

tsg geran Tsg sam4

A MORELA

TSG-GERAN Report to TSG-SA#14 TSG-GERAN Chairman

Niels Peter Skov Andersen Motorola



Tdoc SP-010734

TSG GERAN work area (1/2)



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TSG <u>G</u>SM/<u>E</u>DGE <u>R</u>adio <u>A</u>ccess <u>Network</u> (TSG-GERAN)

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

TSG GERAN work area (2/2)



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

Organisation of TSG GERAN 3 (1/4)

A GLOBAL INITIATIVE TSG GERAN TSG SAF14

TSG GERAN Convenor: Niels PS Andersen, Motorola Vice Chair: Marc Grant, SBC Vice Chair: Michael Färber, Siemens **TSG GERAN WG1 TSG GERAN WG2 Protocol aspects** Radio aspects Chair: Niels P S Andersen, Motorola Chair: José Luis Carrizo Martínez, Vodafone **TSG GERAN WG3 TSG GERAN WG4 Terminal Testing - Radio Aspects** Base Station Testing and O&M Chair: Vacant Chair: Ilya Gonorovsky, Motorola **TSG GERAN WG5** Terminal Testing - Protocols Aspects Chair: Arnold Rönbeck; AU System

Organisation of TSG GERAN (2/4)

TSG GERAN TSG SA#14

TSG GERAN WG1 – Radio Aspects

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

TSG GERAN WG2 – Protocol Aspects

- Chairman: José Luis Carrizo Martínez, Vodafone
- GERAN Radio Layer 2 specification
- GERAN Radio Layer 3 RR specification
- A interface specification, Gb interface specification
- Internal GERAN interface specifications such as Abis

Organisation of TSG GERAN (3/4)



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TSG GERAN WG3 – Base Station Testing and O&M

Chairman: Vacant

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

Organisation of TSG GERAN (4/4)



TSG GERAN TSG SA#14

- TSG GERAN WG4 Terminal Testing Radio Aspects
- **Chairman: Ilya Gonorovsky**
- Conformance test specifications for testing of Lower layers including RLC/MAC
- TSG GERAN WG5 Terminal Testing Protocol Aspects

Chairman: Arnold Rönbeck, AU System

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





TSC CERAN TSC SA#14

- Lower layers: Only simple corrections and clarifications
- "Early Classmark Sending option" indication missing on PBCCH
 - R97/R98: Multiple options for the terminals Issue documented in GSM 09.95
 - R99→: Use of early classmark sending indication (ECSC flag) introduced in PSI2 on PBCCH
 The 3G ECSR flag was also introduced





TSC CERAN TSC SA#14

- Agreement on Release and Feature markers obtained with TSG CN (WG1)
- Version of protocol not increased for Rel 4
- One feature packet introduced for Release 4
 - Extended uplink TBF
 - NACC
 - Packet SI/PSI Status

Progress on support of I_u



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RRC agreement on most concepts

- PBCCH mandatory for I_u mode
- PBCCH capacity sufficient for Release 5(6)
- Paging concepts agreed
- I_{u-cs} issue of service awareness still open RLC/MAC
- Update exisitng specification
- Generally good progress

LCS



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- Numerous correction to Release 98/99/4
 agreed
- LCS for GPRS (G_b mode)
 - Complete except for a few smaller issues
- LCS for I_u operation
 - Stage 2 updated
 - Work ongoing on stage 3

3G–2G Interworking



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- Dual-mode terminal monitoring of neighbour cells
 - Clarification of number of cells and frequencies to monitor
 - Checking of understanding of UTRAN cell monitoring before next meeting to verify specification
- Backwards compatibility problem in SI2ter messages fixed
- Transparent container changes agred and coordinated with TSG RAN WG2

3G–2G Interworking



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- One new potential problem
 - Lack of requirements for after handover to resend Non Access Stratum messages awaiting uplink transmission
 - Uplink NAS message loss during inter-system Handover
 - Duplication avoidance functionality compromised
 - Signalling between terminal and MSC interrupted
 - Downlink signalling messages could also be lost
 - upon a UTRAN to GSM handover

Support for codecs



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- Performance requirement for NB-AMR Release 98→ questioned
 - Contribution received claiming errors in the simulations used to produce the requirement
 - Request to correct the results
 - Impact would in several case corresponds to 2 dB relaxation. In some cases even more
 - Next TSG GERAN WG1 to assess the full impact of the problem
- Further correction of RATSCCH
- WB-AMR stable (RATSCCH still missing)
- Half Rate 8-PSK specified for NB-AMR

Testing



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- Work plan for LCS testing updated
- Concern that LCS requirements in are to tight for testing
- Suggestion for A-GPRS accuracy testing however no core specification requirements exists
- Numerous smaller corrections to GPRS and EDGE
- There is an urgent need to start work on testing for the GSM/EDGE RAN Evolution

Release 5 A/Gb mode



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- Extension of NACC to work for Inter BSC/RNC
 - Changes to 3GPP TS 48.018 reviewed
 - Error handling needs further review
- I_u flexibility
 - Detailed discussions delayed due to work load

GERAN Release 5, 6 etc (1/3)



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- New high multislot classes introduced
- Discussions with TSG SA WG1 on support
 of codecs
 - TSG GERAN suggested for I_u mode operation of GERAN that EFR should be mandatory to allow reuse for legacy transceiver But S1 only included AMR in their specifications
- For CS data services GERAN legacy transceivers migh only support n*9.6 kbit/s data rates – Lowest data rate supported over I_u is 14.4 kbit/s
- Might also cause problem for UTRAN-GSM handover, e.g., for transparent CS Data service

GERAN Release 5, 6 etc (2/3)



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- Technical Report on support of optimised voice being drafted
- Integrated VoIP application not requiring header regeneration assumed for Optimised Voice
- Requirements for Optimised Voice not fully clear
- Call set-up and in call signalling is within the bandwidth of the actual call bandwidth has been assumed

GERAN Release 5, 6 etc (3/3)



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- GERAN still missing full information about SIP procedures – critical for time schedule for signalling bearers (FACCH and SACCH equivalents)
- GERAN regards SIP compression as necessary to obtain reasonable call set-up times
- GERAN has reviewed MBMS stage 1
- Work plan TSG GERAN updated (see attachment)

Lists of CR status at TSG-GERAN #06 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 od > (40 + ab) 0 od

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

e.g

05.08 => 45.008

Future TSG GERAN Plenary meetings



a global initiative TSG GERAN TSG SA#14

TSG GERAN #08 TSG GERAN #09 TSG GERAN #10 TSG GERAN #11 TSG GERAN #12 4-8 February 2002, Rome 15 - 19 April 2002, USA 24 - 28 June 2002, ?? 26 - 30 August 2002, ?? 18 - 22 November 2002, ??

3GPP TSG GERAN Meeting No. 7 Cancun, Mexcio 26th-30th November 2001

Source: Rapporteur

3G TR 50.099 V0.13 (2001-11)

Project schedule

GSM/EDGE RAN (GERAN) Project scheduling and open issues for GERAN



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Foreword

New due to the change to 3GPP

Scope

The purpose of this document is to describe the schedule of the GSM/EDGE radio access network (GERAN) standardisation process and to view it's current state and open issues that are still under discussion. It also lists the new standards and necessary amendments to the 3GPP specifications for the technical realisation of the functions. GERAN is a term used to describe a GSM and EDGE based 200 kHz radio access network. The GERAN is based on GSM/EDGE release 99, and covers all new features for GERAN R4 and subsequent releases, with full backward compatibility to previous releases. This document focuses in the standardization activities around the issues of:

- IP Multimedia (real-time end-to-end IP)
- Alignment with UMTS/UTRAN architecture, bearer services and QoS handling
- Spectrum efficiency and performance improvements
- Specification flexibility for future enhancements

which are seen as the essential parts of the GERAN and have been identified by TSG GERAN. Other activities are handled in separate project plans and are not covered here.

Abbreviations

- EDGE Enhanced data rates for GSM Evolution
- GERAN GSM/EDGE radio access network

COMPACT Deployment of services in spectrum below 1 MHz

Support of specification work

This document is a 'living document' and permanently updated by the editor. Proposals for change shall be forwarded to editor (direct contact details are on the last page), where the latest version can be obtained at any time. The specification rapporteurs should make sure that this document always reflects the latest status of work.

Latest versions of the material are available to interested parties within 3GPP. Specification and Change Request rapporteurs should ensure the latest versions of their material is made available for review and comment by the following mechanisms:

3GPP FTP Server (ftp://ftp.3gpp.org/TSG_GERAN/TSG_GERAN/AD-HOCs/Releases%204-5/):

• GERAN adhoc meeting reports, most input and all output documents from the former ad-hoc.

General

The GERAN work item(s) will provide a platform to provide the four UMTS bearer classes: conversational, streaming, interactive and background. This includes IP end to end voice and multimedia services. According to the current plans GERAN will be standardized in two releases:

Release R5:

• IP Multimedia (real-time end-to-end IP)

- Support for simultaneous, multiple radio access bearers with different QoS profiles
- New protocol stack to support the four radio access bearer classes
 - conversational (including optimized voice service using AMR)

- streaming
- interactive
- background
- Development / adaptation of a PDCP-based protocol
- Development / adaptation of a RLC/MAC protocol, including an evaluation of:
 - Separation of the RLC and MAC
 - Fast resource allocation procedures
- Optimized physical layer design for radio bearers (with a priority on voice for existing and future AMR modes)
- Development of a control plane protocol stack
 - Hand over for the PS domain
 - Design of new control channels for hand over signalling
 - Design of new hand over procedures
 - Design of new messages and measurements
 - Apart from the above radio interface related changes, hand over has to be supported in the remainder of the network and is RAN controlled.
 - Development of other RR signaling procedures and support for MM
 - e.g. on attach and access procedures, as well as broadcast messages.
- Alignment with UMTS/UTRAN architecture, bearer services and QoS handling
 - The same type of services as offered by UTRAN should be offered with GERAN
 - Alignment of bearer classes with UTRAN
 - Alignment of QoS mechanism with UTRAN.
 - Common RAN CN interface and functional split for UTRAN and GERAN
 - Support of inter system hand over
- Spectrum efficiency and performance improvements
- Specification flexibility for future enhancements

Release R6:

It is proposed to perform a feasibility study during 2000/2001 for performance enhancements (e.g. statistical multiplexing, interference cancellation, space time coding).

Requirements

The radio requirements for GERAN have been approved and are attachted to appendix 2.

Functional description

The concept proposal for the GERAN is available as a first draft in 43.051, the GERAN stage 2 description. For normative information review the specifications named in the sections below.

Technical realisation and amendments

Documentation Structure Overview

With the introduction of GERAN the bearer concept of UMTS is being introduced. Therefore GERAN will be introduced mainly in the existing specifications and stage descriptions. When it comes to the protocol layers and connection to the core network a few new specifications might be necessary to be introduced.

Phased Introduction of Capability

In order to allow a fast introduction of GERAN in the specifications, GERAN has been split in two phases. Release R5 will establish the new bearer classes and provide basic voice over IP capability, release R6 will provide larger performance enhancements.

Work item status and approval time frame

In the TSG GERAN #1 meeting, refinded on the TSG GERAN #3 and TSG GERAN #4 meeting the GERAN work has been split in several work items (TDOC numbers marked light blue from TSG GERAN #1, #2 and #3)

Feature	Building	Work task	Date of	Status
Evolution of transport (UTRAN Feature)	Evolution of transport in UTRAN and GERAN	 Addition of transport mechanisms other than ATM for Iu Identification of alternative transports Specification of those alternative transports 	Mar 2002?	Ongoing
GERAN/UTRAN interface evolution 1 GP-000481	Evolution of lu ps	 Identification of GERAN requirements on lu ps Update of specifications 	Nov 2001 Mar 2002	Ongoing
GERAN/UTRAN interface evolution 2 GP-010417	Evolution of Iu cs GP-000430	 Identification of GERAN requirements on lu cs Update of specifications 	Nov 2001 Mar 2002	Ongoing
Low chip rate TDD option (UTRAN)	Low chiprate TDD interworking with GERAN GP-000432	 Handover and Cell Selection / Reselection to UTRA 1.28Mcps TDD 		Ready for R4. Closed
GERAN improvements 1 GP-000433	Gb over IP GP-000434	 IP-fication of Gb Concept Changes to 08.16, 08.18 		Ready for R4. Closed
GERAN improvements 2 GP-012812	Gb enhancements GP-000436	Intra BSC NACC Concept Changes in 03.64 Changes in 04.60 Changes in 44.008		Ready for R4. Closed
	MS conformance test for Intra BSC NACC GP-012811	Changes in 51.010	Apr 2002	Not started
GERAN improvements 3 GP-010418	Evolution of the transport for A GP-010910	 Definition of a new A/Ater Interface Transport Layer option based on the lu Interface Transport Layer Adaptation of the Layer 3 BSSMAP procedures as required 	Apr 2002	Ongoing
GERAN Improvements 4 GP-010363	Gb enhancements 2 GP-010363	 Stage 2 Stage 3 (changes in 44.060) Definition of enhanced countdown procedure Definition of enhanced TBF release procedure 		Ready for R4. Closed
GERAN Inter BSC NACC improvements over the Gb Interface GP-012313	Modificiation of Gb protocols for GERAN Inter BSC NACC over the Gb interface GP-012314	Stage 3 (changes to) • 48.018	Apr 2002	Ongoing

	Modification of core network protocols for GERAN Inter BSC NACC for Gb interface GP-011877	 Stage 2 Concept 23.060 change Definition of Inter BSC NACC Stage 3 (changes to) 29.060 	Nov 2001 Apr 2002	
GERAN support for IP multimedia GP-010420	GERAN Header adaptation GP-010421	 Header adaptation: Definition of compression and removal modes for PDCP protocol Conceptual description in stage 2 Necessary changes on stage 3 regarding header removal 	Sept 2000 Oct 2001 Mar 2002	Ongoing
	GERAN Radio access bearer design for IP multimedia GP-010422	 MuM control signalling for conversational multimedia services. Identification of requirements Necessary modifications due to SIP 	Feb 2002 Jun 2002	Ongoing
	GERAN MS Conformance test for support of IP multimedia GP-010424	MS test	Jun 2002	Not started
	GERAN BTS Conformance test for support of IP multimedia GP-010425	BTS test	Jun 2002	Not started
Alignment of 3G	GERAN user /	Alignment with UMTS bearer concept		Ongoing
functional split and lu	control plane	Stage 2	Jun 2001	
GP-012757	GP-012756	Adoption of the UTRAN PDCP Development of RLC / MAC	Dec 2001 Apr 2002	
		Development of GERAN RRC	Jun 2002	
		Ciphering and integrity protection concept paper	Feb 2002	
		Multiple TBF or equivalent Concept paper	Feb 2002	
		Paging concept	Oct 2001	
		Dedicated physical subchannels. Includes traffic and control channels	Nov 2001	
		Iu support and broadcast concept	Feb 2002	
		 Impact of using RLC instead of LAPDm concept 	Feb 2002	
		Contention resolution, mobile- station identity, and access concept	Nov 2001	
		PDCP concept	Feb 2002	
		Downlink delayed TBF release	Feb 2002	
		Add transparent RLC Concept		
		Handover concept	Feb 2002	

	lu ra interface	 Physical layer alignment with UMTS bearer concept Control channels in 45.003 Receiver performance in 45.005 for PDTCH/TCH and control channels 	Jun 2001	Orgaing
	GP-010428	Identification of requirements Stage 2 Adoption of relevant parts from lu r Complementation with GERAN specifics New stage 3	Αμί 2002	Origonity
		Inter BSS-RNS interface Identification of requirements Stage 2 Adoption of relevant parts from lu r Complementation with GERAN specifics New stage 3	Apr 2002	Ongoing
	Voice over GERAN PS and CS concept GP-010432	 Voice over GERAN PS and CS concept Architecture for A, lu cs and lu ps Handover RTP payload 	Nov 2001	Ongoing
	GERAN MS Conformance test for GERAN interface evolution GP-010434	MS test	Dec 2002	Not started
	GERAN BTS Conformance test for GERAN interface evolution GP-010435	BTS test	Dec 2002	Not started
Enhanced Power Control GP-012748	Realization of Enhanced power control and signaling support GP-012749	Concept Changes to 43.051 Changes to 44.004 Changes to 44.018 Changes to 48.058 Changes to 45.001 Changes to 45.002 Changes to 45.003 Changes to 45.008	Nov 2001	Closed for Rel 5
	GERAN MS Conformance test for Enhanced Power Control GP-012750	MS test	Jun 2002	Not started
	GERAN BTS Conformance test for Enhanced Power Control GP-012751	BTS test	Jun 2002	Not started
8PSK AMR HR GP-012752	Definition of channel coding, performance requirements and signaling support GP-012753	 Concept Changes to 44.018 Changes to 45.001 Changes to 45.002 Changes to 45.003 Changes to 45.005 Changes to 24.008 Changes to 48.058 	Feb 2002	Ongoing
	GERAN MS Conformance test for 8PSK HR GP-012754 GERAN BTS Conformance test for	MS test BTS test	Jun 2002	
	8PSK HR GP-012755			

GERAN	CERAN	- Concept	Oct 2001	Ongoing
enhancements for streaming services	enhancements for streaming services	 Concept RLC protocol enhancement (SDU Discard) 	Nov 2001	Ongoing
GP-010430	GP-010430			O a sual a su
enhancements for streaming services 2 GP-010429	enhancements for streaming services 2 GP-010429	Stage 2 Stage 3 • RLC PDU formats • MAC header	Jun 2001 Apr 2002	Ungoing
700 MHz spectrum support GP-000449	GERAN support for the 700 MHz band	 Signaling support Physical layer definitions Receiver performance and RF budget 		Ready for R4. Closed
	GERAN MS Conformance test for 700 MHz band GP-000451	MS test	Jun 2001	Closed
	GERAN BTS Conformance test for GERAN interface evolution GP-000452	BTS test	Jun 2001	Ongoing
Real Time QoS for packet services including VoIP (UTRAN)	HOs: maintenance of real-time QoS while moving between cells in the PLMN including inter- SGSN change and SRNS relocation or possibly other mechanisms (UTRAN) GP-010431	 Handover for the packet switched domain Stabile RT handover report 25.936 including header removal Update of stage 2 Update of relevant stage 3 specs 	Nov 2001	Closed (part of GERAN user / control plan now)
Wideband telephony services (UMTS)	Support of WB AMR in GERAN GP-000453 GERAN MS Conformance test for WB AMR GP-000454	 GMSK and 8PSK WB FR / HR support Channel coding in 45.003 Signalling for A interface Signalling for lu Link adaptation in 45.009 Receiver performance in 45.005 MS test 	Jun 2001 Nov 2001 Feb 2002 Jun 2002	Ongoing Not started
	GERAN BTS Conformance test for WB AMR GP-000455	BTS test	Jun 2002	Not started
Location service (UMTS)	LCS interoprability aspects to GERAN GP-000456	Co-ordinated development of GSM LCS Phase 2 and UMTS LCS, S2 and GERAN		Ongoing
	Location service for GERAN R4 GP-010932	 Work for aligning LCS R4 CN and GERAN 		Ready for R4. Closed

	Location Services (LCS) for GERAN in A/Gb Mode GP-011925	 GERAN LCS Stage Two Gb interface support for LCS L3 protocol support for LCS Stage 3 specifications GERAN LCS stage 2 	August 2001(#6) April 2001(#4) Stage 2-	GERAN LCS Stage 2 complete Gb mode CRs ready Stage3 specifications ready. Ongoing due to few open issues.
	GP-011926	Iu interface support for LCS	Feb. 2002 Stage 3 –	2 IU mode 50% complete
		• Tur-g interface support for LCS	April 2002	lug-r is FFS
		RRC protocol support for LCS		Stage 3 specifications
		Additional impacts on Broadcast of LCS data on packet channels		RRC protocol
		Stage 3 specifications		concept was discussed in GERAN(2)bis#6
				Broadcast LCS data for IU mode: at GERAN #7 discussed and agreed that the capacity exists on the PBCCH to accommodate LCS Broadcast assistance data.
	GERAN MS Conformance test for LCS	Develop LCS MS test case work plan (Release 98/99/4)	August 2002 (#11)	Work plan agreed: GERAN #7
	GP-000458	Develop LCS MS test cases		Test case development ongoing.
	GERAN BTS Conformance test for LCS GP-000459	 Develop LCS BTS test case work plan (Release 99/99/4) Develop LCS BTS test cases 	GERAN #12 November 2002	Work has not started
Uplink TDOA feasibility study GP-012794	Uplink TDOA feasibility study GP-012794	Performing of a feasitibility study	Apr 2002	Started at GERAN #7

Concept papers

In order to prepare for the CRs planned below concept papers in different areas are established. Companies have been assigned to work with the issues in order to drive things forward.

Concept paper	Responsible company
Multiple TBF or equivalent	Siemens
Paging	Lucent
Dedicated physical subchannels. Includes traffic and control channels	Nokia
How do we indicate lu-mode support in a cell? How does	Ericsson
the mobile station select mode? Broadcast message	
content?	
SDU discard	Nokia
Impact of using RLC instead of LAPDm	Nokia
Contention resolution, mobile-station identity, and	Alcatel
access	
Ciphering and integrity protection	Nokia
PDCP support. Provide the same services as UTRAN	Ericsson

RLC and MAC	
Downlink delayed TBF release	Ericsson
Add transparent RLC	Lucent
Handover	Nokia
lu rg	Vodafone
Codec renegotation concept for GERAN	No volunteer yet
Support for ECSD channel coding in RLC/MAC	No volunteer yet

New Specifications

GSM	TDOC	CR	Subject	CR	TSG	Completi
No.				Comp.		on Date
				Resp.		
43.051			GERAN overall description	S.	GERAN	Nov 00
				Gillaume		
				(Nokia)		
43.059			Functional Stage 2 Description of Location	М.	GERAN	April 2001
			Services in GERAN	Livingsto		-
				n (Nokia)		
44.118			GERAN RRC	S. Hamiti	GERAN	June 2002
50.099		TR	GERAN project schedule and open issues	F. Mueller	GERAN	Dec 2002
XX.XXX		TR	Optimized speech in the IMS domain	В.	GERAN	?
				Guarino		
~	Approved	ਹੈ Set on hold	→ #29 Send to SMG #29 CR0000A000	CR has bee	n cancelle	d

Change Requests (GERAN release R5)

Here all change requests being handled on TSG GERAN level are listed below. Note only CRs providing new functionality are listed. Correction CRs from previous releases are not listed.

GSM	TDOC	CR	Subject	CR	STC	Completi	Status
NO.				Comp.		on Date	
43 051	GP-010041	001	Editorial corrections of sections 2 and 3	Resp.	GERAN	#3	
45.001	GP-010042	002	Corrections of section on GERAN architecture		GERAN	#3	
	GP-010044	003	Changes to clause 6		GERAN	#3	
	GP-010045	004	Clarification wrt TFI unicity		GERAN	#3	
	GP-010050	005	Definition of the MAC functions		GERAN	#3	
	GP-010051	006	Editorial corrections of sections 2 and 3		GERAN	#3	
	GP-010137	007	RLC/MAC for ECSD channels		GERAN	#3	
	GP-010220	008	Change of MAC modes into MAC states; corrections related to PDTCH on DPSCH		GERAN	#3	
	GP-010221	009	Clarification of RRC functions		GERAN	#3	
	GP-010319	010	Revision of working assumption on ciphering		GERAN	#3	
	GP-010891	011R1	TFI, RBid, DPSCH		GERAN	#4	
	GP-010890	012R1	Working assumptions for RRC design		GERAN	#4	
	GP-010632	013	Introduction of RRC connection mobility assumptions for GERAN		GERAN	#4	
	GP-010678	014	014 TBF Establishment and Reconfiguration on DPSCH – Withdrawn		GERAN	#4	
	GP-010883	015R1	Clarifications and corrections to section 6.3 and Annex C		GERAN	#4	
	GP-010605	016	Removal of physical layer muxing		GERAN	#4	
	GP-010887	017R1	RLC SDU Discard		GERAN	#4	
	GP-010762	018	Removal of the QR		GERAN	#4	
	GP-010603	019	Inclusion of the decision of adopting RLC/MAC as layer 2 on the control plane		GERAN	#4	
44.008	GP-010875	010R1	Introduction of AMR-WB		GERAN	#3	
	GP-010876	011R1	Circuit pools for AMR-WB		GERAN	#3	
44.018	GP-010880	027R1	Introduction of AMR-WB		GERAN	#4	
44.060	GP-010680	023	Paging Procedures for Iu Mode		GERAN	#4	
	GP-010754	029	Section 8: Inclusion of GERAN		GERAN	#4	
	GP-010755	030	RLC SDU Discard		GERAN	#4	
45.001	GP-010240	001	Addition of TCH/WFS		GERAN	#3	
45.002	GP-010241	007	Addition of TCH/WFS		GERAN	#3	
	GP-010761	013	Mapping of HR 8PSK channels		GERAN	#4	
45.003	GP-010130	044	Coding and Interleaving Proposal for O-FACCH/F and O-FACCH/H		GERAN	#3	
	GP-010333	A046R1	Channel coding for TCH/WFS		GERAN	#3	
	GP-010760	002	Channel coding for O-FACCH		GERAN	#4	
45.005	GP-010133	007	Introduction of new AMR speech channels and control channels on Half-rate channels with 8-PSK modulation		GERAN	#3	

45.008	GP-010243	014	Changes to link adaptation for TCH/WFS	GERAN	#3	
45.009	GP010332	A017	Changes to link adaptation for TCH/WFS	GERAN	#3	
48.058	GP-010938	A059R2	Changes due to WB-AMR	GERAN	#4	
~	Approved	ੀ Set	on hold CR0000A000 CR has been cancelled			

Approved r

Possible CRs required (GERAN release R5)

The darkened fields indicate, that these CR's are already handled and approved by the responsible TSG. The textured fields indicate, that the work on these CRs have been started on workshop or TSG level.

Note, this list is a first draft and has to be reviewed in more detail.

Name	Title	Resp. TSG	Target date	Resource Names	Changes
CR Stage 2					
23.002	Network architecture	S2			Small: Inclusion of the GERAN architecture
23.003					GERAN identities
23.009	MSC				Handover scenarios
23.034	Highspeed circuit switched data – Stage 2	S2			?
23.060	GPRS stage 2	S2			Handover and cell reselection scenarios
23.221	Architectural requirements for release 5				
43.051	GERAN overall description	SMG2		Nokia, Guillaume Sebire	Major: Protocol modes and mapping on the physical layer, GERAN RAB requirements, sim to 03.60, 03.64 Handover and cell reselection scenarios
23.107	Quality of service, Concept and Architecture	S2			Optimized speech?
23.110	UMTS Access stratum	S2			?
23.821	Service principles?	S2			
33.102	Security architecture	S3			GERAN Mac I, PCU placement
23.228	IMS	S2			Optimized speech
CR Stage 3					
02.07	Mobile station capability				
24.008	Mobile radio interface layer 3 specification	N1			MS RAC, PDP contect activation, class mark, SIP call control
04.04	Layer one: General requirements			Siemens, Jean-Michel Traynard	Update Physical layer primitives
44.018	Mobile radio interface layer 3 specification	GERAN		Nokia, Shkumbin Hamiti	Major: Handover, RR enhancements GERAN Identities
44.060	"General Packet Radio Service; MS – BSS interface; Radio Link Control/Medium Access Control (RLC/MAC) protocol"	GERAN		Lucent, Al Sacuta (MAC)	Major: MAC procedures RLC procedures RR enhancements Block formats New messages Should we have a new spec for RLC, with separated MAC GERAN Identities
25.323	Description of the Packet Data Conversion protocol (PDCP)	R2		Motorola, Sandji Gubde	Minor, if any
25.413	UTRAN lu interface RANAP signalling	R3			Renegotiation for GERAN BSS
25.420- 25.427	UTRAN lu r Interface	R3			Depending on the scope of lu rg the lu r specs have to be modified or alternatively a new spec has to be created
45.001	Physical layer on the radio path General description	GERAN			General GERAN impacts on 05 series
45.002	Multiplexing and multiple access on the radio path	GERAN			Major: New channel combinations and mapping of logical channels
45.003	Channel coding	GERAN		Ericsson, David Bladsjö	Major: Coding, Puncturing and interleaving for new bearers

45.005	Radio receiver performance	GERAN	Ericsson. Mats Samuelsson	Major: Receiver performance due to new coding and puncturing schemes. Need to specify all?
45.008	Radio subsystem link control	GERAN	Nortel, David Choukroun	Minor: New measurements?
05.09	Link Adaptation	GERAN		
11.10	Mobile test spec	GERAN		Testing of RF parameters
11.21	BTS test spec	GERAN		Testing of BTS RF parameters

1) Depending on what is planned for UTRAN Rel 5

Possible CRs required (GERAN release R6)

The darkened fields indicate, that these CR's are already handled and approved by the responsible STC. The textured fields indicate, that the work on these CRs have been started on workshop or STC level

Name	Title	Resp. STC	Target SMG	Resource_Name s	Changes

A-1 GERAN radio requirements

A-1.1 Introduction

The GERAN provides a range of bearer services to mobile and stationary users in a variety of application areas and operating environments. The radio access network will be connected to the third generation core network and will as far as possible extend the services of the fixed networks to mobile users.

This document outlines the overall requirements for GERAN release 2000, which includes all GSM/EDGE work items of release 2000. More specific radio requirements, such as radio requirements for the AMR wide band speech codec, are included as references, if available, and are not discussed in this document. The requirements should be used as guidelines for the design of the radio access network. The requirements should be aligned with the requirements on UTRAN.

A-1.2 Definitions and Abbreviations

A-1.2.1 Definitions

GSM/EDGE RAN GERAN is a term used to describe a GSM and EDGE based 200 kHz radio access network. The GERAN is based on GSM/EDGE release 99, and covers all new features for GSM Release 2000 and subsequent releases, with full backward compatibility to previous releases.

A-1.2.2 Abbreviations

3G	Third Generation
BER	Bit Error Rate
CN	Core network
CS	Circuit Switched
GERAN	GSM/EDGE Radio Access Network
RAN	Radio Access Network
RAB	Radio Access Bearer
RB	Radio Bearer
QoS	Quality of Service
PS	Packet Switched
UMTS	Universal Mobile Telecommunications System
UTRAN	UMTS Terrestrial Radio Access Network

A-1.3 High Level Requirements

The following high level requirements have been initially identified for the GERAN in responsibility of SMG2:

- All bearer classes (conversational, streaming, interactive and background) as defined for UTRAN shall be provided
- The same quality of service handling and radio access bearer service attributes shall be supported as required for UTRAN (as described in TS 23.107). Whether the same range of values of the service attributes as supported by UTRAN shall be supported by GERAN in Release 2000 is for further study
- Support for multiple QoS profiles in parallel shall be provided in the GERAN.

A-1.4 Bearer Definition

A-1.4.1 Radio Access Bearers

GERAN shall provide the same radio access bearers as UTRAN. However, voice is foreseen to be important future service and therefor it seen as important to optimize the conversational radio access bearer class for IP voice services.

It is required to have the GERAN support Adaptive Multi-Rate (AMR) CODEC speech and to be consistent with S2 requirements. Further, it is desired to have the GERAN support Tandem Free Operation (TFO)
services. Further, voice radio access bearers should be provided with quality and delay comparable to current digital cellular systems.

Figure 1 shows the UMTS QoS architecture. As illustrated in the figure the Radio Access Bearer Service is realized by a Radio Bearer Service and an Iu-Bearer Service.



Figure 1. UMTS QoS architecture.

A-1.4.1.1 Radio Access Bearer Attributes

A set of attributes and their possible values are used to describe a radio access bearer capability. This set has been chosen so that a radio access bearer capability can be entirely defined by giving a value to each attribute of the set. In particular, the set and the associated allowed values enable characterization of future (not yet used or foreseen) transfer needs. For the GERAN the same set of attributes are chosen as for the UTRAN, which are defined in 23.107 [1]. The support of the different values may vary from the radio environment the user is in (indoor, urban, rural and etc.), see section A-1.4.2.1.

The values used by the 3G CN are as follows:

Table 1.	Value ranges	of the radio acces	ss bearer service	attributes in UMTS.
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Traffic class	Conversation al class	Streaming class	Interactive class	Background class
Maximum bitrate [kbps]	<2000 (1) (2)	<2000 (1) (2)	< 2000 – overhead (2) (3)	<2000 - overhead (2) (3)
Delivery order	Yes/No	Yes/No	Yes/No	Yes/No
Maximum SDU size [octets]	<1500 (4)	<1500 (4)	<1500 (4)	<1500 (4)

SDU format information	(5)	(5)		
Delivery of erroneous SDUs	Yes/No/-	Yes/No/-	Yes/No/-	Yes/No/-
Residual BER	5*10 ⁻² , 10 ⁻² , 10 ⁻ ³ , 10 ⁻⁴ (6)	$5^{*}10^{-2}, 10^{-2}, 10^{-3}, 10^{-4}, 10^{-5}, 10^{-6}$ (6)	4*10 ⁻³ , 10 ⁻⁵ , 6*10 ⁻⁸ (6) (7)	4*10 ⁻³ , 10 ⁻⁵ , 6*10 ⁻⁸ (6) (7)
SDU error ratio	10 ⁻² , 10 ⁻³ , 10 ⁻⁴ , 10 ⁻⁵ (6)	10 ⁻² , 10 ⁻³ , 10 ⁻⁴ , 10 ⁻⁵ (6)	10 ⁻³ , 10 ⁻⁴ , 10 ⁻⁶ (6)	10 ⁻³ , 10 ⁻⁴ , 10 ⁻⁶ (6)
Transfer delay [ms]	80 – maximum value(6)	500 – maximum value (6)		
Guaranteed bit rate [kbps]	<2000 (1) (2)	<2000 (1) (2)		
Traffic handling priority			1,2,3 (8)	
Allocation/Retention priority	1,2,3 (8)	1,2,3 (8)	1,2,3 (8)	1,2,3 (8)
Source statistic descriptor	Speech/unkno wn	Speech/unknow n	Speech/unkno wn	Speech/unknow n

- 1) Bitrate of 2000 kbps requires that UTRAN operates in transparent RLC protocol mode, in this case the overhead from layer 2 protocols is negligible.
- 2) The granularity of the bit rate parameters must be studied. Although the UMTS network has capability to support a large number of different bitrate values, the number of possible values must be limited not to unnecessarily increase the complexity of for example terminals, charging and interworking functions. Exact list of supported values shall be defined together with S1, N1, N3 and R2.
- 3) Impact from layer 2 protocols on maximum bitrate in non-transparent RLC protocol mode shall be estimated.
- 4) Maximum SDU size shall at least allow UMTS network to support external PDUs having as high MTU as Internet/Ethernet (1500 octets). The need for higher values must be investigated by N1, N3, S1, R2, R3.
- 5) Definition of possible values of exact SDU sizes for which UTRAN can support transparent RLC protocol mode, is the task of RAN WG3.
- 6) Values are indicative. Exact values on Residual BER, SDU error ratio and transfer delay shall defined together with S1, N1, N3 and R2.
- 7) Values are derived from CRC lengths of 8, 16 and 24 bits on layer 1.
- 8) Number of priority levels shall be further analysed by S1, N1 and N3.

A-1.4.2 Radio Bearers

Mapping of radio access bearers onto radio bearers is up to the RAN as long as the requested QoS is achieved.

Each radio bearer will be mapped to one or more radio interface logical channels for the purposes of transmission over the GERAN. Suggested properties of the GERAN:

 The design of GERAN should allow for several radio bearers to be used simultaneously with single user equipment. This could be used for instance to provide support for multiple QoS profiles in parallel - The design of GERAN should allow for optimised voice radio bearers in both the PS and the CS domain. The handling of TFO is for further study.

The design of GERAN should allow efficient support of the wide variety of services, including future services, which have yet to be defined.

A-1.4.2.1 Minimum radio bearer capabilities

Giving one of the possible values to each RAB service attribute defines a possible radio access bearer service. However, not all combinations are necessarily supported by the GERAN system. The following table shows potential combinations for the attributes that are expected to change dependent on the radio environment. The values given under the different QoS classes are Maximum bitrate/BER/Max Transfer Delay ¹.

Operating environment	Propagation conditions	Conversational	Streaming	Backgroun d	Interactive
Rural outdoor (Terminal relative speed to ground up to 250 km/h)	HT100 850/900 Mhz: RA250 1800/1900 Mhz: RA130	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Urban/ Suburban outdoor (Terminal relative speed to ground up to 120 km/h)	HT100 TU50	T.B.D.	T.B.D.	T.B.D.	T.B.D.
Indoor/ Low range outdoor (Terminal relative speed to ground up to 10 km/h)	Indoor TU3	T.B.D.	T.B.D.	T.B.D.	T.B.D.

Table 2. Minimum radio bearer capabilities.

A-1.4.2.2 RTP/UDP/IP Header adaptation

GERAN shall support header adaptation in order to provide an increase in spectral efficiency. In particular the header adaptation mechanism should not degrade the hand over performance and user perceived quality (e.g. header adaptation mechanism should not degrade the speech quality). Error propagation due to header adaptation should be kept to a minimum or avoided, if at all possible. In addition the header adaptation mechanism should operate under all expected BER and delay conditions.

A-1.5 Handover requirements

This section deals with both intra and inter GERAN handover and cell re-selection requirements. Cell reselection refers to cell change when in idle mode or ready state, whereas handover refers to change of physical channel (in the same or possibly in a new cell) when in non-idle state.

The overall requirements on GERAN handover and cell re-selection are:

 For support of pre release 2000 terminals the GERAN should provide cell re-selection in the same way as (E)GPRS;

¹ To complete the requirements the percentile for the values given in the table should be defined.

- For support of pre release 2000 terminals the GERAN should provide handover in the same way as GSM;
- Cell re-selection and handover should be in the responsibility of the radio access network²;
- GERAN should support intra- (within a cell) and inter- (between cells) cell handovers;
- For the GERAN release 2000, handover performance should be no worse than for GSM circuit switched services. In particular, the transmission gap should be no more than 150 ms;
- In GERAN release 2000, other requirements related to the HO function shall be of same quality as in GSM release 99 (e.g. neighbourcell measurement rate).

Table on Intra GERAN handover and cell reselection

	GERAN R00 PS	GERAN R99 PS	GERAN R00 CS	GERAN R99 CS
GERAN R00 PS	HO CRS	CRS	No	No
GERAN R99 PS	CRS	CRS	No	No
GERAN R00 CS	No	No	НО	НО
GERAN R99 CS	No	No	НО	HO

HO is for RT services

CRS is for NRT services

"No" means neither HO or CRS is supported

A-1.5.1 Interworking with other systems

Specific requirements are expected from SA2. The following table should be seen as the working assumption on required handover scenarios between different systems while waiting input from SA2.

Table on Inter GERAN handover and cell reselection

GERAN R00 PS	ANSI 136 No	UTRAN R99 PS CRS	UTRAN R99 CS No	UTRAN R00 PS HO CRS	UTRAN R00 CS No
GERAN R00 CS	FFS	No	НО	No	НО

HO is for RT services CRS is for NRT services

"No" means neither HO or CRS is supported

A-1.6 Security issues

Specific requirements are expected from SMG10.

A-1.7 Operational requirements

A-1.7.1 Architecture requirements

Specific requirements are expected from SA2.

² Network controlled cell re-selection refers to cell re-selection as in GSM, where the cell selection procedure is controlled by broadcasted parameters.

A-1.7.2 Radio operation environments

GERAN should support all Radio Access Bearers in the radio environments specified in current GSM 05.05.

A-1.7.3 Radio access network planning

For a comparable services, GERAN should provide cell range at least as good as GSM Release 99. GERAN systems should not affect the performance of existing EGPRS/GSM systems.

GERAN should support frequency planning similar to GSM Release 99.

Note: Coverage for RT services of GERAN needs to be defined.

A-1.7.4 Interference Management

GERAN should support interference management at least similar to GSM Release 99. The GERAN solution should not preclude the use of smart antennas.

A-1.7.5 Frequency bands and licensing

GERAN systems should be deployable in at least those frequency bands defined in GSM 05.05 release 99.

A-1.8 Efficient spectrum usage

A-1.8.1 Spectral efficiency

For comparable services, GERAN systems should have significantly higher spectral efficiency as compared to Release 99. It is understood that implementation of increased spectral efficiency may be restricted by the requirement of creating a Release 2000 Standard.

A-1.8.2 Spectrum utilization

For initial deployment GERAN shall support all services in at least 2.4 MHz of spectrum. GERAN shall support all packet domain services (real and non real time) in COMPACT mode deployment. It is recognized that spectrum efficiency may be greater with larger spectrum deployments.

A-1.9 Deployment requirements

A-1.9.1 Deployment

GERAN should be flexible to support a variety of initial deployments.

It should be possible to deploy GERAN with a minimum of upgrades to GSM Release 99 radio equipment. GSM/EDGE RAN may be deployed as a contiguous coverage, Island coverage, or Spot coverage system. It is anticipated that GERAN will also be deployed on a city-by-city basis.

A-1.9.2 Backward compatibility

It should be possible to deploy GERAN in spectrum shared with GSM Release 99, as well as other GSM systems. GERAN should be deployable in carriers and time slots adjacent to those supporting GSM Release 99, at least with fixed division of time slots between GERAN and the other systems.

It is recognized that there may be advantages to dedicating radio resources system-wide to some types of GERAN operation.

A-1.9.3 Complexity / cost

It should be possible to provide a variety of MS as well as Base Station types of varying complexity, cost and capabilities in order to satisfy the needs of different types of operator and user scenarios. The Release 2000 is expected to imply the same RF properties as a Release 1999.

A-1.9.4 Terminal

GERAN systems should support a variety of terminal types, including advanced feature phones, PDA's, PCMCIA cards, and other terminal types. Hand portables and PCMCIA card sized GERAN terminals should be optimized in terms of size, weight, operating time, range, and the effective radiated power and cost/performance ratio.

A-1.9.5 Network

For further study

A-1.10 Requirements from bodies outside SMG

A-1.10.1 Electromagnetic compatibility

GERAN systems should cause no more interference to other equipment than current GSM-based systems.

A-1.10.2 RF radiation

GERAN systems should operate at RF emission power levels consistent with applicable recommendations and specifications for electromagnetic radiation.

A-1.10.3 Security

For further study

A-1.11 Evolution of GERAN

Release 2000 of GERAN should include efficient support of RT services in the PS domain and it should be aligned with UMTS. The GERAN shall be defined so that it can be implemented in phases with increasing functionality (for example making use of new technology), while allowing the maximum possible backwards compatibility. The introduction of new functions should be done in a manner that maximizes forward compatibility with enhancements expected in subsequent releases. The definition of GERAN should allow evolution to higher bit rates.

A-1.12 Open Issues

This section summerizes the open issues that have been identified in this document.

- 1. Is there support for multiple QoS profiles in parallel in R99
- A discussion on the relation of TFO to the Transcoder (TRAU) position in the architecture highlighted the issue of how UTRAN deals with TFO. The following questions arose:
 Clarification on how TFO is handled in UMTS (This is a question for 3GPP TSG S4))
 What voice requirements will come from S2
- 3. Input from SA2 is expected on the RAB attribute value ranges.
- 4. The T.B.D. in table 2 need to be resolved. Another open issue in the table is whether other propagation models should be included, e.g. BUx.
- 5. Verify that the speech gap during handover should be no more than 150 ms is a GSM requirement.
- 6. The delay and data loss requirements on different handovers and cell re-selection shall be specified further. The requirements depend on the service and that should be reflected as well.

A-1.13 References

[1] TSG SA2, 23.107, "QoS Concept and Architecture".

Т

A-2 History

	Document history
23 th February 2000	First draft (V0.0.1)
2 nd April 2000	Updated after GERAN #1 and EDGE WS #13 (V0.0.2)
8 th May 2000	Updated after SMG2 #35 (V0.0.3)
22 nd May 2000	Updated after SMG2 GERAN WS #2 (V0.0.4)
24 th May 2000	Updated during SMG2 #36 (V0.0.5)
2 nd August 2000	Updated for 3GPP S3 meeting (V0.0.6)
28 th August 2000	Updated after SMG2 GERAN release 2000 and beyond Adhoc #1
9 th October 2000	Updated after TSG GERAN #1 as 50.099 (V0.0.1)
6 th November 2000	Updated after TSG GERAN Adhoc on release 2000 and beyond #2 as 50.099 (V0.0.2)
12 th February 2001	Updated after TSG GERAN #3 (V0.0.5)
April 2001	Updated for TSG GERAN #4 (V0.06)
7 th May 2001	Updated for TSG GERAN Adhoc on released 2000 and beyond #5 (V0.07)
11 th May 2001	Updated during TSG GERAN Adhoc on release 2000 and beyond #5 (V0.08)
28 th May 2001	Updated for TSG GERAN #5 (V0.09)
27 th August 2001	Updated for TSG GERAN #6 (V0.10)
26 th Nov 2001	Updated for TSG GERAN #7 (V0.11)
30 th Nov 2001	Updated for TSG GERAN #7 (V0.12)
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Status of Change Requests presented to TSG GERAN#07

Tdoc	Title	Source	Status
GP-	CR 03.64-A083 Coding rate of MCS3 (R99)	Nokia	Approved
012505	-		
GP-	CR 03.64-A084 Clarification of EGPRS MS USF	Ericsson	Approved
012524	decoding (R99)		
GP-	CR 04.08-A766 Alignment of ASSIGNMENT CMD, HO	Motorola	Revised
012420	CMD and CH MOD MOD for AMR (R98)		
GP-	CR 04.08-A766 rev 1 Alignment of ASSIGNMENT CMD,	Motorola	Approved
012717	HO CMD and CH MOD MOD for AMR (R98)		
GP-	CR 04.08-A768 Support of Early Classmark Sending by an	Siemens	Withdrawn
012429	PBCCH capable cell (R97)		
GP-	CR 04.08-A770 Support of Early Classmark Sending by an	Siemens	Withdrawn
012430	PBCCH capable cell (R98)		
GP-	CR 04.08-A772 Restoration of the SI 3 Rest Octets IE	Siemens	Approved
012678	description (R97)		
GP-	CR 04.08-A774 Restoration of the SI 3 Rest Octets IE	Siemens	Approved
012679	description (R98)		
GP-	CR 04.18-A226 rev 1 Backward compatibility problem in	Alcatel	Approved
012573	SI2ter Rest octets (R99)		
GP-	CR 04.18-A228 Backward compatibility problem in SI2ter	Ericsson	Withdrawn
012516	Rest Octets, alternative 2 (R99)		
GP-	CR 04.18-A229 Transparent UMTS specific information	Ericsson	Revised
012315	in Classmark Change (R99)		
GP-	CR 04.18-A229 rev 1 Transparent UMTS specific	Ericsson	Revised
012635	information in Classmark Change (R99)		
GP-	CR 04.18-A229 rev 2 Transparent UMTS specific	Ericsson	Approved
012688	information in Classmark Change (R99)		
GP-	CR 04.18-A230 Clarification of the term primary	Vodafone	Approved
012382	scrambling code (R99)		
GP-	CR 04.18-A231 Number of cells in the 3G Neighbour Cell	Vodafone	Revised
012387	list (R99)		
GP-	CR 04.18-A231 rev 1 Number of cells in the 3G	Vodafone	Withdrawn
012833	Neighbour Cell list (R99)		
GP-	CR 04.18-A232 RTD order/presence in Measurement	Motorola	Withdrawn
012414	Information and SI2Quarter (R99)		
GP-	CR 04.18-A233 Alignment of ASSIGNMENT CMD, HO	Motorola	Revised
012421	CMD and CH MOD MOD for AMR (R99)		
GP-	CR 04.18-A233 rev 1 Alignment of ASSIGNMENT CMD,	Motorola	Approved
012718	HO CMD and CH MOD MOD for AMR (R99)		
GP-	CR 04.18-A234 Correction on Ciphering Mode Setting IE	Nokia	Revised
012440	in HANDOVER COMMAND (R99)		

Tdoc	Title	Source	Status
GP-	CR 04.18-A234 rev 1 Correction on Ciphering Mode	Nokia	Approved
012700	Setting IE in HANDOVER COMMAND (R99)		
GP-	CR 04.18-A236 Support of Early Classmark Sending by	Siemens	Revised
012431	an PBCCH capable cell (R99)		
GP-	CR 04.18-A236 rev 1 Support of Early Classmark Sending	Siemens	Approved
012675	by an PBCCH capable cell (R99)		
GP-	CR 04.18-A237 Support of Early Classmark Sending by an	Siemens	Approved
012680	PBCCH capable cell (R99)		
GP-	CR 04.18-A238 Correction on GSM400 measurement	Nokia	Approved
012795	parameter coding (R99)		
GP-	CR 04.31-A046 RRLP - Correction of Error Handling	Siemens	Approved
012002	Procedures (R98)		
GP-	CR 04.31-A047 RRLP - Correction of Error Handling	Siemens	Approved
012003	Procedures (R99)		
GP-	CR 04.31-A048 rev 1 Corrections to Rough RTD,	Nokia	Approved
011980	Multiframe Offset and Expected OTD Ranges (R98)		
GP-	CR 04.31-A049 rev 1 Corrections to Rough RTD,	Nokia	Approved
011981	Multiframe Offset and Expected OTD Ranges (R99)		11
GP-	CR 04.31-A050 Expected OTD and its uncertainty values	Nokia	Approved
012004	are missing from Assistance Data component. (R98)		11
GP-	CR 04.31-A051 Expected OTD and its uncertainty values	Nokia	Approved
012005	are missing from Assistance Data component. (R99)		
GP-	CR 04.31-A052 Correction to Toc and Toe ephemeris	Ericsson	Approved
012006	parameters (R98)		
GP-	CR 04.31-A053 Correction to Toc and Toe ephemeris	Ericsson	Approved
012007	parameters (R99)		
GP-	CR 04.31-A056 "Expected" Multiframe Offset (R98)	Ericsson, Siemens	Approved
012306	•		
GP-	CR 04.31-A057 "Expected" Multiframe Offset (R99)	Ericsson, Siemens	Approved
012307	•		
GP-	CR 04.31-A058 Correction of Reference Frame in	Motorola	Revised
012541	Location Information Element (R98)		
GP-	CR 04.31-A058 rev 1 Correction of Reference Frame in	Motorola	Revised
012815	Location Information Element (R98)		
GP-	CR 04.31-A058 rev 2 Correction of Reference Frame in	Motorola	Approved
012844	Location Information Element (R98)		
GP-	CR 04.31-A059 Correction of Reference Frame in	Motorola	Revised
012542	Location Information Element (R99)		
GP-	CR 04.31-A059 rev 1 Correction of Reference Frame in	Motorola	Revised
012816	Location Information Element (R99)		
GP-	CR 04.31-A059 rev 2 Correction of Reference Frame in	Motorola	Approved
012845	Location Information Element (R99)		
GP-	CR 04.35-A011 rev 1 Definition of RTD clarified. (R98)	Nokia	Approved
012008			
GP-	CR 04.35-A012 rev 1 Definition of RTD clarified. (R99)	Nokia	Approved
012009			
GP-	CR 04.35-A013 rev 1 Correction to Sectored Channels	Nokia	Approved
011984	BTS ID Definition IE		

Tdoc	Title	Source	Status
GP-	CR 04.35-A014 rev 1 Correction to Sectored Channels	Nokia	Approved
011985	BTS ID Definition IE		
GP-	CR 04.35-A015 Definition of Reference Time IE	Nokia	Approved
012010	corrected. (R98)		
GP-	CR 04.35-A016 Definition of Reference Time IE	Nokia	Approved
012011	corrected. (R99)		
GP-	CR 04.35-A017 rev 1 Defined range for Multiframe Offset	Nokia	Approved
012012	Values IE. Range of 51 multiframe offset is 0 - 50. (R98)		
GP-	CR 04.35-A018 rev 1 Defined range for Multiframe Offset	Nokia	Approved
012013	Values IE. Range of 51 multiframe offset is 0 - 50. (R99)		
GP-	CR 04.60-B035 rev 1 Countdown Value for EGPRS (R99)	Nokia	Approved
012014			
GP-	CR 04.60-B037 Clarification of	Ericsson	Approved
012015	TLLI_BLOCK_CHANNEL_CODING field (R99)		
GP-	CR 04.60-B038 Correction of abnormal release without	Ericsson	Approved
012016	retry (R99)		
GP-	CR 04.60-B040 rev 2 Support of Early Classmark Sending	Siemens	Withdrawn
012424	by an PBCCH capable cell (R97)		
GP-	CR 04.60-B041 rev 1 Support of Early Classmark Sending	Siemens	Withdrawn
012425	by an PBCCH capable cell (R98)		
GP-	CR 04.60-B042 rev 2 Support of Early Classmark Sending	Siemens	Revised
012426	by an PBCCH capable cell (R99)		
GP-	CR 04.60-B042 rev 3 Support of Early Classmark Sending	Siemens	Approved
012683	by an PBCCH capable cell (R99)		
GP-	CR 04.60-B043 rev 3 Clarification of EGPRS MS USF	Ericsson	Approved
012584	decoding (R99)		
GP-	CR 04.60-B044 rev 1 Contention resolution at one-phase	Nokia	Approved
012017	access for EGPRS (correction) (R99)		
GP-	CR 04.60-B046 Clarification regarding RRBP handling in	Alcatel	Revised
012597	the Packet Cell Change Order message (R99) - Withdrawn		
GP-	CR 04.60-B046 rev 1 Clarification regarding RRBP	Alcatel	Approved
012631	handling in the Packet Cell Change Order message (R99)		
GP-	CR 04.60-B047 Correction for Packet Enhanced	Nokia	Approved
012224	Measurement Report (R99)		
GP-	CR 04.60-B048 Clarification of the term primary	Vodafone	Approved
012385	scrambling code (R99)		
GP-	CR 04.60-B049 Number of cells in the 3G Neighbour Cell	Vodafone	Revised
012390	list (R99)		
GP-	CR 04.60-B049 rev 1 Number of cells in the 3G	Vodafone	Withdrawn
012698	Neighbour Cell list (R99)		
GP-	CR 04.60-B050 Removal of T3198 (R99)	Nokia, Ericsson	Revised
012449			
GP-	CR 04.60-B050 rev 1 Removal of T3198 (R99)	Nokia	Approved
012693			
GP-	CR 04.60-B051 Random distribution of PRACH messages	Ericsson	Approved
012510	(R99)		
GP-	CR 04.60-B052 Training Sequence Code on	Ericsson	Withdrawn
012512	PBCCH/PCCCH (R97)		

Tdoc	Title	Source	Status
GP-	CR 04.60-B053 Training Sequence Code on	Ericsson	Withdrawn
012513	PBCCH/PCCCH (R98)		
GP-	CR 04.60-B054 Training Sequence Code on	Ericsson	Withdrawn
012514	PBCCH/PCCCH (R99)		
GP-	CR 04.60-B055 Correction of minimum number of paging	Alcatel	Withdrawn
012599	blocks "available" on one PCCCH (R99)		
GP-	CR 04.60-B056 EGPRS Compressed Receive Block	Ericsson	Approved
012606	Bitmap (R99)		
GP-	CR 04.60-B057 Clarification of PSI Count High	Siemens	Approved
012633	Rate(wrong CR implementation) (R99)		11
GP-	CR 04.60-B058 Correction to Packet Timeslot reconfigure	Ericsson	Approved
012671	(R99)		11
GP-	CR 04.60-B059 Correction on GSM400 measurement	Nokia	Revised
012799	parameter coding (R99)		
GP-	CR 04.60-B059 rev 1 Correction on GSM400	Nokia	Approved
012835	measurement parameter coding (R99)		11
GP-	CR 04.71-A011 Correction of Reporting Period range IE	Siemens	Approved
012018	in RIT Measurement Request message (R98)		11
GP-	CR 04.71-A012 Correction of Reporting Period range IE	Siemens	Approved
012019	in RIT Measurement Request message (R99)		II ····
GP-	CR 04.71-A015 Correction of inconsistent text information	Siemens	Approved
012216	in Location Service Message type IE (R98)		II ····
GP-	CR 04.71-A016 Correction of inconsistent text information	Siemens	Approved
012217	in Location Service Message type IE (R99)		II ····
GP-	CR 05.01-A032 Correction of description AMR channel	Ericsson	Approved
012361	convolutional code rate (R98)		II ····
GP-	CR 05.01-A033 Correction of description AMR channel	Ericsson	Approved
012362	convolutional code rate (R99)		11
GP-	CR 05.01-A034 Coding rate of MCS3 (R99)	Nokia	Approved
012507			11
GP-	CR 05.02-A190 E-OTD and Dummy Bursts on the BCCH	Ericsson	Rejected
012300	Carrier (R98)		5
GP-	CR 05.02-A191 E-OTD and Dummy Bursts on the BCCH	Ericsson	Rejected
012301	Carrier (R99)		5
GP-	CR 05.02-A192 Training Sequence Code on	Ericsson	Rejected
012519	PBCCH/PCCCH (R97)		5
GP-	CR 05.02-A193 Training Sequence Code on	Ericsson	Rejected
012520	PBCCH/PCCCH (R98)		5
GP-	CR 05.02-A194 Training Sequence Code on	Ericsson	Rejected
012521	PBCCH/PCCCH (R99)		U
GP-	CR 05.02-A195 Correction of minimum number of paging	Alcatel	Withdrawn
012598	blocks "available" on one PCCCH (R99)		
GP-	CR 05.02-A196 Correction of minimum number of paging	Alcatel	Rejected
012628	blocks "available" on one PCCCH (R99)		U
GP-	CR 05.04-A012 Correction of tail bits for 8PSK normal	Ericsson	Approved
012358	burst (R99)		
GP-	CR 05.08-A336 Clarification on Packet Enhanced	Nokia	Approved
012221	Measurement Reporting (R99)		

Tdoc	Title	Source	Status
GP-	CR 05.08-A337 Clarification of the cell-reselection to	Vodafone	Withdrawn
012393	UTRAN (R99)		
GP-	CR 05.08-A338 Number of cells/frequencies to be	Vodafone	Approved
012395	monitored by a dual mode terminal (R99)		
GP-	CR 05.08-A339 Correction of parameters related to	Motorola	Revised
012408	enhanced and 3G measurements (R99)		
GP-	CR 05.08-A339 rev 1 Correction of parameters related to	Motorola	Approved
012759	enhanced and 3G measurements (R99)		11
GP-	CR 05.08-A340 Clarification on UTRAN FDD RSSI	Nokia	Approved
012488	reporting (R99)		11
GP-	CR 05.08-A341 Alignment of REPORT_TYPE parameter	Nokia	Withdrawn
012491	definition according to 04.18 & 04.60 (R99)		
GP-	CR 05.08-A342 Clarification on the applicability of the	Nokia	Revised
012494	SERVING BAND REPORTING (R99)		
GP-	CR 05.08-A342 rev 1 Clarification on the applicability of	Nokia	Withdrawn
012763	the SERVING BAND REPORTING (R99)		
GP-	CR 05.08-A343 Alignment of predefined configuration	Nokia	Approved
012497	handling according to RAN 2 views (R99)		11
GP-	CR 05.09-A022 CHANNEL MODE MODIFY, phase and	Motorola	Revised
012404	RATSCCH (R98)		
GP-	CR 05.09-A022 rev 1 CHANNEL MODE MODIFY.	Motorola	Approved
012741	phase and RATSCCH (R98)		
GP-	CR 05.09-A023 CHANNEL MODE MODIFY, phase and	Motorola	Revised
012405	RATSCCH (R99)		
GP-	CR 05.09-A023 rev 1 CHANNEL MODE MODIFY.	Motorola	Approved
012742	phase and RATSCCH (R99)		
GP-	CR 08.08-A241 Transparent RRC containers in 2G-3G	Ericsson	Revised
012318	Handover Signalling (R99)		
GP-	CR 08.08-A241 rev 1 Transparent RRC containers in 2G-	Ericsson	Revised
012638	3G Handover Signalling (R99)		
GP-	CR 08.08-A241 rev 2 Transparent RRC containers in 2G-	Ericsson	Approved
012830	3G Handover Signalling (R99)		11
GP-	CR 08.18-A136 Correction of code points in IEI (R99)	MCC	Rejected
012163	1 /		5
GP-	CR 08.18-A137 Correction of code points in IEI (R99)	MCC	Rejected
012166			5
GP-	CR 08.71-014 Adding of Cell Identifier List related to	Alcatel	Revised
012566	Measurement report information (R99)		
GP-	CR 08.71-A014 rev 1 Addition of Cell Identifier List	Alcatel	Approved
012819	related to Measurement report information (R99)		11
GP-	CR 08.71-A015 Correction of faulty reference (R99)	Ericsson	Approved
012020			11
GP-	CR 08.71-A017 Correction of Cause IE reference (R99)	Siemens	Approved
012601			11
GP-	CR 08.71-A018 Correction of Cause IE reference (R98)	Siemens	Approved
012600			11
GP-	CR 09.31-A026 Define IE's order of appearance in	Siemens	Approved
012021	BSSAP-LE message (R98)		**

Tdoc	Title	Source	Status
GP-	CR 09.31-A027 Define IE's order of appearance in	Siemens	Approved
012022	BSSAP-LE message (R99)		
GP-	CR 09.31-A028 Define number of keys in Deciphering	Nortel Networks,	Revised
012211	Keys IE (R98)	Siemens	
GP-	CR 09.31-A028 rev 1 Define number of keys in	Siemens, Nortel	Approved
012823	Deciphering Keys IE (R98)	,	rr
GP-	CR 09 31-A029 Define number of keys in Deciphering	Nortel Networks	Revised
012212	Kevs IF (R99)	Siemens	nevisea
GP-	CR 09.31- Δ 029 rev 1 Define number of keys in	Siemens Nortel	Approved
012807	Deciphering Keys IF (R99)	Stemens, torter	nppioved
GP-	CR 09.95-4003 Support of Early Classmark Sending by	Siemens	Revised
012625	an PRCCH canable cell (P07)	Siemens	Revised
GP	CP 00.05 A002 roy 1 Support of Early Classmark Sonding	Siomone	Approved
012020	by an DPCCH conchine coll (D07)	Siemens	Appioved
012020 CD	CP 00.05 A004 Support of Farly Classmork Sanding by	Siamana	Davised
OF-	or DDCCU complete coll (D09)	Siemens	Keviseu
012020	an PBCCH capable cell (K98)	C :	A
GP-	CR 09.95-A004 rev 1 Support of Early Classmark Sending	Siemens	Approved
012829	CD 11 10 4 A006 C		. 1
GP-	CR 11.10-4-A006 Corrections for Test Case 27.22.4.7	GERAN WG5	Approved
012124	(REFRESH) (R96) (G5-010107)		
GP-	CR 11.10-4-A007 Corrections for Test Case 27.22.5.2	GERAN WG5	Approved
012125	(SMS-CB Data Download) (R96) (G5-010108)		
GP-	CR 24.008-354 rev 2 Introduction of a revision level	Alcatel	Withdrawn
012570	indicator 2 in the MS Radio Access Capability IE and MS		
	Classmark 3 IE (Rel 4)		
GP-	CR 24.008-510 Clarification on the EDGE parameters in	Siemens	NA
012624	the Mobile Station Classmark 3 IE (Rel 5)		
GP-	CR 24.008-Axxx High multislot classes for type 1 mobiles	BT, Motorola	NA
012419	(Rel 5)		
GP-	CR 24.008-xxx High multislot classes for type 1 mobiles	BT, Motorola	NA -
012716	(Rel-5)		Withdrawn
GP-	CR 25.331-xxx Corrections to RRC containers	Ericsson	NA
012484			
GP-	CR 25.413-xxx Corrections to RRC containers	Ericsson	NA
012485			
GP-	CR 43.051-033 Introduction of support for MSC/SGSN in	Ericsson	Postponed
012459	pool in GERAN Iu mode (Rel 5)		1
GP-	CR 43.051-034 Inclusion of GERAN Iu Internal Cell	Ericsson	Revised
012460	Identity CI (Rel 5)		
GP-	CR 43.051-034 rev 1 Inclusion of GERAN Iu Internal Cell	Ericsson	Revised
012706	Identity CI (Rel-5)		
GP-	CR 43.051-034 rev 2 Inclusion of GERAN Iu Internal Cell	Ericsson	Approved
012834	Identity CI (Rel-5)		rr
GP-	CR 43.051-035 Removal of Fast Random Access (Rel 5)	Nokia	Revised
012559			
GP-	CR 43.051-035 rev 1 Removal of Fast Random Access	Nokia	Approved
012705	from GERAN Rel5 Iu		
GP-	CR 43.059-012 Inter NSE Cell Change for LCS for GPRS	Ericsson	Revised
011988	(Rel 5)		10000
011700			

Tdoc	Title	Source	Status
GP-	CR 43.059-012 rev 1 Inter NSE Cell Change for LCS for	Ericsson	Revised
012710	GPRS (Rel 5)		
GP-	CR 43.059-012 rev 2 Inter NSE Cell Change for LCS for	Ericsson	Revised
012801	GPRS (Rel-5)		
GP-	CR 43.059-012 rev 3 Inter NSE Cell Change for LCS for	Ericsson	Approved
012836	GPRS (Rel-5)		11
GP-	CR 43 059-013 Correction of Perform Location	Ericsson	Withdrawn
011992	Information (Rel 5)		,, indiana , in
GP-	CR 43 059-014 Clean-up CR for LCS for GPRS (Rel 5)	Friesson	Approved
011993	er 45.057 014 clean up er for Leb for of Rb (Ref 5)	Lifesson	nppioved
GP-	CR 43 059-015 Correction of Inconsistent Text (Rel 4)	Friesson	Approved
011007	er +5.057-015 concetion of inconsistent Text (Ref +)	Lifesson	Appioved
011 <i>331</i>	CD 42.050.016 Correction of Inconsistent Text (Dol 5)	Eriascon	Approved
OF-	CK 45.059-010 Collection of inconsistent fext (Kei 5)	ETICSSOII	Appioved
011998 CD	CD 42.050.017 Error Handling for E OTD and CDS (Dal	Ciamana	Ammanual
GP-	CR 45.059-017 Error Handling for E-OTD and GPS (Ref	Stemens	Approved
012209		a :	
GP-	CR 43.059-018 Error Handling for E-OTD and GPS (Rel	Siemens	Approved
012210	5)	~ .	
GP-	CR 43.059-019 Use of TOM signaling to support LCS for	Siemens	Revised
012215	Gb Mode (Rel 5)		
GP-	CR 43.059-019 rev 1 Use of TOM signaling to support	Siemens	Approved
012822	LCS for Gb Mode (Rel-5)		
GP-	CR 43.059-021 Editorial revision definition section for TS	Nokia	Approved
012280	43.059 (Rel 5)		
GP-	CR 43.059-022 Inter NSE Cell Change for LCS for GPRS	Alcatel	Withdrawn
012576	(Rel 5)		
GP-	CR 43.064-004 Coding rate of MCS3 (Rel 4)	Nokia	Approved
012506	-		
GP-	CR 43.064-005 Clarification of EGPRS MS USF decoding	Ericsson	Approved
012525	(REL-4)		
GP-	CR 44.004-003 Removal of Enhanced Power Control (Rel	MCC	Approved
012226	4)		11
GP-	CR 44.004-004 Editorial Corrections (Rel 5)	MCC	Approved
012310			
GP-	CR 44 004-005 Editorial Corrections (Rel 4)	MCC	Approved
012311			r pprov e a
GP-	CR 44 004-006 Enhanced Power Control Alignment with	Ericsson	Approved
012357	A8 058 (Rel_5)	Lifesson	rippioved
GP	CP 11 018 101 rev 1 Backward compatibility problem in	Alcotol	Approved
012574	SI2ter Past octats (Pal 4)	Alcalei	Аррготей
012374 CD	CD 44 019 105 row 1 Backward compatibility problem in	Alastal	Approved
OF-	SI2ter Dest estate (Del 5)	Alcalei	Appioved
012373 CD	CD 44 018 106 Demousl of TOA nositioning method (Dal	A 10 0 4 0 1	المعتمد معامل
GP-	CK 44.018-100 Removal of TOA positioning method (Ref	Alcalei	Approved
012025	4) $(10, 10, 10, 10, 10, 10, 10, 10, 10, 10, $	A1 / 1	A 1
UP-	CK 44.018-10/ rev 1 Kemoval of 10A positioning method	Alcatel	Approved
012024 CD	(Kei 5)	NT 1'	A 1
GP-	CK 44.018-110 rev 2 Introduction of Signalling for	INOK1a	Approved
012025	Adaptive multi rate speech channel at 8-PSK half rate (O-		
	TCH/AHS) (Rel 5)		

Tdoc	Title	Source	Status
GP-	CR 44.018-111 Re-inserting of erroneusly deleted	MCC	Approved
012001	paragraphs in 44.018 (Rel 5)		
GP-	CR 44.018-112 Editorial Corrections (Rel 5)	MCC	Approved
012169			
GP-	CR 44.018-113 Transparent UMTS specific information	Ericsson	Revised
012316	in Classmark Change (Rel 4)		
GP-	CR 44.018-113 rev 1 Transparent UMTS specific	Ericsson	Revised
012636	information in Classmark Change (Rel 4)		
GP-	CR 44.018-113 rev 2 Transparent UMTS specific	Ericsson	Approved
012689	information in Classmark Change (Rel-4)		
GP-	CR 44.018-114 Transparent UMTS specific information	Ericsson	Revised
012317	in Classmark Change (Rel 5)		
GP-	CR 44.018-114 rev 1 Transparent UMTS specific	Ericsson	Revised
012637	information in Classmark Change (Rel 5)		
GP-	CR 44.018-114 rev 2 Transparent UMTS specific	Ericsson	Approved
012690	information in Classmark Change (Rel-5)		
GP-	CR 44.018-115 Introduction of GPRS-State-dependant	Vodafone	Withdrawn
012380	search/cell-reselection to UTRAN (Rel-5) - Withdrawn		
GP-	CR 44.018-116 Clarification of the term primary	Vodafone	Approved
012383	scrambling code (Rel-4)		
GP-	CR 44.018-117 Clarification of the term primary	Vodafone	Approved
012384	scrambling code (Rel-5)		
GP-	CR 44.018-118 Number of cells in the 3G Neighbour Cell	Vodafone	Revised
012388	list (Rel-4)		
GP-	CR 44.018-118 rev 1 Number of cells in the 3G Neighbour	Vodafone	Withdrawn
012696	Cell list (Rel-4)		
GP-	CR 44.018-119 Number of cells in the 3G Neighbour Cell	Vodafone	Revised
012389	list (Rel-5)		
GP-	CR 44.018-119 rev 1 Number of cells in the 3G Neighbour	Vodafone	Withdrawn
012697	Cell list (Rel-5)		
GP-	CR 44.018-120 RTD order/presence in Measurement	Motorola	Withdrawn
012415	Information and SI2Quarter (Rel 4)		
GP-	CR 44.018-121 RTD order/presence in Measurement	Motorola	Withdrawn
012416	Information and SI2Quarter (Rel 5)		
GP-	CR 44.018-122 RA colour vs RA code clarification (Rel 4)	Motorola	Revised
012417			
GP-	CR 44.018-122 rev 1 RA colour vs RA code clarification	Motorola	Approved
012686	(Rel-4)		
GP-	CR 44.018-123 RA colour vs RA code clarification (Rel 5)	Motorola	Revised
012418			
GP-	CR 44.018-123 rev 1 RA colour vs RA code clarification	Motorola	Approved
012687	(Rel-5)		D · 1
GP-	CR 44.018-124 Alignment of ASSIGNMENT CMD, HO	Motorola	Revised
012422 CD	CMD and CH MOD MOD for AMR (Rel 4)		A 1
GP-	UK 44.018-124 rev 1 Alignment of ASSIGNMENT CMD,	Motorola	Approved
012/19 CD	HU CMD and CH MUD MUD for AMK (Kel-4)	Madauala	Dereit 1
GP-	CMD and CILMOD MOD for AMD (D. 15)	iviotorola	Kev1sed
012423	CMD and CH MOD MOD for AMK (Kel 5)		

Tdoc	Title	Source	Status
GP-	CR 44.018-125 rev 1 Alignment of ASSIGNMENT CMD,	Motorola	Approved
012720	HO CMD and CH MOD MOD for AMR (Rel-5)		
GP-	CR 44.018-126 Correction on Ciphering Mode Setting IE	Nokia	Revised
012442	in HANDOVER COMMAND (Rel 4)		
GP-	CR 44.018-126 rev 1 Correction on Ciphering Mode	Nokia	Approved
012701	Setting IE in HANDOVER COMMAND (Rel-4)		
GP-	CR 44.018-127 Correction on Ciphering Mode Setting IE	Nokia	Revised
012444	in HANDOVER COMMAND (Rel 5)		
GP-	CR 44.018-127 rev 1 Correction on Ciphering Mode	Nokia	Approved
012702	Setting IE in HANDOVER COMMAND (Rel-5)		
GP-	CR 44.018-128 Correction on GSM400 measurement	Nokia	Approved
012446	parameter coding (Rel-4)		
GP-	CR 44.018-128 rev 1Correction on GSM400 measurement	Nokia	Withdrawn
012796	parameter coding (Rel-4)		
GP-	CR 44.018-129 Correction on GSM400 measurement	Nokia	Approved
012447	parameter coding (Rel-5)		
GP-	CR 44.018-129 rev 1 Correction on GSM400 measurement	Nokia	Withdrawn
012797	parameter coding (Rel-5)		
GP-	CR 44.018-130 Backward compatibility problem in SI2ter	Ericsson	Withdrawn
012517	Rest Octets, alternative 2 (REL-4)		
GP-	CR 44.018-131 Backward compatibility problem in SI2ter	Ericsson	Withdrawn
012518	Rest Octets, alternative 2 (REL-5)		
GP-	CR 44.018-132 Support of Early Classmark Sending by an	Siemens	Revised
012681	PBCCH capable cell (Rel-4)		
GP-	CR 44.018-132 rev 1 Support of Early Classmark Sending	Siemens	Approved
012826	by an PBCCH capable cell (Rel-4)		11
GP-	CR 44.018-133 Support of Early Classmark Sending by an	Siemens	Revised
012682	PBCCH capable cell (Rel-5)		
GP-	CR 44.018-133 rev 1 Support of Early Classmark Sending	Siemens	Approved
012827	by an PBCCH capable cell (Rel-5)		
GP-	CR 44.018-134 Training Sequence Code on	Ericsson	Approved
012708	PBCCH/PCCCH (Rel-4)		
GP-	CR 44.018-135 Training Sequence Code on	Ericsson	Approved
012709	PBCCH/PCCCH (Rel-5)		
GP-	CR 44.018-136 Support of Early Classmark Sending by an	Siemens	Revised
012432	PBCCH capable cell (Rel 4)		
GP-	CR 44.018-136 rev 1 Support of Early Classmark Sending	Siemens	Approved
012676	by an PBCCH capable cell (Rel-4)		
GP-	CR 44.018-137 Support of Early Classmark Sending by an	Siemens	Revised
012433	PBCCH capable cell (Rel 5)		
GP-	CR 44.018-137 rev 1 Support of Early Classmark Sending	Siemens	Approved
012677	by an PBCCH capable cell (Rel-5)		
GP-	CR 44.031-011 RRLP - Correction of Error Handling	Siemens	Approved
012026	Procedures (Rel 4)		
GP-	CR 44.031-012 RRLP - Remove references to NSS based	Siemens	Withdrawn
012027	SMLC (Rel 4)		
GP-	CR 44.031-013 rev 1 Corrections to Rough RTD,	Nokia	Approved
011982	Multiframe Offset and Expected OTD Ranges (Rel 4)		

Tdoc	Title	Source	Status
GP-	CR 44.031-014 rev 1 Corrections to Rough RTD,	Nokia	Approved
011983	Multiframe Offset and Expected OTD Ranges (Rel 5)		
GP-	CR 44.031-015 Expected OTD and its uncertainty values	Nokia	Approved
012028	are missing from Assistance Data component. (Rel 4)		
GP-	CR 44.031-016 Expected OTD and its uncertainty values	Nokia	Approved
012029	are missing from Assistance Data component. (Rel 5)		11
GP-	CR 44.031-017 Correction to Toc and Toe ephemeris	Ericsson	Approved
012030	parameters (Rel 4)		11
GP-	CR 44.031-018 Correction to Toc and Toe ephemeris	Ericsson	Approved
012031	parameters (Rel 5)		11
GP-	CR 44.031-019 Assistance data (Rel 5)	Siemens	Approved
012032			11
GP-	CR 44.031-022 RRLP - Correction of Error Handling	Siemens	Approved
012033	Procedures (Rel 5)		
GP-	CR 44.031-023 RRLP - Remove references to NSS based	Siemens	Withdrawn
012034	SMLC (Rel 5)		
GP-	CR 44 031-024 Editorial Corrections (Rel 5)	MCC	Approved
012170			r ppro v o a
GP-	CR 44 031-025 RRLP - Remove references to NSS based	Siemens	Approved
012219	SMIC (Rel 4)	Stemens	nppioved
GP-	CR 44 031-026 RRLP - Remove references to NSS based	Siemens	Approved
012220	SMIC (Rel 5)	Stemens	nppioved
GP-	CR 44 031-027 "Expected" Multiframe Offset (Rel 4)	Ericsson Siemens	Approved
012308	er (1.651 627 Expected Multilluite Offset (Ref 1)	Lifesson, biemens	nppioved
GP-	CR 44 031-028 "Expected" Multiframe Offset (Rel 5)	Ericsson Siemens	Approved
012309	er 44.051 020 Expected Multiliane Offset (Ref 5)	Lifesson, biemens	nppioved
GP-	CR 44 031-029 Correction of Reference Frame in Location	Motorola	Revised
012543	Information Element (Rel 4)	110001010	10011500
GP-	CR 44 031-029 rev 1 Correction of Reference Frame in	Motorola	Revised
012817	Location Information Element (Rel-4)	1. Interest of the	ite vibeu
GP-	CR 44 031-029 rev 2 Correction of Reference Frame in	Motorola	Approved
012846	Location Information Element (Rel-4)	1. Iotororu	rippiotea
GP-	CR 44 031-030 Correction of Reference Frame in Location	Motorola	Revised
012544	Information Element (Rel 5)	Wiotorola	ite vibea
GP-	CR 44 031-030 rev 1 Correction of Reference Frame in	Motorola	Revised
012818	Location Information Element (Rel-5)	Wiotorola	ite visea
GP-	CR 44 031-030 rev 2 Correction of Reference Frame in	Motorola	Approved
012847	Location Information Element (Rel-5)	Wiotorola	nppioved
GP-	CR 44 035-001 rev 1 Definition of RTD clarified (Rel 4)	Nokia	Approved
012035	ex 44.055 001 fev 1 Definition of K1D charmed. (Kel 4)	Itokia	nppioved
GP-	CR 44 035-003 rev 1 Correction to Sectored Channels	Nokia	Approved
011986	BTS ID Definition IF	Itokia	nppioved
GP-	CR 44 035-005 Definition of Reference Time IF corrected	Nokia	Approved
012036	$(Rel \Lambda)$	Itokia	nppioved
GP-	CR 44 035-007 rev 1 Defined range for Multiframe Offset	Nokia	Annroved
012037	Values IF Range of 51 multiframe offset is $0 = 50$ (Pal 4)	ιτοκια	Appioved
GP-	CR 44 060-061 rev 1 Countdown Value for ECPRS (Rel	Nokia	Annroved
012038			rppioved
$\sqrt{1} \Delta V_{c} 0$	T/		

Tdoc	Title	Source	Status
GP-	CR 44.060-066 Clarification of	Ericsson	Approved
012039	TLLI_BLOCK_CHANNEL_CODING field (Rel 4)		
GP-	CR 44.060-067 Correction of abnormal release without	Ericsson	Approved
012040	retry (Rel 4)		11
GP-	CR 44.060-068 rev 1 Clarification of network behaviour	Ericsson	Approved
012041	for NACC (Rel-4)		11
GP-	CR 44 060-070 rev 1 FREQUENCY DIFF field in Packet	Alcatel	Revised
012042	Cell CHange Order message (Rel 5)	1 Houtor	itevised
GP	CP 44 060 070 ray 2 EPEOLIENCY DIFE field in Packet	Alcotol	Approved
012605	Call CHange Order message (Pal 4)	Alcalei	Арргочец
012095 CD	CD 44.060.072 roy 1 Support of Fouly Closemont Sonding	Ciamana	Davisad
OF-	CK 44.000-072 TeV I Support of Early Classifiark Sending	Stemens	Keviseu
012427 CD	by an PBCCH capable cell (Rel 4)	C '	. 1
GP-	CR 44.060-0/2 rev 2 Support of Early Classmark Sending	Siemens	Approved
012684	by an PBCCH capable cell (Rel-4)	~ .	
GP-	CR 44.060-073 rev 1 Support of Early Classmark Sending	Siemens	Withdrawn
012428	by an PBCCH capable cell (Rel 5)		
GP-	CR 44.060-074 rev 3 Clarification of EGPRS MS USF	Ericsson	Approved
012585	decoding (Rel 4)		
GP-	CR 44.060-076 Rel 5 Chapter 8 (Rel 5)	Nokia, Siemens,	Postponed
012560	-	Vodafone	_
GP-	CR 44.060-077 Rel 5 Chapter 9 (Rel 5)	Nokia	Postponed
012561			1
GP-	CR 44.060-078 rev 1 Contention resolution at one-phase	Nokia	Approved
012043	access for EGPRS (correction) (Rel 4)	- · · · · · · · · · · · · · · · · · · ·	
GP-	CR 44 060-082 Correction for Packet Enhanced	Nokia	Approved
012225	Measurement Report (Rel 4)	Tokiu	rippioved
GP-	CR 44 060-083 Introduction of GPRS-State-dependent	Vodafone	Withdrawn
012381	search/call reselection to LITPAN (Pel 5) Withdrawn	Vouarone	w maawn
CP	$CP_{44} 060_{084} Clarification of the term primary$	Vodefona	Approved
012296	corombling and (Dal 4)	Vouatone	Appioveu
012380 CD	CD 44.060.095 Number of calls in the 2C Naighbour Call	Vadafana	Deviced
GP-	CK 44.000-085 Number of cells in the 5G Neighbour Cell	vodalone	Revised
012391	list (Rei-4)	X7 1 C	****
GP-	CR 44.060-085 rev 1 Number of cells in the 3G Neighbour	Vodatone	Withdrawn
012699	Cell list (Rel-4)		
GP-	CR 44.060-086 Removal of T3198 (Rel 4)	Nokia, Ericsson	Revised
012450			
GP-	CR 44.060-086 rev 1 Removal of T3198 (Rel-4)	Nokia	Approved
012694			
GP-	CR 44.060-087 Correction on GSM400 measurement	Nokia	Revised
012448	parameter coding (Rel-4)		
GP-	CR 44.060-087 rev 1 Correction on GSM400 measurement	Nokia	Approved
012798	parameter coding (Rel-4)		
GP-	CR 44.060-088 Random distribution of PRACH messages	Ericsson	Approved
012511	(Rel-4)		11
GP-	CR 44.060-089 Training Sequence Code on	Ericsson	Revised
012515	PBCCH/PCCCH (Rel-4)		
GP-	CR 44 060-089 rev 1 Training Sequence Code on	Ericsson	Approved
012707	PBCCH/PCCCH (Rel-4)		PProved
012/07			

Tdoc	Title	Source	Status
GP-	CR 44.060-090 updated section 4 (Rel 5)	Siemens	Postponed
012453	-		-
GP-	CR 44.060-091 Updated Section 7 (Rel 5)	Siemens	Postponed
012455	L		•
GP-	CR 44.060-092 Correction on extended UL TBF (Rel 4)	Alcatel	Rejected
012565			0
GP-	CR 44.060-093 Clarification regarding mandatory protocol	Alcatel	Withdrawn
012569	extensions introduced in release 4 (Rel 4)		
GP-	CR 44.060-094 EGPRS Compressed Receive Block	Ericsson	Approved
012607	Bitmap (Rel 4)		11
GP-	CR 44.060-095 RLC/MAC Proposal for FACCH, SACCH	Nokia	Postponed
012558	and SDCCH (Rel 5)		I
GP-	CR 44.060-096 Clarification regarding RRBP handling in	Alcatel	Approved
012627	the Packet Cell Change Order message (Rel 4)		
GP-	CR 44.060-097 Correction to Packet Timeslot reconfigure	Ericsson	Approved
012672	Rel-4		- pproved
GP-	CR 44 060-098 Correction of minimum number of paging	Alcatel	Postponed
012713	blocks "available" on one PCCCH (Rel-5)	lifetter	rostponea
GP-	CR 44 060-099 Introduction of feature indicator (Rel 4)	Friesson	Revised
012804	ex +1.000 077 infloduction of realate indicator (Ker +)	Lifesson	ite vised
GP-	CR 44 060-099 rev 1 Introduction of feature indicator (Rel	Friesson	Revised
012824		Lifesson	ite vised
GP-	CR 14 060-099 rev 2 Introduction of feature indicator (Rel	Friesson	Approved
0128/18		Lifesson	nppioved
GP-	CR 44 071-005 Correction of Reporting Period range IE in	Siemens	Approved
012044	RIT Measurement Request message (Rel 4)	biemens	nppioved
GP-	CR 44 071-009 Correction of inconsistent text information	Siemens	Approved
012218	in Location Service Message type IF (Rel 4)	biemens	rippioved
GP-	CR 45 001-004 Introduction of adaptive half rate speech	Nokia Friesson	Approved
012350	channels with 8-PSK modulation (Rel-5)	Tokia, Lifesson	rippioved
GP-	CR 45 001-005 Correction of description AMR channel	Friesson	Approved
012363	convolutional code rate (Rel-4)	Lifesson	rippiorea
GP-	CR 45 001-006 Correction of description Widehand AMR	Friesson	Approved
012364	channel coding (Rel-5)	Lifesson	nppioved
GP-	CR 45 001-007 Correction of references to relevant 3GPP	Friesson	Revised
012366	TSs (Rel.4)	Lifesson	ICC VISCU
GP-	CR 45 001-007 rev 1 Correction of references to relevant	Friesson	Approved
012766	3GPP TSs (Rel.4)	Lifesson	nppioved
GP-	CR 45 001-008 Correction of references to relevant 3GPP	Friesson	Revised
012367	TSs (Rel-5)	Lifesson	ite vised
GP-	CR 45 001-008 rev 1 Correction of references to relevant	Friesson	Approved
012767	3GPP TSs (Rel_5)	Lifesson	Appioved
GP-	CR 45.001-009 Coding rate of MCS3 (Rel 4)	Nokia	Approved
012508	CR 45.001-007 Couning rate of MCS5 (Ref 4)	Nokia	Appioved
GP-	CR 45 001-010 Coding rate of MCS (Rel 5)	Nokia	Annroved
012500	CR + 5.001 - 010 County fact of MCS (Ref 5)	ιτοκια	rpproved
GP-	CR 45 002-023 F-OTD and Dummy Rursts on the RCCH	Ericsson	Rejected
012302	Carrier (Rel 4)		itejeettu
512502			

Tdoc	Title	Source	Status
GP-	CR 45.002-024 E-OTD and Dummy Bursts on the BCCH	Ericsson	Rejected
012303	Carrier (Rel 5)		-
GP-	CR 45.002-025 Introduction of adaptive half rate speech	Nokia, Ericsson	Revised
012351	channels with 8-PSK modulation (Rel-5)		
GP-	CR 45.002-025 rev 1 Introduction of adaptive half rate	Nokia, Ericsson	Approved
012746	speech channels with 8-PSK modulation (Rel-5)		
GP-	CR 45.002-026 Editorial correction of average number of	Ericsson	Rejected
012365	symbol periods in a time slot (Rel-4)		U U
GP-	CR 45.002-027 Correction of references to 3GPP	Ericsson	Revised
012368	specifications (Rel-4)		
GP-	CR 45.002-027 rev 1 Correction of references to 3GPP	Ericsson	Approved
012768	specifications (Rel-4)		
GP-	CR 45.002-028 Correction of references to 3GPP	Ericsson	Revised
012369	specifications (Rel-5)		
GP-	CR 45.002-028 rev 1Correction of references to 3GPP	Ericsson	Approved
012769	specifications (Rel-5)		
GP-	CR 45.002-029 High multislot classes for type 1 mobiles	BT, Motorola	Revised
012413	(Rel 5)	,	
GP-	CR 45.002-029 rev 1 High multislot classes for type 1	Motorola	Approved
012762	mobiles (Rel 5)		11
GP-	CR 45.002-030 Training Sequence Code on	Ericsson	Rejected
012522	PBCCH/PCCCH (Rel 4)		5
GP-	CR 45.002-031 Training Sequence Code on	Ericsson	Revised
012523	PBCCH/PCCCH (Rel 5)		
GP-	CR 45.002-031 rev 1 Training Sequence Code on	Ericsson	Approved
012649	PBCCH/PCCCH (Rel 5)		11
GP-	CR 45.002-032 Correction of minimum number of paging	Alcatel	Rejected
012629	blocks "available" on one PCCCH (Rel 4)		5
GP-	CR 45.002-033 Correction of minimum number of paging	Alcatel	Approved
012630	blocks "available" on one PCCCH (Rel 5)		
GP-	CR 45.003-009 Correction of references to relevant 3GPP	Ericsson	Revised
012370	TSs (Rel-4)		
GP-	CR 45.003-009 rev 1 Correction of references to relevant	Ericsson	Approved
012770	3GPP TSs (Rel-4)		
GP-	CR 45.003-010 Correction of references to relevant 3GPP	Ericsson	Revised
012371	TSs (Rel-5)		
GP-	CR 45.003-010 rev 1 Correction of references to relevant	Ericsson	Approved
012771	3GPP TSs (Rel-5)		
GP-	CR 45.003-011 Update of channel coding and interleaving	Siemens	Withdrawn
012283	organization (Rel 5)		
GP-	CR 45.003-012 Update of channel coding and interleaving	Siemens	Revised
012284	organization (Rel 5)		
GP-	CR 45.003-012 rev 1 Update of channel coding and	Siemens	Approved
012650	interleaving organization (Rel 5)		
GP-	CR 45.003-013 Addition of RATSCCH for TCH/WFS	Nokia	Postponed
012504	(Rel 5)		-
GP-	CR 45.003-014 Correction of interleaving index	Siemens	Approved
012758	-		

Tdoc	Title	Source	Status
GP-	CR 45.004-002 Correction of tail bits for 8PSK normal	Ericsson	Approved
012359	burst (REL-4)		
GP-	CR 45.004-003 Correction of tail bits for 8PSK normal	Ericsson	Approved
012360	burst (REL-5)		
GP-	CR 45.004-004 Correction of references to relevant 3GPP	Ericsson	Approved
012372	TSs (Rel-4)		
GP-	CR 45.005-007 rev 2 Introduction of requirements for	Ericsson	Revised
012352	adaptive half rate speech channels with 8-PSK modulation		
	(Rel-5)		
GP-	CR 45.005-007 rev 3 Introduction of requirements for	Ericsson	Approved
012747	adaptive half rate speech channels with 8-PSK modulation		
	(Rel-5)		
GP-	CR 45.005-035 Correction of references to relevant 3GPP	Ericsson	Revised
012373	TSs (Rel-4)		
GP-	CR 45.005-035 rev 1 Correction of references to relevant	Ericsson	Approved
012772	3GPP TSs (Rel-4)		
GP-	CR 45.005-036 Correction of references to relevant 3GPP	Ericsson	Revised
012374	TSs (Rel-5)		
GP-	CR 45.005-036 rev 1 Correction of references to relevant	Ericsson	Approved
012773	3GPP TSs (Rel-5)		
GP-	CR 45.005-037 Correction to wideband AMR receiver	Nokia	Approved
012777	performance tables		
GP-	CR 45.005-038 Introduction of AMR-WB Rx performance	Nokia	Postponed
012793	(Rel 5)		
GP-	CR 45.008-060 Clarification on Packet Enhanced	Nokia	Approved
012222	Measurement Reporting (Rel 4)		
GP-	CR 45.008-061 Clarification on Packet Enhanced	Nokia	Approved
012223	Measurement Reporting (Rel 5)		
GP-	CR 45.008-062 Introduction of adaptive half rate speech	Nokia, Ericsson	Approved
012353	channels with 8-PSK modulation (Rel-5)		
GP-	CR 45.008-063 Introduction of accuracy requirements for	Ericsson	Approved
012356	RXQUAL_EPC (REL-5)		
GP-	CR 45.008-064 Correction of references to relevant 3GPP	Ericsson	Revised
012375	specifications (Rel-4)		
GP-	CR 45.008-064 rev 1 Correction of references to relevant	Ericsson	Approved
012774	3GPP specifications (Rel-4)		
GP-	CR 45.008-065 Correction of references to relevant 3GPP	Ericsson	Revised
012376	specifications (Rel-5)		
GP-	CR 45.008-065 rev 1 Correction of references to relevant	Ericsson	Approved
012775	3GPP specifications (Rel-5)		
GP-	CR 45.008-066 Introduction of GPRS-State-dependant	Vodafone	Withdrawn
012392	search/cell-reselection to UTRAN (Rel 5)		
GP-	CR 45.008-067 Clarification of the cell-reselection to	Vodafone	Withdrawn
012394	UTRAN (Rel 4)		
GP-	CR 45.008-068 Number of cells/frequencies to be	Vodafone	Approved
012396	monitored by a dual mode terminal (Rel 4)		
GP-	CR 45.008-069 Number of cells/frequencies to be	Vodafone	Approved
012397	monitored by a dual mode terminal (Rel 5)		

Tdoc	Title	Source	Status
GP-	CR 45.008-070 Correction of parameters related to	Motorola	Revised
012409	enhanced and 3G measurements (Rel 4)		
GP-	CR 45.008-070 rev 1 Correction of parameters related to	Motorola	Approved
012760	enhanced and 3G measurements (Rel 4)		
GP-	CR 45.008-071 Correction of parameters related to	Motorola	Revised
012410	enhanced and 3G measurements (Rel 5)		
GP-	CR 45.008-071 rev 1 Correction of parameters related to	Motorola	Approved
012761	enhanced and 3G measurements (Rel 5)		
GP-	CR 45.008-072 NDRX definition (Rel 4)	Motorola	Rejected
012411			
GP-	CR 45.008-073 NDRX definition (Rel 5)	Motorola	Approved
012412			
GP-	CR 45.008-074 Corrections and improvements for	Telia, Nokia	Rejected
012486	abnormal cell reselection (Rel 4)		
GP-	CR 45.008-075 Corrections and improvements for	Telia, Nokia	Approved
012487	abnormal cell reselection (Rel 5)		
GP-	CR 45.008-076 Clarification on UTRAN FDD RSSI	Nokia	Approved
012489	reporting (Rel 4)		
GP-	CR 45.008-077 Clarification on UTRAN FDD RSSI	Nokia	Approved
012490	reporting (Rel 5)		
GP-	CR 45.008-078 Alignment of REPORT_TYPE parameter	Nokia	Withdrawn
012492	definition according to 04.18 & 04.60 (Rel 4)		
GP-	CR 45.008-079 Alignment of REPORT_TYPE parameter	Nokia	Withdrawn
012493	definition according to 04.18 & 04.60 (Rel 5)		
GP-	CR 45.008-080 Clarification on the applicability of the	Nokia	Revised
012495	SERVING_BAND_REPORTING (Rel 4)		
GP-	CR 45.008-080 rev 1 Clarification on the applicability of	Nokia	Withdrawn
012764	the SERVING_BAND_REPORTING (Rel 4)		
GP-	CR 45.008-081 Clarification on the applicability of the	Nokia	Revised
012496	SERVING_BAND_REPORTING (Rel 5)		
GP-	CR 45.008-081 rev 1 Clarification on the applicability of	Nokia	Withdrawn
012765	the SERVING_BAND_REPORTING (Rel 5)		
GP-	CR 45.008-082 Alignment of predefined configuration	Nokia	Approved
012498	handling according to RAN 2 views (Rel 4)		
GP-	CR 45.008-083 Alignment of predefined configuration	Nokia	Approved
012499	handling according to RAN 2 views (Rel 5)		
GP-	CR 45.009-003 Introduction of adaptive half rate speech	Nokia, Ericsson	Approved
012354	channels with 8-PSK modulation (Rel-5)		
GP-	CR 45.009-004 Correction of references to relevant 3GPP	Ericsson	Approved
012377	specifications (Rel-4)		
GP-	CR 45.009-005 Correction of references to relevant 3GPP	Ericsson	Approved
012378	specifications (Rel-5)		
GP-	CR 45.009-006 CHANNEL MODE MODIFY, phase and	Motorola	Revised
012406	RATSCCH (Rel 4)		
GP-	CR 45.009-006 rev 1 CHANNEL MODE MODIFY, phase	Motorola	Approved
012743	and RATSCCH (Rel 4)		
GP-	CK 45.009-007 CHANNEL MODE MODIFY, phase and	Motorola	Revised
012407	KATSCCH (Rel 5)		

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GP-	CR 45.009-007 rev 1 CHANNEL MODE MODIFY, phase	Motorola	Approved
012744	and RATSCCH (Rel 5)		
GP-	CR 45.010-001 Correction of references to relevant 3GPP	Ericsson	Revised
012379	TSs (Rel-4)		
GP-	CR 45.010-001 rev 1 Correction of references to relevant	Ericsson	Approved
012776	3GPP TSs (Rel-4)		11
GP-	CR 48.002-002 Correction of wrongly implemented CR	G2-secretary	Approved
012045	(Rel 4)		
GP-	CR 48.008-034 rev 1 Introduction of Signalling for	Nokia	Approved
012046	Adaptive multi rate speech channel at 8-PSK half rate (O-		
012010	TCH/AHS) (Rel 5)		
GP-	CR 48 008-035 Transparent RRC containers in 2G-3G	Ericsson	Revised
012319	Handover Signalling (Rel-4)		ite vibeu
GP-	CR 48 008-035 rev 1 Transparent RRC containers in 2G-	Friesson	Revised
012639	3G Handover Signalling (Rel-4)		ite vibeu
GP-	CR 48 008-035 rev 2 Transparent RRC containers in 2G-	Friesson	Revised
012691	3G Handover Signalling (Rel-4)	Lifesson	ite vibeu
GP-	CR 48 008-035 rev 3 Transparent RRC containers in 2G-	Friesson	Approved
012831	3G Handover Signalling (Rel-4)	Lifesson	Apploved
GP_	CR 48.008-036 Transparent RRC containers in 2G-3G	Friesson	Revised
012320	Handover Signalling (Rel 5)	Lifesson	Ke vised
GP-	CR 48.008-036 rev 1 Transparent RRC containers in 2G	Friesson	Revised
012640	3G Handover Signalling (Rel 5)	Lifesson	Ke vised
GP-	CR 48.008-036 rev 2 Transparent RRC containers in 2G	Friesson	Revised
012602	3G Handover Signalling (Rel_5)	Lifesson	Ke vised
GP-	CR 48 008-036 rev 3 Transparent RRC containers in 2G	Friesson	Approved
012832	3G Handover Signalling (Rel_5)	Lifesson	Appioved
GP-	CR 48 016.005 Editorial Corrections (Rel 5)	MCC	Approved
012171	er 40.010-005 Editorial Concertoirs (Ref 5)	MCC	Appioved
GP	CP 48 018 047 ray 1 Inter NSE Call Change for LCS for	Friesson	Pavisad
01-	$GPRS(R_{a} 5)$	Lifesson	Keviseu
GP-	CR 48 018 047 rev 2 Inter NSE Cell Change for LCS for	Friesson	Revised
012711	$CPPS(P_{a} 5)$	Lifesson	Keviseu
GP	CP 48 018 047 ray 3 Inter NSE Call Change for LCS for	Friesson	Approved
012802	CR + 0.010 - 047 rev 5 liner NSE Cen Change for ECS for $CPPS (P_{a} 5)$	LIICSSOII	Appioved
GP	CP 48 018 048 Correction of Feature Bitman IF (Bel 5)	Friesson	Approved
012047	CK 48.018-048 Collection of Peature Diffiap IE (Ker 5)	LIICSSOII	Appioved
GP	CP 48 018 050 Cleanup for LCS for CPPS (Pal 5)	Friesson	Approved
012048	CK 40.010-050 Cleanup for LCS for OFKS (Ker 5)	LIICSSOII	Appioved
012040 CP	CP 48 018 051 Correction of code points in IEI (Pol 4)	MCC	Dejected
012164	CK 48.018-051 Collection of code points in IEI (Kei 4)	MCC	Rejected
012104 CP	CP 48 018 052 Correction of code points in IEI (Pal 5)	MCC	Dejected
012165	CK 48.018-052 Collection of code points in IEI (Kei 5)	MCC	Rejected
012103 CP	CP 48 018 053 Correction of code points in IEI (Pol 4)	MCC	Dejected
012167	CK 48.018-055 Collection of code points in IEI (Kei 4)	MCC	Rejected
01210/ CD	CD 48 018 054 Correction of code points in IEI (Del 5)	MCC	Dojantad
012169	CK 46.016-034 Contection of code points in IEI (Kel 5)	MICC	Rejected
GP-	CR 18 018 055 Editorial Corrections (Pal 5)	MCC	Approved
012172	CR +0.010-055 Editorial Contentons (Ref 5)		Appioved
0121/2			

Tdoc	Title	Source	Status
GP-	CR 48.018-056 LCS Capabilities refer to 24.008 (Rel 5)	Ericsson, Siemens	Approved
012304	-		
GP-	CR 48.018-057 Introduction of RAN Information	Ericsson	Postponed
012461	Management (Rel 5)		_
GP-	CR 48.018-058 Introduction of Global CN-ID when CS	Ericsson	Postponed
012540	paging is done via the PS domain (Rel 5)		-
GP-	CR 48.018-059 Inter NSE Cell Change for LCS for GPRS	Alcatel	Withdrawn
012577	(Rel 5)		
GP-	CR 48.018-060 Alternative solution for Inter NSE Cell	Alcatel	Withdrawn
012578	Change for LCS for GPRS (Rel 5)		
GP-	CR 48.051-001 rev 1 Correction of phrasing error (Rel 4)	G2-secretary	Approved
012049			
GP-	CR 48.058-003 Introduction of Signalling for Adaptive	Nokia	Approved
012050	multi rate speech channel at 8-PSK half rate (O-		
	TCH/AHS) (Rel 5)		
GP-	CR 48.058-004 Editorial Corrections (Rel 5)	MCC	Approved
012173			
GP-	CR 48.071-003 Correction of faulty reference (Rel 4)	Ericsson	Approved
012051	• • • •		
GP-	CR 48.071-005 rev 1 Cell Identity for Measurement	Ericsson	Withdrawn
011996	Report (Rel 4)		
GP-	CR 48.071-006 Adding of Cell Identifier List related to	Alcatel	Revised
012567	Measurement report information (Rel 4)		
GP-	CR 48.071-006 rev 1 Addition of Cell Identifier List	Alcatel	Approved
012820	related to Measurement report information (Rel-4)		
GP-	CR 48.071-007 Correction of Cause IE reference (Rel 4)	Siemens	Withdrawn
012602			
GP-	CR 49.031-007 Define IE's order of appearance in BSSAP-	Siemens	Approved
012052	LE message (Rel 4)		
GP-	CR 49.031-008 Define IE's order of appearance in BSSAP-	Siemens	Approved
012053	LE message (Rel 5)		
GP-	CR 49.031-009 Removal of invalid cross reference (Rel 4)	G2-secretary	Approved
012054			
GP-	CR 49.031-010 Removal of invalid cross reference (Rel 5)	G2-secretary	Approved
012055			
GP-	CR 49.031-011 rev 1 Inter NSE Cell Change for LCS for	Ericsson	Revised
011990	GPRS (Rel 5)		
GP-	CR 49.031-011 rev 2 Inter NSE Cell Change for LCS for	Ericsson	Revised
012712	GPRS (Rel 5)		
GP-	CR 49.031-011 rev 3 Inter NSE Cell Change for LCS for	Ericsson	Approved
012803	GPRS (Rel 5)		
GP-	CR 49.031-012 rev 1 Cell Identity for Packet Measurement	Ericsson	Postponed
011995	Report (Rel 5)		
GP-	CR 49.031-013 Adding of Cell Identifier List related to	Alcatel	Approved
012568	Packet Measurement report information (Rel 5)		
GP-	CR 49.031-013 rev 1 Addition of Cell Identifier List	Alcatel	Withdrawn
012821	related to Packet Measurement report information (Rel-5)		
GP-	CR 49.031-014 Editorial Corrections (Rel 5)	MCC	Approved
012174			

Tdoc	Title	Source	Status
GP-	CR 49.031-015 Define number of keys in Deciphering	Nortel Networks,	Revised
012213	Keys IE (Rel 4)	Siemens	
GP-	CR 49.031-015 rev 1 Define number of keys in	Siemens,Nortel	Approved
012808	Deciphering Keys IE (Rel-4)		
GP-	CR 49.031-016 Define number of keys in Deciphering	Nortel Networks,	Revised
012214	Keys IE (Rel 5)	Siemens	
GP-	CR 49.031-016 rev 1 Define number of keys in	Siemens,Nortel	Approved
012809	Deciphering Keys IE (Rel-5)		
GP-	CR 51.010-1-332 Clauses 26.6.5.3 and 26.6.5.4 -	GERAN WG5	Approved
012063	Handover / successful / finely synchronized (Rel-4) (G5-		11
	010045)		
GP-	CR 51.010-1-333 Clause 27.x – Testing of SIM/ME	GERAN WG5	Approved
012064	interface. Alignment of Section 27.x with the core		
	specifications (Rel-4) (G5-010044)		
GP-	CR 51.010-1-334 Clause 31.11 - Specific message	GERAN WG5	Approved
012065	contents and ASN.1 codings (change apply for TC		11
	31.2.1.1.1) (Rel-4) (G5-010041)		
GP-	CR 51.010-1-335 TC 31.2.1.7.2 - Correction of Test	GERAN WG5	Approved
012066	procedure (Rel-4) (G5-010139)		II ····
GP-	CR 51.010-1-336 Clauses 31.8.3.1. 31.8.3.2.2. 31.8.4.1.	GERAN WG5	Approved
012067	31.8.4.2.2 and 31.11 – Call Restriction (Call Barring)		II
	Activation/Deactivation (Rel-4) (G5-010140)		
GP-	CR 51.010-1-337 TC 31.9.1.2 - Correction of step	GERAN WG5	Approved
012068	references in Expected Message Sequence and Specific		
012000	Message Contents (Rel-4) (G5-010141)		
GP-	CR 51.010-1-338 Clause 34.2.9.1 and 34.2.9.2 - Multiple	GERAN WG5	Approved
012069	SMS mobile originated (Rel-4) (G5-010040)		
GP-	CR 51.010-1-339 Clause 6.2 – Full hopping lists invalid	GERAN WG5	Approved
012070	for GPRS Generic Procedures (Rel-4) (G5-010113)		
GP-	CR 51.010-1-340 Clause 40 – GPRS default conditions.	GERAN WG5	Approved
012071	message contents and macros (Rel-4) (G5-010145)		
GP-	CR 51.010-1-341 Clause 44.2.1.1.1 GPRS attach /	GERAN WG5	Approved
012072	accepted (Rel-4) (G5-010052)		
GP-	CR 51.010-1-342 Clause 44.2.1.1.3: Modifications to	GERAN WG5	Approved
012073	Expected Sequence (Rel-4) (G5-010077)		
GP-	CR 51.010-1-343 Clause: 44.2.1.1.4 GPRS attach /	GERAN WG5	Approved
012074	rejected / PLMN not allowed. 44.2.3.2.4 Combined routing		
	area updating / rejected / PLMN not allowed (Rel-4) (G5-		
	010146)		
GP-	CR 51.010-1-344 Clause 44.2.1.1.6: Various Modifications	GERAN WG5	Approved
012075	(Rel-4) (G5-010078)		
GP-	CR 51.010-1-345 Clause 44.2.1.2.2 (Rel-4) (G5-010147)	GERAN WG5	Approved
012076			
GP-	CR 51 010-1-346 Clause 44 2 1 2 3 (Rel-4) (G5-010162)	GERAN WG5	Approved
012077			
GP-	CR 51.010-1-347 Clause 44.2.1.2.4 Combined GPRS	GERAN WG5	Approved
012078	attach / rejected / IMSI invalid / illegal ME (Rel-4) (G5-		-rr-0,00
	010150)		
	/		

Tdoc	Title	Source	Status
GP-	CR 51.010-1-348 Clause 44.2.1.2.5 (Rel-4) (G5-010151)	GERAN WG5	Approved
012079			11
GP-	CR 51.010-1-349 Clause 44.2.1.2.6 Need to ensure mobile	GERAN WG5	Approved
012080	performs IMSI Attach procedure (Rel-4) (G5-010152)		11
GP-	CR 51.010-1-350 Clause 44.2.1.2.7 Combined GPRS	GERAN WG5	Approved
012081	attach / rejected / location area not allowed (Rel-4) (G5-		II
	010153)		
GP-	CR 51.010-1-351 Clause 44.2.1.2.8 (Rel-4) (G5-010154)	GERAN WG5	Approved
012082			II
GP-	CR 51.010-1-352 Clause 44.2.2.1.2: Correction of	GERAN WG5	Approved
012083	Expected Sequence (Rel-4) (G5-010084)		11
GP-	CR 51.010-1-353 Clause 44.2.2.1.2 GPRS detach /	GERAN WG5	Approved
012084	accepted (Rel-4) (G5-010059)		II
GP-	CR 51.010-1-354 Clause 44.2.2.1.3: Various Corrections	GERAN WG5	Approved
012085	(Rel-4) (G5-010085)		
GP-	CR 51.010-1-355 Clause 44.2.2.1.4: Correction of	GERAN WG5	Approved
012086	Expected Sequence (Rel-4) (G5-010086)		11
GP-	CR 51.010-1-356 Clause 44.2.2.1.8: Correction of	GERAN WG5	Approved
012087	Expected Sequence (Rel-4) (G5-010087)		11
GP-	CR 51.010-1-357 Clause 44.2.2.2.1 GPRS detach / re-	GERAN WG5	Approved
012088	attach not required / accepted (Rel-4) (G5-010063)		11
GP-	CR 51.010-1-358 Clause 44.2.2.2.2: Correction of	GERAN WG5	Approved
012089	Expected Sequence (Rel-4) (G5-010088)		
GP-	CR 51.010-1-359 Clause 44.2.2.2.5: Correction of	GERAN WG5	Approved
012090	Expected Sequence (Rel-4) (G5-010089)		
GP-	CR 51.010-1-360 Clause 44.2.3.1.2 Routing area updating	GERAN WG5	Approved
012091	/ rejected / IMSI invalid / illegal ME (Rel-4) (G5-010064)		
GP-	CR 51.010-1-361 Clause 44.2.3.1.2 (Rel-4) (G5-010090)	GERAN WG5	Approved
012092			
GP-	CR 51.010-1-362 Clause 44.2.3.1.3 Routing area updating	GERAN WG5	Approved
012093	/ rejected / MS identity cannot be derived by the network		
	(Rel-4) (G5-010065)		
GP-	CR 51.010-1-363 Clause 44.2.3.1.3 (Rel-4) (G5-010091)	GERAN WG5	Approved
012094			
GP-	CR 51.010-1-364 Clause 44.2.3.1.4 (Rel-4) (G5-010092)	GERAN WG5	Approved
012095			
GP-	CR 51.010-1-365 Clause 44.2.3.1.6 (Rel-4) (G5-010094)	GERAN WG5	Approved
012096			
GP-	CR 51.010-1-366 Clause 44.2.3.1.7 (Rel-4) (G5-010095)	GERAN WG5	Approved
012097			
GP-	CR 51.010-1-367 Clause 44.2.3.1.8 (Rel-4) (G5-010096)	GERAN WG5	Approved
012098			
GP-	CR 51.010-1-368 Clause 44.2.3.2.2 – Circuit switch call	GERAN WG5	Approved
012099	handover not indicated in test description (Rel-4) (G5-		
	010157)		
GP-	CR 51.010-1-369 Clause 44.2.3.2.3: Various Corrections	GERAN WG5	Approved
012100	of Test Procedure 2 (Rel-4) (G5-010097)		

Tdoc	Title	Source	Status
GP-	CR 51.010-1-370 Clause 44.2.3.2.4 GMM Cause # 11	GERAN WG5	Approved
012101	"PLMN Not Allowed" Used on HPLMN & MM Location		
	Update for Non-Auto Attach MSs missing (Rel-4) (G5-		
	010136)		
GP-	CR 51.010-1-371 Clause 44.2.3.2.5 GMM Cause # 13	GERAN WG5	Approved
012102	"Roaming Not Allowed in this Location Area" Used on		
	HPLMN & MM Location Update for Non-Auto Attach		
	MSs not included (Rel-4) (G5-010158)		
GP-	CR 51.010-1-372 Clause 44.2.3.2.6: Various Corrections	GERAN WG5	Approved
012103	(Rel-4) (G5-010098)		11
GP-	CR 51.010-1-373 Clause 44.2.3.2.7: Various Corrections	GERAN WG5	Approved
012104	(Rel-4) (G5-010099)		
GP-	CR 51.010-1-374 Update type should be 'combined	GERAN WG5	Approved
012105	RA/LA updating with IMSI attach ' in section 44.2.3.3.3		11
	(Rel-4) (G5-010124)		
GP-	CR 51.010-1-375 Clause 44.2.5.1.2 Authentication	GERAN WG5	Approved
012106	rejected (Rel-4) (G5-01070)		
GP-	CR 51.010-1-376 Clause 44.2.5.2.2 Conformance	GERAN WG5	Approved
012107	Requirement 2 Inconsistent with Test Case Title and		
	Expected Sequence (Rel-4) (G5-010138)		
GP-	CR 51.010-1-377 Clause 45.2.1.1 – need to prevent MS	GERAN WG5	Approved
012108	starting update procedure (Rel-4) (G5-010010)		
GP-	CR 51.010-1-378 Clause 45.2.1.1 Attach initiated by	GERAN WG5	Approved
012109	context activation/QoS Offered by Network is the QoS		
	Requested (Rel-4) (G5-010071)		
GP-	CR 51.010-1-379 Clause 45.2.2 – Extension of reject cause	GERAN WG5	Approved
012110	to match conformance requirement (Rel-4) (G5-010012)		
GP-	CR 51.010-1-380 Clause 45.2.4.2 Collision of MS initiated	GERAN WG5	Approved
012111	and network requested PDP context activation (Rel-4)		
	(G5-010160)		
GP-	CR 51.010-1-381 Clause 46.1.2.2.2.2 Busy condition at the	GERAN WG5	Approved
012112	peer, with RR sent for resumption of transmission (Rel-4)		
	(G5-010166)		
GP-	CR 51.010-1-382 Correction to section 45.5.1 Error cases	GERAN WG5	Approved
012113	(Rel-4) (G5-010155)		
GP-	CR 51.010-1-383 GPRS Attach Type in NMO I (Rel-4)	GERAN WG5	Approved
012114	(G5-010163)		
GP-	CR 51.010-1-384 Clause 44.2.3.1.5 (Rel-4) (G5-010164)	GERAN WG5	Approved
012115			
GP-	CR 51.010-1-385 on clause 53.2.2.2 - Macro for downlink	TSG GERAN WG4	Approved
012229	TBF establishment (PBCCH not present) Rel-4		
GP-	CR 51.010-1-386 on clause 52.2.4.2.1, Table 52.2.4.2.1/1b	TSG GERAN WG4	Approved
012230	- Macro for uplink fixed allocation one phase access		
	(PBCCH not present) Rel-4		
GP-	CR 51.010-1-387 on clauses 51.2.2.1 to 51.2.2.5 and	TSG GERAN WG4	Approved
012231	51.2.3.1 to 51.2.3.11 - Initiation of the packet access		
	procedure and Packet immediate assignment / One phase		
	packet access Rel-4		

Tdoc	Title	Source	Status
GP-	CR 51.010-1-388 on GSM 700 and GSM850 inclusion into	TSG GERAN WG4	Approved
012232	clause 41 Rel-4		
GP-	CR 51.010-1-389 on 52.3.1.1.4 Incorrect Expected	TSG GERAN WG4	Approved
012233	Sequence for Uplink TBF Establishment Rel-4		
GP-	CR 51.010-1-390 on 52.3.2.1.2 Violation of Ttb Class 2/3	TSG GERAN WG4	Approved
012234	MS Rel-4		
GP-	CR 51.010-1-391 on 52.3.3.1.3, Radio Priority for SMS	TSG GERAN WG4	Approved
012235	Rel-4		
GP-	CR 51.010-1-392 on testcase 43.1.2.3 - Incorrect PDP	TSG GERAN WG4	Approved
012236	context Rel-4		
GP-	CR 51.010-1-393 on testcase 43.1.2.4 - Incorrect PDP	TSG GERAN WG4	Approved
012237	context Rel-4		
GP-	CR 51.010-1-394 on 42.5.2.2 Commencement of	TSG GERAN WG4	Approved
012238	Downlink RLC Data Blocks & Completion of Downlink		
	Data Transfer Rel-4		
GP-	CR 51.010-1-395 on 42.4.3.2.3 Packet Measurement Order	TSG GERAN WG4	Approved
012239	Message Rel-4		
GP-	CR 51.010-1-396 on clause 42.1.2.2.3 - Packet Downlink	TSG GERAN WG4	Approved
012240	Assignment / Frequency hopping Rel-4		
GP-	CR 51.010-1-397 on clause 42.3.4 - Invalid default Packet	TSG GERAN WG4	Approved
012241	Timeslot Reconfigure Rel-4		
GP-	CR 51.010-1-398 on Test case 41.2.1.1 completely re-	TSG GERAN WG4	Approved
012242	worked Rel-4		
GP-	CR 51.010-1-399 on Testcase 41.3.4.2 - Invalid setting of	TSG GERAN WG4	Approved
012243	FBI bit in data blocks. Rel-4		
GP-	CR 51.010-1-400 on testcase 43.1.1.3 - Wrong sequence of	TSG GERAN WG4	Approved
012244	flow of data blocks. Rel-4		
GP-	CR 51.010-1-401 on testcase 41.2.3.2 - Invalid test	TSG GERAN WG4	Approved
012245	procedure for two message immediate assignment failure.		
	Rel-4		
GP-	CR 51.010-1-402 on testcase 41.2.3.10 Access burst	TSG GERAN WG4	Approved
012246	content is not correct Rel-4		A 1
GP-	CR 51.010-1-403 on Specific Message Contents is not	TSG GERAN WG4	Approved
012247 CD	CONSISTENT IN TEST CASES 42.1.1.1.2 Rel-4		A
GP-	CK 51.010-1-404 on Sec 42 - Invalid use of Packet	ISG GERAN WG4	Approved
012248	1 imesiot reconfigure message in testcases $42.3.1.1.3$,		
CD	42.5.1.1.4, 42.5.1.1.9, 42.5.2.2, 42.5.5. Kel-4	TSC CEDAN WC4	Annewad
GP- 012240	CK 51.010-1-405 on Time of check is very long in Test	ISO GERAN WO4	Approved
012249 CP	CB = 51, 010, 1, 406 on alouse 42.1, now toot asso. Non	TSC CEDAN WC4	Approved
012250	DPV Mode on DCCCH Pal 4	150 ULKAN WU4	Appioveu
GP_	CR 51 010-1-407 on clause 42.1 - new test case - Variable	TSG GERAN WGA	Approved
012251	PBCCH and PSI Scheduling Rel-A		Appioved
GP-	CR 51 010-1-408 on 42 5 3 1- T3190 following TBE	TSG GERAN WG4	Approved
012252	Starting Time & Completion of Downlink Data Transfer		1 PP10 / Cu
GP-	CR 51 010-1-409 on 42 5 1 2 & 42 5 2 3 - No Timing	TSG GERAN WG4	Approved
012253	Advance Value Allocated & Completion of Downlink		- PP10,00
	Data Transfer Rel-4		

Tdoc	Title	Source	Status
GP-	CR 51.010-1-410 on 42.5.4.1 & 42.5.4.2- No Timing	TSG GERAN WG4	Approved
012254	Advance Allocated & Commencement of Downlink Data		
	Blocks & MS Packet Idle Mode Not Checked Rel-4		
GP-	CR 51.010-1-411 on 42.5.1.1 No Timing Advance Value	TSG GERAN WG4	Approved
012255	Allocated Rel-4		
GP-	CR 51.010-1-412 on clause 41.3.1 - TBF Release / Uplink	TSG GERAN WG4	Approved
012256	/ Normal / MS initiated Rel-4		
GP-	CR 51.010-1-413 on clause 42.3.1.1.5 - Dynamic	TSG GERAN WG4	Approved
012257	Allocation / UplinkTransfer / Normal / Close-ended TBF		
	Rel-4		
GP-	CR 51.010-1-414 on Sec 42.5.5.1 - Invalid calculation of	TSG GERAN WG4	Approved
012258	value of timer T3192 Rel-4		
GP-	CR 51.010-1-415 on clause 43.1.2.4 - Acknowledged	TSG GERAN WG4	Approved
012259	mode / Downlink TBF /Re-assembly / Length Indicator/		
	Incorrect PDP context Rel-4		
GP-	CR 51.010-1-416 on clause 41.1.1.5.1.3 - Requirement to	TSG GERAN WG4	Approved
012260	re-attach the MS after first iteration of test Rel-4		
GP-	CR 51.010-1-417 on clause 41.2.3.3 - Requirement for	TSG GERAN WG4	Approved
012261	Location Update at beginning of test for non auto attach		
	mobiles Rel-4		
GP-	CR 51.010-1-418 on 52.4.1.2 Ready Timer and Cell	TSG GERAN WG4	Approved
012262	Update Procedures Rel-4		
GP-	CR 51.010-1-419 on clause 41.2.2.3 - Random references	TSG GERAN WG4	Approved
012263	for one phase packet access. Rel-4		
GP-	CR 51.010-1-420 on clauses 51.2.4 - Packet immediate	TSG GERAN WG4	Withdrawn
012264	assignment / Single block packet access Rel-4		
GP-	CR 51.010-1-421 on clause 20.22 - GPRS Cell Selection	TSG GERAN WG4	Approved
012265	and Reselection Rel-4		
GP-	CR 51.010-1-422 on S52.1 EGPRS Tests for MAC	TSG GERAN WG4	Approved
012266	procedures on PCCCH in Idle Mode Rel-4		
GP-	CR 51.010-1-423 on Test cases 42.1.2.8.2.1 and	TSG GERAN WG4	Approved
012267	42.1.2.8.2.2 need more data to be triggered Rel-4		
GP-	CR 51.010-1-424 on 42.5.2.1.4 TIMING ADVANCE	TSG GERAN WG4	Approved
012268	value in PACKET DOWNLINK ASSIGNMENT Rel-4		
GP-	CR 51.010-1-425 on 42.5.2.2.4 Wrong contents of	TSG GERAN WG4	Approved
012269	CRTL_ACK in PCA of step 4 Rel-4		
GP-	CR 51.010-1-426 on No starting time in 42.5.4.1 Rel-4	TSG GERAN WG4	Approved
012270			
GP-	CR 51.010-1-427 on No starting time in 42.5.4.2 Rel-4	TSG GERAN WG4	Approved
012271			
GP-	CR 51.010-1-428 on Number of octets in data transfer of	TSG GERAN WG4	Approved
012272	43.1.1.4 Rel-4		
GP-	CR 51.010-1-429 EGPRS defaults, message contents and	Rohde-Schwartz	Revised
012128	macros		
GP-	CR 51.010-1-429 rev 1 EGPRS defaults, message contents	Rohde-Schwartz	Approved
012733	and macros		
GP-	CR 51.010-1-430 Clause 40 - PSI Scheduling Change	Anite Telecoms	Rejected
012136	From WG5#1 Not Necessary (Rel-4)		

Tdoc	Title	Source	Status
GP-	CR 51.010-1-431 Clause 44.2.5.2.1 - No Need To Check	Anite Telecoms	Withdrawn
012137	For Ciphering At With LLC Page Response (Rel-4)		
GP-	CR 51.010-1-432 Clause 42.1.2.1.5 - S/P Needs To Be Set	Anite Telecoms	Withdrawn
012138	(Dynamic Allocation) For Acknowledgement of Final		
	Block (Rel-4) - WITHDRAWN		
GP-	CR 51.010-1-433 Clause 42.1.2.1.6 - Test Case Needs To	Anite Telecoms	Approved
012139	BE Aligned To Current Section 40 Defaults (Rel-4)		
GP-	CR 51.010-1-434 Clause 42.1.2.2.1 - Need To Align PSI2	Anite Telecoms	Approved
012140	Definition To Current Section 40 Defaults (Rel-4)		
GP-	CR 51.010-1-435 Clause 42.1.2.2.3 - There Is No RRBP In	Anite Telecoms	Revised
012141	The MAC Header Of PACKET DOWNLINK ACK. (Rel-		
	4)		
GP-	CR 51.010-1-435 rev 1 Clause 42.1.2.2.3 - There Is No	Anite Telecoms	Approved
012739	RRBP In The MAC Header Of PACKET DOWNLINK		
	ACK. (Rel-4)		
GP-	CR 51.010-1-436 clause 44.2.1.2.8 - Combined GPRS	Rohde & Schwarz	Approved
012178	attach / abnormal cases / attempt counter check /		
	miscellaneous reject causes (Rel 4)		
GP-	CR 51.010-1-437 clause 44.2.2.1.4 - GPRS detach /	Rohde & Schwarz	Revised
012179	abnormal cases / GMM common procedure collision (Rel		
	4)		
GP-	CR 51.010-1-437 rev 1 clause 44.2.2.1.4 - GPRS detach /	Rohde & Schwarz	Approved
012655	abnormal cases / GMM common procedure collision (Rel		
	4)		
GP-	CR 51.010-1-438 clause 44.2.3.1.4 - Routing area updating	Rohde & Schwarz	Approved
012180	/ rejected / location area not allowed (Rel 4)		
GP-	CR 51.010-1-439 clause 44.2.3.1.6 - Routing area updating	Rohde & Schwarz	Approved
012181	/ abnormal cases / change of cell into new routing area		
	(Rel 4)		
GP-	CR 51.010-1-440 clause 44.2.3.2.5 - Combined routing	Rohde & Schwarz	Approved
012182	area updating / rejected / roaming not allowed in this		
	location area (Rel 4)		
GP-	CR 51.010-1-441 clause 44.2.3.2.7 - Combined routing	Rohde & Schwarz	Withdrawn
012183	area updating / abnormal cases / attempt counter check /		
a b	procedure timeout (Rel 4)		
GP-	CR 51.010-1-442 clause 44.2.3.3.3 - Periodic routing area	Rohde & Schwarz	Withdrawn
012184	updating / no cell available / network mode I (Rel 4)	D 1 1 0 0 1	
GP-	CR 51.010-1-443 clause 46.1.2.2.2.4 - SACK frame (Rel	Rohde & Schwarz	Approved
012185		D 1 1 0 0 1	
GP-	CR 51.010-1-444 clause 46.1.2.2.3.3 - SACK frame (Rel	Rohde & Schwarz	Approved
012186	4)		
GP-	CR 51.010-1-445 clause $46.1.2.7.8$ - XID Response with	Rohde & Schwarz	Approved
012187 CD	out of range values (Rel 4)		р ¹ 1
GP-	UK 51.010-1-446 Ulause 44.2.2.2.1 - GPKS detach / re-	Matsushita	Kev1sed
U12188	attach not required / accepted (Kel 4)	M - (1 ')	A
GP- 012657	UK 51.010-1-446 rev 1 Clause 44.2.2.2.1 - GPKS detach /	Matsushita	Approved
01203/	re-attach not required / accepted (Kei 4)		

Tdoc	Title	Source	Status
GP-	CR 51.010-1-447 Clause 44.2.1.2.9 - Combined GPRS	Matsushita	Revised
012189	attach / abnormal cases / GPRS detach procedure collision		
	(Rel 4)		
GP-	CR 51.010-1-447 rev 1 Clause 44.2.1.2.9 - Combined	Matsushita	Approved
012654	GPRS attach / abnormal cases / GPRS detach procedure		
	collision (Rel 4)		
GP-	CR 51.010-1-448 Clause 45.2.1.1 - Attach initiated by	Matsushita	Approved
012190	context activation/QoS Offered by Network is the QoS		
	Requested (Rel 4)		
GP-	CR 51.010-1-449 Correction to T3192 value in section	Nokia	Approved
012192	41.1.5.x - RR / Paging / on CCCH for GPRS service (Rel		
	4)		
GP-	CR 51.010-1-450 Correction to sections 41.2.2.3 - Random	Nokia	Approved
012193	references for one phase packet access (Rel 4)		
GP-	CR 51.010-1-451 Correction to sections 41.3.1.1 - TBF	Nokia	Approved
012194	Release / Uplink / Normal / MS initiated / Acknowledged		
	mode (Rel 4)		
GP-	CR 51.010-1-452 Correction to sections 41.3.1.2 and	Nokia	Approved
012195	41.3.1.3 - TBF Release / Uplink / Normal / MS initiated		
	(Rel 4)		
GP-	CR 51.010-1-453 Correction to section 42.1.2.1.8.1.1 -	Nokia	Approved
012196	Packet Uplink Assignment / One phase access / Contention		
	resolution / Inclusion of TLLI in RLC data blocks (Rel 4)		
GP-	CR 51.010-1-454 Correction to T3192 value in section	Nokia	Approved
012197	42.x - MAC (Rel 4)		
GP-	CR 51.010-1-455 Correction to section 51.2.4.1 - Packet	Nokia	Approved
012198	immediate assignment / Single block packet access /		
	Packet Resource Request (Rel 4)		
GP-	CR 51.010-1-456 Correction to sections 51.3.1.1 and	Nokia	Approved
012199	51.3.1.2 - TBF Release / Uplink / Normal / MS initiated		
	(Rel 4)		
GP-	CR 51.010-1-457 Correction to T3192 value in section	Nokia	Approved
012200	51.x - (Rel 4)		
GP-	CR 51.010-1-458 Correction to section 52.2.4.2.2 - Macro	Nokia	Approved
012202	for uplink fixed allocation two phase access (Rel 4)		
GP-	CR 51.010-1-459 On clauses 52.2.1.12 to 52.2.1.28 - Fixed	Nokia	Approved
012203	Allocation / Uplink Transfer (Rel 4)		
GP-	CR 51.010-1-460 Correction to T3192 value in section	Nokia	Approved
012204	52.x (Rel 4)		
GP-	CR 51.010-1-461 Correction to section 44.2.1.2.7 -	Nokia	Revised
012205	Combined GPRS attach / rejected / location area not		
	allowed (Rel 4)		
GP-	CR 51.010-1-461 rev 1 Correction to section 44.2.1.2.7 -	Nokia	Approved
012653	Combined GPRS attach / rejected / location area not		
	allowed (Rel 4)		
GP-	CR 51.010-1-462 Correction to section 44.2.2.1.6;	Nokia	Revised
012206	44.2.2.1.7; 44.2.2.1.8 and 44.2.2.1.9 - MS initiated GPRS		
	detach procedure (Rel 4)		

Tdoc	Title	Source	Status
GP-	CR 51.010-1-462 rev 1 Correction to section 44.2.2.1.6;	Nokia	Approved
012656	44.2.2.1.7; 44.2.2.1.8 and 44.2.2.1.9 - MS initiated GPRS		
	detach procedure (Rel 4)		
GP-	CR 51.010-1-463 Correction to section 44.2.5.2.1 -	Nokia	Approved
012207	Ciphering mode / start ciphering (Rel 4)		11
GP-	CR 51.010-1-464 Clauses 42.5.5.1, 42.5.5.2 and 42.5.5.3 -	Alcatel	Revised
012208	Downlink Transfer / Reestablishment (Rel 4)		
GP-	CR 51.010-1-464 rev 1 Clauses 42.5.5.1. 42.5.5.2 and	Alcatel	Approved
012786	42.5.5.3 - Downlink Transfer / Reestablishment (Rel 4)		
GP-	CR 51.010-1-465 Correction of Section 52.3 Testcases for	Siemens	Approved
012279	Dynamic Allocation in Packet Transfer Mode (Rel 4)		
GP-	CR 51 010-1-466 Introduction of AMR layer 1 tests	Motorola	Postponed
012288	reference sensitivity 51 010-1 (Rel 4)	110001010	rostponeu
GP-	CR 51 010-1-467 Introduction of AMR layer 1 tests Co-	Motorola	Postponed
012290	channel rejection 51 010-1 (Rel 4)	Withfordia	rostponed
GP-	CR 51 010-1-468 Introduction of AMR layer 1 tests	Motorola	Postnoned
012292	51,010,1 section 1/4 general part (Rel 4)	Wotorola	rostponed
GP-	CR 51 010-1-469 Bad frame indication - TCH/AFS -	Motorola	Revised
012203	Pandom PE input 51 010 1 (Pal 4)	Witterora	Keviseu
012293 CP	CP 51 010 1 460 row 1 Pad from indication TCH/AES	Motorolo	Approved
012721	Dandom DE input 51 010 1 (Dal 4)	Motorora	Appioved
012721 CP	CD 51 010 1 470 Pad frame indication TCH/AUS	Motorolo	Davised
GP- 012205	Dendem DE input 51 010 1 (Del 4)	Motorola	Revised
012295 CD	CD 51 010 1 470 may 1 Dad from a indication TCU/AUS	Matarala	Ammanad
GP-	CK 51.010-1-4/0 rev 1 Bad frame indication - 1CH/AHS -	Motorola	Approved
012723 CD	CD 51 010 1 471 Comparison to position 41 1 (DD /	NT - 1-1 -	A
GP-	CK 51.010-1-4/1 Correction to section 41.1.6 - KK / $D_{\rm c}$ (D f = T2172 - (D f 4)	INOK1a	Approved
012297 CD	Paging / Before 131/2 expiry (Ref-4)	NT 1'	A 1
GP-	CR 51.010-1-4/2 Correction to section 51.1.6 - KR / $D_{\rm c}$ is (D f = 1.4)	NOK1a	Approved
012298	Paging / Before T31/2 expiry (Rel-4)		****
GP-	CR 51.010-1-473 clause 44.2.5.1.2 Authentication rejected	Rohde & Schwarz	Withdrawn
012322			D 1 1
GP-	CR 51.010-1-474 Fixed Allocation / Uplink Transfer /	Ericsson	Revised
012323	T3184 Expiry		
GP-	CR 51.010-1-474 rev 1 Fixed Allocation / Uplink Transfer	Ericsson	Withdrawn
012782	/ T3184 Expiry		
GP-	CR 51.010-1-475 Multislot class in section 41.3.1.2	Ericsson	Approved
012324			
GP-	CR 51.010-1-476 testcase 41.2.3.10 Access burst content	Setcom	Approved
012325	is not correct		
GP-	CR 51.010-1-477 RLC_OCTET_COUNT could be 0 in	Setcom	Revised
012326	test case 42.1.2.1.9		
GP-	CR 51.010-1-477 rev 1 RLC_OCTET_COUNT could be	Setcom	Approved
012734	0 in test case 42.1.2.1.9		
GP-	CR 51.010-1-478 Test case 41.1.6 wrong establishment	Setcom	Withdrawn
012327	cause after paging		
GP-	CR 51.010-1-479 BSN=31 is not always received in step	Setcom	Approved
012328	15 of test case 43.1.1.3		
GP-	CR 51.010-1-480 Allocation BITMAP is not sufficient in	Setcom	Approved
012329	test case 42.2.2.1		

Tdoc	Title	Source	Status
GP-	CR 51.010-1-481 Test cases 41.2.3.4, 41.2.3.5, 41.2.3.6,	Alcatel	Revised
012330	41.2.3.7, 41.2.3.8, 41.2.3.9, 41.2.3.10, 41.2.3.11 - One		
	phase packet access		
GP-	CR 51.010-1-481 rev 1 Test cases 41.2.3.4, 41.2.3.5,	Alcatel	Revised
012735	41.2.3.6, 41.2.3.7, 41.2.3.8, 41.2.3.9, 41.2.3.10, 41.2.3.11 -		
	One phase packet access		
GP-	CR 51.010-1-481 rev 2 Test cases 41.2.3.4, 41.2.3.5,	Alcatel	Approved
012785	41.2.3.6, 41.2.3.7, 41.2.3.8, 41.2.3.9, 41.2.3.10, 41.2.3.11 -		
	One phase packet access		
GP-	CR 51.010-1-482 Clause 60 - GERAN to UTRAN	Motorola	Approved
012337	Handover (Rel-4)		
GP-	CR 51.010-1-483 Clause 20.22 - GPRS Cell	Motorola	Revised
012339	Selection/Reselection (Rel-4)		
GP-	CR 51.010-1-483 rev 1 Clause 20.22 - GPRS Cell	Motorola	Approved
012730	Selection/Reselection (Rel-4)		
GP-	CR 51.010-1-484 Clause 20.22.2 - Cell reselection in	Motorola	Withdrawn
012340	Packet Idle Mode (Rel-4)		
GP-	CR 51.010-1-485 Clause 20.22.3 - Priority of Cells (Rel-4)	Motorola	Withdrawn
012341			
GP-	CR 51.010-1-486 Clause 20.22.5 - Network Controlled	Motorola	Approved
012342	Cell re-selection in Transfer Mode (Rel-4)		
GP-	CR 51.010-1-487 Clause 20.22.11 - Cell Selection/No	Motorola	Revised
012343	normal priority cell (Rel-4) CR 51.010-1 Clause 20.22.13 -		
	Cell Reselection based on C32 quality (Rel-4)		
GP-	CR 51.010-1-487 rev 1 Clause 20.22.11 - Cell	Motorola	Approved
012731	Selection/No normal priority cell (Rel-4) CR 51.010-1		
	Clause 20.22.13 - Cell Reselection based on C32 quality		
~-	(Rel-4)		
GP-	CR 51.010-1-488 Clause 41.2.3.8 - One phase packet	Motorola	Approved
012344	access / Contention resolution / 4 access repetition		
CD	attempts (Rel-4)		*****
GP-	CR 51.010-1-489 Clause 42.1.2.1.8.1 Packet Uplink	Motorola	Withdrawn
012345	Assignment / One phase access / Contention Resolution		
CD	(Kel-4)	N (1 .	Desident
GP-	CR 51.010-1-490 Clause 42.1 - Packet Access Repeat	Motorola	Revised
012340 CD	CD 51 010 1 400 row 1 Clouce 42 1 Desket Assess	Matanala	Annound
0r- 012740	CK 51.010-1-490 IEV 1 Clause 42.1 - Facket Access Peneet Attempts (Pol 4)	WIOIOIOIA	Appioved
012/40 CD	CP 51 010 1 401 Correction to contion $44.2.2.2.5$	Malria	Davised
012200	Combined routing area undating / rejected / reaming not	INOKIA	Keviseu
012399	combined routing area updating / rejected / roanning not		
CD	CP 51,010,1,401 roy 1 Correction to section 44.2.3.2.5	Nolzia	Approved
0r- 012660	Combined routing area undating / rejected / reaming not	INOKIA	Appioved
012000	combined routing area updating / rejected / roanning not		
GP.	CR 51 010-1-402 13 17 1 to 4 Clarification of	Nokia	Revised
012/00	applicability and test requirements	INUMIA	NC V 15CU
GP-	CR 51.010-1.492 rev 1.13.17.1 to A. Clarification of	Nokia	Annroved
012726	applicability and test requirements	ιτοκια	Appioved
012720	approaching and use requirements		

Tdoc	Title	Source	Status
GP-	CR 51.010-1-493 14.18.7 Incremental Redundancy	Nokia	Revised
012401	Performance, (addition of a new test)		
GP-	CR 51.010-1-493 rev 1 14.18.7 Incremental Redundancy	Nokia	Approved
012727	Performance, (addition of a new test)		
GP-	CR 51.010-1-494 21.8 EGPRS Signal Quality, (addition of	Nokia	Withdrawn
012402	a new test)		
GP-	CR 51.010-1-495 Sec 45.2.4.2: Collision of MS initiated	Siemens	Revised
012434	and network requested PDP context activation (case 1)		
GP-	CR 51.010-1-495 rev 1 Sec 45.2.4.2: Collision of MS	Siemens	Approved
012664	initiated and network requested PDP context activation		
	(case 1)		
GP-	CR 51.010-1-496 Sec 42.1.1.4.3: Packet channel request /	Siemens	Withdrawn
012435	access persistence control on PRACH / successive		
	attempts		
GP-	CR 51.010-1-497 Sec 44.2.2.1.7: GPRS detach / accepted	Siemens	Approved
012436	/ IMSI detach		
GP-	CR 51.010-1-498 Sec 41.1.6: RR / Paging / Before T3172	Siemens	Withdrawn
012437	expiry		
GP-	CR 51.010-1-499 Sec 41.1.2.1.1.1: Packet Uplink	Siemens	Revised
012438	Assignment / Packet queuing notification / Stop sending		
	Packet Channel Requests		
GP-	CR 51.010-1-499 rev 1 Sec 41.1.2.1.1.1: Packet Uplink	Siemens	Approved
012736	Assignment / Packet queuing notification / Stop sending		
	Packet Channel Requests		
GP-	CR 51.010-1-500 Sec 42 - CR404 erroneously Deleted	Anite Telecom	Revised
012470	Steps In 42.3.1.1.4		
GP-	CR 51.010-1-500 rev 1 Sec 42 - CR404 erroneously	Anite Telecom	Approved
012780	Deleted Steps In 42.3.1.1.4		
GP-	CR 51.010-1-501 Clause 42.4.1.3 - Correction To	Anite Telecom	Approved
012471 CD	Expected Sequence	A	A
GP- 012472	CK 51.010-1-502 Clause 44.2.5.2.5.5.2 - Correction of Datach Turna	Ante Telecom	Approved
012472 CP	CP 51 010 1 502 Clause 44 2 2 2 7 Insertion of a	Anita Talacom	Davisad
GP- 012472	L costion Undete magre	Anne Telecom	Revised
012475 CP	$CP_{51,010,1,502}$ row 1 Clause 44.2.3.2.7 Insertion of a	Anita Talacom	Approved
012658	Location Undate macro	Anne Telecom	Appioved
GP-	CR 51 010-1-504 Clause 44.2.3.3. Various corrections	Anite Telecom	Approved
012474	CR 51.010-1-50+ Clause ++.2.5.5.5 - Various corrections	And relecon	Appioved
GP-	CR 51 010-1-505 Clause 44 2 5 1 2 - Various corrections	Anite Telecom	Revised
012475	erestions i sos chube inizistinz - vultur concentions		itevised
GP-	CR 51.010-1-505 rev 1 Clause 44.2.5.1.2 - Various	Anite Telecom	Approved
012659	corrections		
GP-	CR 51.010-1-506 Clause 44.2.5.2.2 - Various corrections	Anite Telecom	Revised
012476			
GP-	CR 51.010-1-506 rev 1 Clause 44.2.5.2.2 - Various	Anite Telecom	Approved
012662	corrections		II .
GP-	CR 51.010-1-507 Clause 44.2.5.2.3 - Various corrections	Anite Telecom	Revised
012477			

Tdoc	Title	Source	Status
GP-	CR 51.010-1-507 rev 1 Clause 44.2.5.2.3 - Various	Anite Telecom	Approved
012663	corrections		
GP-	CR 51.010-1-508 Sec TC 41.2.4.2: Single block packet	Siemens	Withdrawn
012480	access / Packet Measurement Report		
GP-	CR 51.010-1-509 Sec. TC 20.22.2: Cell reselection in	Siemens	Revised
012481	Packet Idle mode		
GP-	CR 51.010-1-509 rev 1 Sec. TC 20.22.2: Cell reselection	Siemens	Approved
012737	in Packet Idle mode		
GP-	CR 51.010-1-510 clause 31.9.1.2 - Correction of step	Anite Telecom	Approved
012483	references in Expected Message Sequence and Specific		
	Message Contents		
GP-	CR 51.010-1-511 Sec. TC 14.16.2.1: Co-channel rejection	Siemens	Approved
012545	for packet channels		
GP-	CR 51.010-1-512 Sec. TC 14.16.2.1: Co-channel rejection	Siemens	Revised
012546	for packet channels	a.	
GP-	CR 51.010-1-512 rev 1 Sec. TC 14.16.2.1: Co-channel	Siemens	Approved
012725	rejection for packet channels		A 1
GP-	CR 51.010-1-513 clause 44.2.1.2.6 Combined GPRS	Rohde & Schwarz	Approved
012562	attach / rejected / GPRS services not allowed	г.	A 1
GP-	CR 51.010-1-514 Expected sequence in section 41.2.3.6	Ericsson	Approved
012385 CD	CD 51 010 1 515 Test assa 41 2 2 6 One phase peaket	Alastal	Withdrown
012580	CK 51.010-1-515 Test case 41.2.5.0 - One phase packet	Alcalei	williawii
012309 CD	CP 51 010 1 516 Test case 45 3 1 DDP context	Alcotal	Approved
012500	modification	Alcalei	Appioved
GP-	CR 51 010-1-517 Test case 20 22 11 - Cell Selection / No	Alcatel	Withdrawn
012591	normal priority cell	Thouton	vv itildi d vv ii
GP-	CR 51.010-1-518 Test case 12.1.1 - MS allocated a	Alcatel	Revised
012592	channel		
GP-	CR 51.010-1-518 rev 1 Test case 12.1.1 - MS allocated a	Alcatel	Approved
012724	channel		II
GP-	CR 51.010-1-519 Test case 41.2.4.2 - Single block packet	Alcatel	Approved
012593	access / Packet Measurement Report Test case 41.2.7.2 -		
	Single block packet downlink assignment / MS returns to		
	packet idle mode		
GP-	CR 51.010-1-520 Test case 26.5.7.1.3 - Spare bits / RR /	Alcatel	Approved
012594	AGCH		
GP-	CR 51.010-1-521 Correction to section 51.3.5 - PDCH	Nokia	Approved
012616	Release (Rel 4)		
GP-	CR 51.010-1-522 Correction to section 20.22 GPRS Cell	Nokia	Approved
012617	Selection and Reselection (Rel 4)		
GP-	CR 51.010-1-523 Correction to section 44.2.1.2.1 -	Nokia	Withdrawn
012632	Combined GPRS attach / GPRS and non-GPRS attach		
G D	accepted (Rel 4)		
GP-	CR 51.010-1-524 Test case 42.1.2.1.5 - Packet Uplink	Alcatel	Approved
012642 CD	Assignment / One or two phase access		A
GP-	UK 51.010-1-525 Clause 40 Missing correction of binary	Konde & Schwarz	Approved
012652	value		

Tdoc	Title	Source	Status
GP-	CR 51.010-1-526 Network Induced LCS Emergency Call	Ericsson	Approved
012665	on SDCCH, Idle, no IMSI (Rel 4)		
GP-	CR 51.010-1-527 Positioning/RR/Classmark Interrogation	Ericsson	Approved
012666	(Rel 4)		
GP-	CR 51.010-1-528 Network Induced LCS Emergency Call	Ericsson	Approved
012667	on SDCCH. (Rel 4)		11
GP-	CR 51.010-2-019 Deletion of test case 27.11.2.1 (Rel-4)	GERAN WG5	Approved
012116	(G5-010043)		i ippio (ou
GP-	CR 51 010-2-020 Correction of applicability condition	GERAN WG5	Approved
012117	C_{220} in Anney B 1 (Rel-4) (G5-010027)	OLIVII (WOS	rippioved
GP-	CR 51 010-2-021 Correction of applicability condition	GERAN WG5	Approved
012118	C52 in Anney B 1 (Rel-4) (G5-010028)	OLIVII (WOJ	nppioved
GP	CP 51 010 2 022 Changes to applicability of test case	GEPAN WG5	Approved
012110	$AA \ge 1 \ge 2 (B_{a} A) (C5 \ 0.10140)$	ULIAN WUJ	Appioved
012119 CP	(0.5-0.10147)	CEDAN WC5	Approved
012120	Should Only De Applicable To Mobiles That Support	ULINAIN WUJ	Appioved
012120	Configuration of Their OoS (Dol 4) (C5 010150)		
CD	Configuration of Their QoS (Ref-4) (G 3-010139)	TOC CEDAN WCA	A mmmore d
GP-	CK 51.010-2-024 on Annex B - removal of test case $51.24.2$ (selected to C4.010504) Del 4	ISG GERAN WG4	Approved
012275 CD	51.2.4.2 (related to G4-010594) Kel-4		A
GP-	CK 51.010-2-025 on GSM 700 and GSM850 inclusion into	ISG GERAN WG4	Approved
012274	Ioreward Rel-4		A 1
GP-	CR 51.010-2-026 on New test cases for clause 42.1 Rel-4	ISG GERAN WG4	Approved
012275			
GP-	CR 51.010-2-02/ on change of test case name for clause	TSG GERAN WG4	Approved
012276	51.2.2.2. Rel-4		
GP-	CR 51.010-2-028 on Table B1 – Addition of section 52.1	TSG GERAN WG4	Approved
012277	testcases to the applicability table Rel-4		
GP-	CR 51.010-2-029 Adding LCS test cases to Applicability	Ericsson	Withdrawn
012134	Tables in 51.010-2		
GP-	CR 51.010-2-030 Correction to the Applicability of test	Nokia	Approved
012191	cases 13.17.1; 13.17.3 and 13.17.4 (Rel 4)		
GP-	CR 51.010-2-031 Annex B - renameing of test case	Nokia	Approved
012201	51.2.4.1 (Rel 4)		
GP-	CR 51.010-2-032 Introduction and Default Conditions for	Ericsson	Revised
012334	LCS Clause 70		
GP-	CR 51.010-2-032 rev 1 Introduction and Default	Ericsson	Approved
012729	Conditions for LCS Clause 70		
GP-	CR 51.010-2-033 Introduction of AMR layer 1 tests, Co-	Motorola	Postponed
012291	channel rejection 51.010-2 (Rel 4)		
GP-	CR 51.010-2-034 Bad frame indication - TCH/AFS -	Motorola	Revised
012294	Random RF input 51.010-2		
GP-	CR 51.010-2-034 rev 1 Bad frame indication - TCH/AFS -	Motorola	Approved
012722	Random RF input 51.010-2		
GP-	CR 51.010-2-035 14.18.7 Incremental Redundancy	Nokia	Approved
012732	Performance, (addition of a new test) (Rel-4)		
GP-	CR 51.010-2-036 Applicability of test 42.2.2.4; Fixed	Ericsson	Approved
012784	Allocation / Uplink Transfer / T3184 Expiry		**
GP-	CR 51.010-2-037 Bad frame indication - TCH/AHS -	Motorola	Approved
012296	Random RF input 51.010-2		11
Tdoc	Title	Source	Status
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GP-	CR 51.010-2-038 Introduction of AMR layer 1 tests,	Motorola	Postponed
012289	reference sensitivity 51.010-2 (Rel 4)		-
GP-	CR 51.010-2-039 Applicability Table for E-OTD Test	Ericsson	Approved
012609	Cases for LCS Clause 70		
GP-	CR 51.010-2-040 PICS update for GERAN to UTRAN	Motorola	Rejected
012338	Handover test cases (Rel-4)		
GP-	CR 51.010-3-006 Classmark 2 modification to support R96	GERAN WG5	Approved
012121	and later mobiles (Rel-4) (G5-010050)		
GP-	CR 51.010-3-007 Mobile originated Setup PDU additions	GERAN WG5	Approved
012122	to support R96 and later mobiles (Rel-4) (G5-010051)		
GP-	CR 51.010-3-008 Classmark 2 modification (Rel-4) (G5-	GERAN WG5	Approved
012123	010119)		
GP-	CR 51.010-3-010 on Corrections to BA-IND values Rel-4	TSG GERAN WG4	Approved
012278			
GP-	CR 51.010-3-011 rev 1 Updating EFR to accept Version 3	Anite Telecoms	Approved
012651	Speech (Rel 4)		
GP-	CR 51.010-3-011 Updating EFR to accept Version 3	Anite Telecoms	Revised
012161	Speech (Rel 4)		
GP-	CR 51.010-3-012 Bearer Capability additions (Rel 4)	Anite Telecoms	Approved
012162			