved
GP-010104	CR 04.60-A964 Measurements during polling response transmission (R99)	Ericsson	Approved
GP-010116	CR 04.60-A965 Handling of (P)BCCH_CHANGE_MARK (R97)	Ericsson	Withdrawn
GP-010117	CR 04.60-A966 Handling of (P)BCCH_CHANGE_MARK (R98)	Ericsson	Withdrawn
GP-010118	CR 04.60-A967 Handling of (P)BCCH_CHANGE_MARK (R99)	Ericsson	Revised
GP-010308	CR 04.60-A967 rev 1 Handling of (P)BCCH_CHANGE_MARK (R99)	Ericsson	Withdrawn
GP-010125	CR 04.60-A968 Fine tuning of GPRS cell reselection (R99)	Motorola	Revised
GP-010446	CR 04.60-A968 rev 1 Fine tuning of GPRS cell reselection (R99)	Motorola	Approved
GP-010069	CR 04.60-A969 RLC protocol: SNS and modulo operation (R99)	Lucent Technologies	Revised

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GP-010320	CR 04.60-A969 rev 1 RLC protocol: SNS and modulo operation (Rel-4)	Lucent Technologies	Revised
GP-010409	CR 04.60-A969 rev 2 RLC protocol: SNS and modulo operation (Rel-4)	Lucent Technologies	Postponed
GP-010070	CR 04.60-A970 RLC protocol: Conditions for pre-emptive re-transmission (R99)	Lucent Technologies	Revised
GP-010321	CR 04.60-A970 rev 1 RLC protocol: Conditions for pre-emptive re-transmission (R99)	Lucent Technologies	Approved
GP-010071	CR 04.60-A971 RLC protocol: Definition of bitmap (R99)	Lucent Technologies	Revised
GP-010322	CR 04.60-A971 rev 1 RLC protocol: Definition of bitmap (R99)	Lucent Technologies	Revised
GP-010410	CR 04.60-A971 rev 2 RLC protocol: Definition of bitmap (R99)	Lucent Technologies	Approved
GP-010072	CR 04.60-A972 RLC protocol: Relation between parameters ES/P, V(Q), BOW, EOW and PBSN (R99)	Lucent Technologies	Revised
GP-010323	CR 04.60-A972 rev 1 RLC protocol: Relation between parameters ES/P, V(Q), BOW, EOW and PBSN (R99)	Lucent Technologies	Approved
GP-010073	CR 04.60-A973 RLC protocol: Some corrections to statements regarding BOW ,EOW and bitmap (R99)	Lucent Technologies	Revised
GP-010338	CR 04.60-A973 rev 1 RLC protocol: Some corrections to statements regarding BOW ,EOW and bitmap (R99)	Lucent Technologies	Approved
GP-010074	CR 04.60-A974 RLC protocol: Correction to a statement on the EGPRS receive state array (R99)	Lucent Technologies	Revised
GP-010339	CR 04.60-A974 rev 1 RLC protocol: Correction to a statement on the EGPRS receive state array (R99)	Lucent Technologies	Approved
GP-010075	CR 04.60-A975 RLC protocol: RLC Protocol: Correction to pre-emptive bit value (R99)	Lucent Technologies	Revised
GP-010340	CR 04.60-A975 rev 1 RLC protocol: RLC Protocol: Correction to pre-emptive bit value (R99)	Lucent Technologies	Revised
GP-010411	CR 04.60-A975 rev 2 RLC protocol: RLC Protocol: Correction to pre-emptive bit value (R99)	Lucent Technologies	Approved
GP-010076	CR 04.60-A976 Delete the redundant parameter PCCCH_TIMESLOT (R99)	Lucent Technologies	Revised
GP-010341	CR 04.60-A976 rev 1 Delete the redundant parameter PCCCH_TIMESLOT (R99)	Lucent Technologies	Approved
GP-010146	CR 04.60-A977 Correction of Length Indicator handling in final RLC data block (R99)	Siemens	Approved

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GP-010249	CR 04.60-A978 Delayed TBF release (R99)	Motorola	Postponed
GP-010250	CR 04.60-A979 Extended Uplink TBF (Rel 4) WITHDRAWN	Motorola	Withdrawn
GP-010268	CR 04.60-A980 Correction to One Phase Access in EGPRS (R99)	Nokia	Withdrawn
GP-010269	CR 04.60-A981 Changes to chapter 8 for GERAN (Rel 5)	Nokia	Postponed
GP-010102	CR 05.02-A172 Possible multislot configurations for GPRS (R99)	Ericsson	Approved
GP-010157	CR 05.02-A173 Clarification of the monitored GPRS control channels during GPRS attachment (R97)	Alcatel	Rejected
GP-010158	CR 05.02-A174 Clarification of the monitored GPRS control channels during GPRS attachment (R98)	Alcatel	Rejected
GP-010159	CR 05.02-A175 Clarification of the monitored GPRS control channels during GPRS attachment (R99)	Alcatel	Approved
GP-010130	CR 05.03-044 Coding and Interleaving Proposal for O-FACCH/F and O-FACCH/H (Rel 5)	Ericsson	Postponed
GP-010261	CR 05.03-A045 Editorial Correction to SACCH Block Coding (Rel 4)	Siemens	Approved
GP-010242	CR 05.03-A046 Channel coding for TCH/WFS (Rel 5)	Nokia	Revised
GP-010333	CR 05.03-A046 rev 1 Channel coding for TCH/WFS (Rel 5)	Nokia	Approved
GP-010100	CR 05.04-A008 Correction of symbol period notation (R98)	Ericsson	Approved
GP-010101	CR 05.04-A009 Correction of symbol period notation (R99)	Ericsson	Approved
GP-010198	CR 05.05-A181 Interpretation of common DCS 1800 / PCS 1900 ARFCN numbers when transmitted on other bands (R99)	Nokia	Revised
GP-010300	CR 05.05-A181 rev 1 Interpretation of common DCS 1800 / PCS 1900 ARFCN numbers when transmitted on other bands (R99)	Nokia	Revised
GP-010378	CR 05.05-A181 rev 2 Interpretation of common DCS 1800 / PCS 1900 ARFCN numbers when transmitted on other bands (R99)	Nokia	Withdrawn
GP-010200	CR 05.05-A182 Further alignment of PCS 1900 RF requirements with DCS 1800 (R99)	Nokia	Revised
GP-010334	CR 05.05-A182 rev 1 Further alignment of PCS 1900 RF requirements with DCS 1800 (R99)	Nokia	Rejected
GP-010222	CR 05.05-A183 Correction of Power vs Time mask for 8-PSK (R99)	Ericsson	Approved
GP-010224	CR 05.05-A184 Definition of MXM systems missing (R99)	Ericsson	Revised

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GP-010298	CR 05.05-A184 rev 1 Definition of MXM systems missing (R99)	Ericsson	Approved
GP-010226	CR 05.05-A185 Testing of Intra BSS intermodulation attenuation requirements for MXM 850 BSS (R99)	Ericsson	Approved
GP-010264	CR 05.05-A186 Mixed Mode Systems Intermodulation Attenuation (R99)	Lucent Technologies	Revised
GP-010335	CR 05.05-A186 rev 1 Mixed Mode Systems Intermodulation Attenuation (R99)	Lucent Technologies	Approved
GP-010285	CR 05.05-A187 Alignment of AM-suppression requirements for MXM 1900 BTS with PCS 1900 BTS and MXM 850 BTS with GSM 850 BTS (R99)	Ericsson	Approved
GP-010394	CR 05.05-A188 Interpretation of common DCS 1800 / PCS 1900 ARFCN numbers when transmitted on other bands (R99)	Ericsson	Revised
GP-010441	CR 05.05-A188 rev 1 Interpretation of common DCS 1800 / PCS 1900 ARFCN numbers when transmitted on other bands (R99)	Ericsson	Approved
GP-010057	CR 05.08-A308 Handling of missing gamma values (R99)	Nokia	Approved
GP-010097	CR 05.08-A309 Removal of Anonymous Access (R99)	Ericsson	Approved
GP-010105	CR 05.08-A310 Measurements during polling response transmission (R99)	Ericsson	Approved
GP-010126	CR 05.08-A311 Fine tuning of GPRS cell reselection (R99)	Motorola	Approved
GP-010203	CR 05.08-A312 Multi-RAT measurements (R99)	Nokia	Approved
GP-010282	CR 05.08-A313 3G Cell reselection with only frequency information (R99)	France Telecom	Revised
GP-010376	CR 05.08-A313 rev 1 3G Cell reselection with only frequency information (R99)	France Telecom	Approved
GP-010380	CR 05.08-A314 Addition of GSM blind handover requirements (R99)	Nortel Networks	Revised
GP-010438	CR 05.08-A314 rev 1 Addition of GSM blind handover requirements (R99)	Nortel Networks	Approved
GP-010244	CR 05.09-A017 Changes to link adaptation for TCH/WFS (Rel 5)	Nokia	Revised
GP-010332	CR 05.09-A017 rev 1 Changes to link adaptation for TCH/WFS (Rel 5)	Nokia	Approved
GP-010383	CR 05.09-A018 Clarification of Transmitter/Receiver synchronisation (R99)	Nortel Network	Revised
GP-010443	CR 05.09-A018 rev 1 Clarification of Transmitter/Receiver synchronisation (R99)	Nortel Network	Revised

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GP-010451	CR 05.09-A018 rev 2 Clarification of Transmitter/Receiver synchronisation (R99)	TSG GERAN	Approved
GP-010384	CR 05.09-A019 Clarification of Transmitter/Receiver synchronisation (R98)	Nortel Network	Revised
GP-010444	CR 05.09-A019 rev 1 Clarification of Transmitter/Receiver synchronisation (R98)	Nortel Network	Revised
GP-010452	CR 05.09-A019 rev 2 Clarification of Transmitter/Receiver synchronisation (R98)	TSG GERAN	Approved
GP-010099	CR 05.10-A067 Delay requirements for blind handover to UTRAN (R99)	Ericsson	Revised
GP-010297	CR 05.10-A067 rev 1 Delay requirements for blind handover to UTRAN (R99)	Ericsson	Approved
GP-010141	CR 05.10-A068 Uplink and downlink assignment reaction time (Rel 4)	Motorola	Rejected
GP-010382	CR 05.10-A069 Timing requirements for blind handover 2G->2G (R99)	Nortel Networks	Revised
GP-010440	CR 05.10-A069 rev 1 Timing requirements for blind handover 2G->2G (R99)	Nortel Networks	Approved
GP-010034	CR 08.08-A227 Clarification of Asymmetry indication (R99)	Nokia	Revised
GP-010317	CR 08.08-A227 rev 1 Clarification of Asymmetry indication (R99)	Nokia	Approved
GP-010036	CR 08.08-A228 Usage of Handover Performed message over MAP/E (R99)	Nokia	Revised
GP-010311	CR 08.08-A228 rev 1 Usage of Handover Performed message over MAP/E (R99)	Nokia	Revised
GP-010407	CR 08.08-A228 rev 2 Usage of Handover Performed message over MAP/E (R99)	Nokia	Approved
GP-010067	CR 08.08-A230 Circuit pools for ECSD (R99)	Siemens	Approved
GP-010111	CR 08.08-A231 Use of SAI in Handover Performed after GSM to UMTS handover	Ericsson	Withdrawn
GP-010063	CR 08.18-A113 Spare values clarification (R97)	Vodafone	Withdrawn
GP-010064	CR 08.18-A114 Alignment Octet/LLC-PDU re-union and spare values clarification (R98)	Vodafone	Revised
GP-010401	CR 08.18-A114 rev 1 Alignment Octet/LLC-PDU re-union and spare values clarification (R98)	Vodafone	Approved

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GP-010065	CR 08.18-A115 Alignment Octet/LLC-PDU re-union and spare values clarification (R99)	Vodafone	Revised
GP-010402	CR 08.18-A115 rev 1 Alignment Octet/LLC-PDU re-union and spare values clarification (R99)	Vodafone	Approved
GP-010143	CR 08.18-A116 Rate of transmission of flow control packets on the Gb interface (R99)	Siemens	Revised
GP-010309	CR 08.18-A116 rev 1 Rate of transmission of flow control packets on the Gb interface (R99)	Siemens	Withdrawn
GP-010313	CR 08.18-A117 Correction to 08.18 (R99)	Motorola	Approved
GP-010061	CR 08.18-A118 Service based' Network initiated Cell Change Order to UTRAN (R99)	Vodafone, T-Mobil	Revised
GP-010315	CR 08.18-A118 rev 1 Service based' Network initiated Cell Change Order to UTRAN (R99)	Vodafone, T-Mobil	Revised
GP-010455	CR 08.18-A118 rev 2 Service based' Network initiated Cell Change Order to UTRAN (R99)	Vodafone, T-Mobil	Approved
GP-010089	CR 11.10-3-C479 TC_20_19 alignment with 51.010-1	TSG GERAN WG4	Approved
GP-010089	CR 11.10-3-C480 Alignment of 11.10-3 TC_26_6_5_9 to 51.010-1	TSG GERAN WG4	Approved
GP-010265	CR 11.21-A141 Intermodulation Test Method for MXM-850/1900 (R99)	Lucent Technologies	Postponed
GP-010235	CR 24.007-xxx Addition of RR_NO_ABORT_IND primitive at RR-SAP in MS side (R99) - For information	Nokia	NA
GP-010124	CR 24.008-354 Introduction of release indicator in the MS Radio Access Capability IE (Rel 4)	Ericsson	NA
GP-010238	CR 24.008-xxx Addition of new timer T32xx for RR_NO_ABORT_IND (no abort/abort allowed) case) – for information	Nokia	NA
GP-010092	CR 43.022-002 Removal of Anonymous Access (Rel 4)	Ericsson	Approved
GP-010041	CR 43.051-001 Editorial corrections of sections 2 and 3 (Rel 5)	GERAN Adhoc #3	Approved
GP-010042	CR 43.051-002 Corrections of section on GERAN architecture (Rel 5)	GERAN Adhoc #3	Approved
GP-010044	CR 43.051-003 Changes to clause 6 (Rel 5)	GERAN Adhoc #3	Approved
GP-010046	CR 43.051-004 Clarification wrt TFI unicity (Rel 5)	GERAN Adhoc #3	Revised
GP-010289	CR 43.051-004 rev 1 Clarification wrt TFI unicity(Rel 5)	TSG GERAN	Approved

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GP-010051	CR 43.051-005 Definition of the MAC functions (Rel 5)	GERAN Adhoc #3	Approved
GP-010052	CR 43.051-006 Editorial corrections of sections 2 and 3 (Rel 5)	GERAN Adhoc #3	Revised
GP-010290	CR 43.051-006 rev 1 Editorial corrections of Annex C (Rel 5)	TSG GERAN	Approved
GP-010137	CR 43.051-007 RLC/MAC for ECSD channels (Rel 5)	Ericsson	Approved
GP-010220	CR 43.051-008 Change of MAC modes into MAC states; corrections related to PDTCH on DPSCH (Rel 5)	Alcatel, Ericsson, Lucent, Nokia, Nortel, Siemens, Vodafone	Approved
GP-010221	CR 43.051-009 Clarification of RRC functions (Rel 5)	Alcatel, Ericsson, Lucent, Nokia, Siemens, Vodafone	Approved
GP-010319	CR 43.051-010 Revision of working assumption on ciphering (Rel 5)	Nokia	Postponed
GP-010033	CR 44.018-067 TBF establishment via CCCH (Rel 5)	Siemens	Postponed
GP-010060	CR 44.018-068 BSICs in idle mode and default preconfigurations: procedure and terminology alignments (Rel 4)	Vodafone	Revised
GP-010346	CR 44.018-068 rev 1 BSICs in idle mode and default preconfigurations: procedure and terminology alignments (Rel-4)	Vodafone	Approved
GP-010109	CR 44.018-069 Correction of SI19 Rest Octets (Rel 4)	Ericsson	Revised
GP-010307	CR 44.018-069 rev 1 Correction of SI19 Rest Octets (Rel-4)	Ericsson	Approved
GP-010095	CR 44.018-070 Removal of Anonymous Access (Rel 4)	Ericsson	Approved
GP-010115	CR 44.018-071 Correct definition of APDU IEs (Rel 4)	Nortel Networks	Withdrawn
GP-010145	CR 44.018-072 DTM: Replacement of 'padding bits' in RR messages (Rel-4)	Ericsson	Approved
GP-010214	CR 44.018-073 Introduction of PACKET SI STATUS support in SI13 (Rel 4)	Alcatel	Revised
GP-010356	CR 44.018-073 rev 1 Introduction of PACKET SI STATUS support in SI13 (Rel-4)	Alcatel	Approved
GP-010276	CR 44.018-074 Precision about Blind Handover 2G->3G (Rel 4)	Nortel Networks	Revised
GP-010349	CR 44.018-074 rev 1 Precision about Blind Handover 2G->3G (Rel-4)	Nortel Networks	Approved
GP-010277	CR 44.018-075 Blind Handover 2G->2G (Rel 4)	Nortel Networks	Revised
GP-010351	CR 44.018-075 rev 1 Blind Handover 2G->2G (Rel-4)	Nortel Networks	Approved

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GP-010367	CR 44.018-076 Control of ARFCN channel numbering for 1800 and 1900 (Rel 4)	Ericsson	Revised
GP-010405	CR 44.018-076 rev 1 Control of ARFCN channel numbering for 1800 and 1900 (Rel 4)	Ericsson	Approved
GP-010240	CR 45.001-001 Addition of TCH/WFS (Rel 5)	Nokia	Approved
GP-010103	CR 45.002-005 Possible multislot configurations for GPRS (Rel 4)	Ericsson	Approved
GP-010160	CR 45.002-006 Clarification of the monitored GPRS control channels during GPRS attachment (Rel 4)	Alcatel	Approved
GP-010241	CR 45.002-007 Addition of TCH/WFS (Rel 5)	Nokia	Approved
GP-010245	CR 45.002-008 Mapping of HR and QR channels (Rel 5)	Nokia	Postponed
GP-010133	CR 45.005-007 Introduction of new AMR speech channels and control channels on Half-rate channels with 8-PSK modulation (Rel 5)	Ericsson	Postponed
GP-010199	CR 45.005-008 Interpretation of common DCS 1800 / PCS 1900 ARFCN numbers when transmitted on other bands (Rel 4)	Nokia	Revised
GP-010331	CR 45.005-008 rev 1 Interpretation of common DCS 1800 / PCS 1900 ARFCN numbers when transmitted on other bands (Rel 4)	Nokia	Revised
GP-010379	CR 45.005-008 rev 2 Interpretation of common DCS 1800 / PCS 1900 ARFCN numbers when transmitted on other bands (Rel 4)	Nokia	Withdrawn
GP-010201	CR 45.005-009 Further alignment of PCS 1900 RF requirements with DCS 1800 (Rel 4)	Nokia	Rejected
GP-010223	CR 45.005-010 Correction of Power vs Time mask for 8-PSK (Rel 4)	Ericsson	Approved
GP-010225	CR 45.005-011 Definition of MXM systems missing (Rel 4)	Ericsson	Revised
GP-010299	CR 45.005-011 rev 1 Definition of MXM systems missing (Rel 4)	Ericsson	Approved
GP-010227	CR 45.005-012 Testing of Intra BSS intermodulation attenuation requirements for MXM 850 BSS (Rel 4)	Ericsson	Approved
GP-010286	CR 45.005-013 Alignment of AM-suppression requirements for MXM 1900 BTS with PCS 1900 BTS and MXM 850 BTS with GSM 850 BTS (Rel 4)	Ericsson	Approved
GP-010336	CR 45.005-014 Mixed Mode Systems Intermodulation Attenuation (R99)	Lucent Technologies	Approved
GP-010395	CR 45.005-015 Interpretation of common DCS 1800 / PCS 1900 ARFCN numbers when transmitted on other bands (Rel 4)	Ericsson	Revised

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GP-010442	CR 45.005-015 rev 1 Interpretation of common DCS 1800 / PCS 1900 ARFCN numbers when transmitted on other bands (Rel 4)	Ericsson	Approved
GP-010058	CR 45.008-009 Handling of missing gamma values (Rel 4)	Nokia	Approved
GP-010098	CR 45.008-010 Removal of Anonymous Access (Rel 4)	Ericsson	Approved
GP-010106	CR 45.008-011 Measurements during polling response transmission (Rel 4)	Ericsson	Approved
GP-010127	CR 45.008-012 Fine tuning of GPRS cell reselection (Rel 4)	Motorola	Approved
GP-010204	CR 45.008-013 Multi-RAT measurements (Rel 4)	Nokia	Approved
GP-010243	CR 45.008-014 Addition of TCH/WFS (Rel 5)	Nokia	Approved
GP-010283	CR 45.008-015 3G Cell reselection with only frequency information (Rel 4)	France Telecom	Revised
GP-010377	CR 45.008-015 rev 1 3G Cell reselection with only frequency information (Rel 4)	France Telecom	Approved
GP-010381	CR 45.008-016 Addition of GSM blind handover requirements (Rel 4)	Nortel Networks	Revised
GP-010439	CR 45.008-016 rev 1 Addition of GSM blind handover requirements (Rel 4)	Nortel Networks	Approved
GP-010035	CR 48.008-016 Clarification of Asymmetry indication (Rel 4)	Nokia	Revised
GP-010318	CR 48.008-016 rev 1 Clarification of Asymmetry indication (Rel-4)	Nokia	Approved
GP-010037	CR 48.008-017 Usage of Handover Performed message over MAP/E (Rel 4)	Nokia	Revised
GP-010312	CR 48.008-017 rev 1 Usage of Handover Performed message over MAP/E (Rel-4)	Nokia	Revised
GP-010408	CR 48.008-017 rev 2 Usage of Handover Performed message over MAP/E (Rel-4)	Nokia	Approved
GP-010068	CR 48.008-018 Circuit pools for ECSD (Rel 4)	Siemens	Approved
GP-010112	CR 48.008-019 Use of SAI in Handover Performed after GSM to UMTS handover	Ericsson	Withdrawn
GP-010167	CR 48.018-020 Rate of transmission of flow control packets on the Gb interface (Rel 4)	Siemens	Revised
GP-010310	CR 48.018-020 rev 1 Rate of transmission of flow control packets on the Gb interface (Rel-4)	Siemens	Withdrawn

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GP-010174	CR 48.018-021 Alignment Octet/LLC-PDU re-union and spare values clarification (Rel 4)	Vodafone	Revised
GP-010403	CR 48.018-021 rev 1 Alignment Octet/LLC-PDU re-union (Rel-4)	Vodafone	Approved
GP-010314	CR 48.018-022 Corrections to 48.018 (Rel-4)	Motorola	Approved
GP-010415	CR 48.018-023 Service based' Network initiated Cell Change Order to UTRAN (R99)	Vodafone, T-Mobil	Approved
GP-010088	CR 51.010-1-067 Clause 31.4.2.1.1.3. Correction to testcase expected sequence.	TSG GERAN WG4	Approved
GP-010088	CR 51.010-1-068 Clause 31.4.3.3. Correction to testcase procedure.	TSG GERAN WG4	Approved
GP-010085	CR 51.010-1-069 Clauses 41.2.3.1 and 41.2.3.2 on IA Rest Octets discrepancy.	TSG GERAN WG4	Approved
GP-010088	CR 51.010-1-070 Clause 31.4.4.1.1 – Auto-Retrieval of held calls	TSG GERAN WG4	Approved
GP-010088	CR 51.010-1-071 Series 31.4.4.3 - Incorrect call states in the Test Procedure and Expected Message Sequence	TSG GERAN WG4	Approved
GP-010088	CR 51.010-1-072 Test case 31.3.1.2.2.2 – Modifications to Test Procedure and Expected message sequence	TSG GERAN WG4	Approved
GP-010088	CR 51.010-1-073 Test Case 28.4 – Missing Expected Message Sequence	TSG GERAN WG4	Approved
GP-010088	CR 51.010-1-074 Addition of new PIXIT Statement to annex A for section 28 tests	TSG GERAN WG4	Approved
GP-010087	CR 51.010-1-075 Introduction of PCS 1900 into section 26.14	TSG GERAN WG4	Approved
GP-010087	CR 51.010-1-076 Introduction of PCS 1900 into section 27	TSG GERAN WG4	Approved
GP-010087	CR 51.010-1-077 Introduction of PCS 1900 into section 35	TSG GERAN WG4	Approved
GP-010087	CR 51.010-1-078 Corrections for PCS 1900 in sections 26.6.3.x and 26.6.18	TSG GERAN WG4	Approved
GP-010088	CR 51.010-1-079 Test case 31.4.5 - Incorrect TI for Return Result Component.	TSG GERAN WG4	Approved
GP-010088	CR 51.010-1-080 Incorrect numbering of sequence of TC31.4.4.1.1.1	TSG GERAN WG4	Approved
GP-010088	CR 51.010-1-081 Incorrect call auxillary state in TC31.4.4.3.2	TSG GERAN WG4	Approved
GP-010087	CR 51.010-1-082 Inclusion of PCS 1900 in HSCSD tests section 13 and 14	TSG GERAN WG4	Approved

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GP-010087	CR 51.010-1-083 Inclusion of PCS 1900 in GPRS tests section 13 and 14	TSG GERAN WG4	Approved
GP-010085	CR 51.010-1-084 SS Needs To Send GMM INFORMATION In-Order That MS Deletes Old P-TMSI In 44.2.3.1.1.	TSG GERAN WG4	Approved
GP-010085	CR 51.010-1-085 41.2.8.1.2 Uplink Data Transfer Should Be Terminated by PACKET UPLINK ACK/NAK With FAI Set.	TSG GERAN WG4	Approved
GP-010085	CR 51.010-1-086 44.2.5.2.1 Test Method (Expected Sequence) Correction	TSG GERAN WG4	Approved
GP-010088	CR 51.010-1-087 Incorrect transaction identifier TI used at step 9 + 10 in TC31.4.4.2	TSG GERAN WG4	Approved
GP-010085	CR 51.010-1-088 Updates to the Applicability table	TSG GERAN WG4	Approved
GP-010085	CR 51.010-1-089 Heading numbering error in one LLC test	TSG GERAN WG4	Approved
GP-010085	CR 51.010-1-090 Paging on PCCCH for GPRS service with IMSI	TSG GERAN WG4	Approved
GP-010085	CR 51.010-1-100 Wrong specific message content deleted.	TSG GERAN WG4	Approved
GP-010085	CR 51.010-1-101 Steps added in the Expected sequence	TSG GERAN WG4	Approved
GP-010085	CR 51.010-1-102 44.2.3.2.5.3.2 Test Method (Expected Sequence) Corrections.	TSG GERAN WG4	Approved
GP-010086	CR 51.010-1-103 GSM 700 and GSM 850 to 51.010 section 12	TSG GERAN WG4	Approved
GP-010086	CR 51.010-1-104 GSM 700 and GSM 850 additions into 51.010 section 15	TSG GERAN WG4	Approved
GP-010086	CR 51.010-1-105 GSM 700 and GSM 850 additions into 51.010 section 16	TSG GERAN WG4	Approved
GP-010086	CR 51.010-1-106 GSM 700 and GSM 850 additions into 51.010 section 17	TSG GERAN WG4	Approved
GP-010086	CR 51.010-1-107 GSM 700 and GSM 850 additions into 51.010 section 18	TSG GERAN WG4	Approved
GP-010086	CR 51.010-1-108 GSM 700 and GSM 850 additions into 51.010 section 19	TSG GERAN WG4	Approved
GP-010086	CR 51.010-1-109 GSM 700 and GSM 850 additions into 51.010 section 20	TSG GERAN WG4	Approved
GP-010086	CR 51.010-1-110 GSM 700 and GSM 850 additions into 51.010 section 21	TSG GERAN WG4	Approved
GP-010086	CR 51.010-1-111 GSM 700 and GSM 850 additions into 51.010 sections 22-24	TSG GERAN WG4	Approved

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GP-010084	CR 51.010-1-112 Addition of EGPRS Usable receiver input range test to the applicability table	TSG GERAN WG4	Approved
GP-010084	CR 51.010-1-113 EGPRS Usable receiver user input range test	TSG GERAN WG4	Approved
GP-010085	CR 51.010-1-114 LLC testcases 46.1.2.2.2.3, 46.1.2.6.2, 46.1.2.7.6 corrections	TSG GERAN WG4	Approved
GP-010085	CR 51.010-1-115 Macro for downlink TBF establishment (PBCCH not present)	TSG GERAN WG4	Approved
GP-010085	CR 51.010-1-116 Section 43 numbering correction	TSG GERAN WG4	Approved
GP-010085	CR 51.010-1-117 Checking only the number of SABM retransmissions	TSG GERAN WG4	Approved
GP-010085	CR 51.010-1-118 GPRS RLC Test Cases section 43	TSG GERAN WG4	Approved
GP-010085	CR 51.010-1-119 Wrong reference to table 42.2.1.1	TSG GERAN WG4	Approved
GP-010087	CR 51.010-1-120 Corrections for PCS 1900 in sections 15 to 24	TSG GERAN WG4	Approved
GP-010086	CR 51.010-1-121 GSM 700 and GSM 850 additions into 51.010, sections 00 –10	TSG GERAN WG4	Approved
GP-010086	CR 51.010-1-122 GSM 700 and GSM 850 additions into 51.010 section 13	TSG GERAN WG4	Approved
GP-010088	CR 51.010-1-123 TC 31.2.1.7.1.1 - Forwarded-to mobile subscriber side. Corrections of Conformance Requirements, Test Purpose and Method of test (incl. Expected Sequence)	TSG GERAN WG4	Approved
GP-010087	CR 51.010-1-124 Introduction of PCS 1900 into section 26.12	TSG GERAN WG4	Approved
GP-010087	CR 51.010-1-125 Introduction of PCS 1900 into section 26.15	TSG GERAN WG4	Approved
GP-010087	CR 51.010-1-126 Introduction of PCS 1900 into section 26.16	TSG GERAN WG4	Approved
GP-010088	CR 51.010-1-127 Test Case 28.2 – Missing Test Procedure	TSG GERAN WG4	Approved
GP-010086	CR 51.010-1-128 GSM 700 and GSM 850 additions into 51.010 section 14	TSG GERAN WG4	Approved
GP-010087	CR 51.010-1-129 Introduction of PCS 1900 into section 31	TSG GERAN WG4	Approved
GP-010087	CR 51.010-1-130 Introduction of PCS 1900 into section Annex	TSG GERAN WG4	Approved
GP-010087	CR 51.010-1-131 Clause 26.9. Corrections for PCS 1900 emergency calls	TSG GERAN WG4	Approved
GP-010088	CR 51.010-1-132 Clause 28.1. Removal of references to section 29.	TSG GERAN WG4	Approved

Tdoc	Title	Source	Status
GP-010088	CR 51.010-1-133 Test case 31.4.2.1.4, 31.4.2.2.1 and 31.4.4.1.2.2 and 31.4.3.5 - Incorrect auxiliary call states in the Test Procedure and Expected Message Sequence.	TSG GERAN WG4	Approved
GP-010088	CR 51.010-1-134 Section 30 - Audio Testing Specification	TSG GERAN WG4	Approved