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Technical Specification

Digital cellular telecommunications system (Phase 2+); Technical Specifications and Technical Reports for a GERAN-based 3GPP system (3GPP TS 41.101 version 5.13.0 Release 5)



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Foreword

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The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under http://webapp.etsi.org/key/queryform.asp.

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Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

1 Scope

The present document identifies the 3GPP system specifications for Release 5. The specifications and reports of 3GPP Release 5 have a major version number 5 (i.e. 5.x.y). The listed Specifications are required to build a system based on GERAN radio technology.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document.*
- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TR 21.900: "Technical Specification Group working methods".

3 Abbreviations

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 apply.

4 General

The numbering scheme for specifications is described in 3GPP TR 21.900.

5 Specifications and Reports

NOTE 1: The "for publication?" column of the table below indicates whether or not the documents are intended for adoption by the partner Standards Development Organizations as their own publications. Those marked "no" are internal working documents of the 3GPP TSGs.

NOTE 2: For definition of "freezing" of specifications (last two columns), see 3GPP TS 21.900 [2].

Number	Title	WG prime	For publication?	freeze date	frozen
21.801	Specification drafting rules	SP	No	2002- 03-14	1' 1
21.900	Technical Specification Group working methods	SP	Yes	2002- 03-14	1'
21.905	Vocabulary for 3GPP Specifications	S1	Yes	2002- 03-14	1'
22.001	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)	S1	Yes	2002- 06-13	1'
22.002	Circuit Bearer Services (BS) supported by a Public Land Mobile	S1	Yes	2002-	yes

Number	Title	WG prime	For publication?	freeze date	frozen
	Network (PLMN)			06-13	
22.003	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	S1	Yes	2002- 03-14	
22.004	General on supplementary services	S1	Yes	2002- 06-13	
22.011	Service accessibility	S1	Yes	2002- 06-13	
22.016	International Mobile Equipment Identities (IMEI)	S1	Yes	2002- 06-13	
22.022	Personalisation of Mobile Equipment (ME); Mobile functionality specification	S3	Yes	2002- 09-12	
22.024	Description of Charge Advice Information (CAI)	S1	Yes	2002- 06-13	
22.030	Man-Machine Interface (MMI) of the User Equipment (UE)	S1	Yes	2002- 06-13	
22.031	Fraud Information Gathering System (FIGS); Service description; Stage 1	S3	Yes	2002- 12-12	
22.032	Immediate Service Termination (IST); Service description; Stage 1	S3	Yes	2002- 06-13	
22.034	High Speed Circuit Switched Data (HSCSD); Stage 1	S1	Yes	2002- 06-13	
22.038	USIM Application Toolkit (USAT/SAT); Service description; Stage 1	S1	Yes	2002- 03-14	
22.041	Operator Determined Call Barring	S1	Yes	2002- 06-13	
22.042	Network Identity and Time Zone (NITZ) service description; Stage 1	S1	Yes	2002- 06-13	
22.048	Security mechanisms for the (U)SIM application toolkit; Stage 1	C6	Yes	2003- 06-06	
22.053	Tandem Free Operation (TFO); Service description; Stage 1	S4	Yes	2002- 06-13	
22.057	Mobile Execution Environment (MExE) service description; Stage 1	S1	Yes	2002- 03-14	
22.060	General Packet Radio Service (GPRS); Service description; Stage 1	S1	Yes	2002- 03-14	
22.066	Support of Mobile Number Portability (MNP); Stage 1	S1	Yes	2002- 06-13	
22.067	enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 1	S1	Yes	2002- 06-13	
22.071	Location Services (LCS); Service description; Stage 1	S1	Yes	2002- 03-14	
22.072	Call Deflection (CD); Stage 1	S1	Yes	2002- 06-13	
22.076	Noise suppression for the AMR codec; Service description; Stage 1	S4	Yes	2002- 06-13	
22.078	Customized Applications for Mobile network Enhanced Logic (CAMEL); Service description; Stage 1	S1	Yes	2002- 03-14	
22.079	Support of optimal routeing; Stage 1	S1	Yes	2002- 06-13	
22.081	Line Identification supplementary services; Stage 1	S1	Yes	2002- 06-13	
22.082	Call Forwarding (CF) Supplementary Services; Stage 1	S1	Yes	2002- 06-13	
22.083	Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 1	S1	Yes	2002- 06-13	yes
22.084	MultiParty (MPTY) supplementary service; Stage 1	S1	Yes	2002- 06-13	

Number	Title	WG prime	For publication?	freeze date	frozen
22.085	Closed User Group (CUG) supplementary services; Stage 1	S1	Yes	2002- 06-13	
22.086	Advice of Charge (AoC) supplementary services; Stage 1	S1	Yes	2002- 06-13	yes
22.087	User-to-user signalling (UUS); Stage 1	S1	Yes	2002- 06-13	
22.088	Call Barring (CB) supplementary services; Stage 1	S1	Yes	2002- 06-13	
22.090	Unstructured Supplementary Service Data (USSD); Stage 1	S1	Yes	2002- 06-13	
22.091	Explicit Call Transfer (ECT) supplementary service; Stage 1	S1	Yes	2002- 06-13	
22.093	Completion of Calls to Busy Subscriber (CCBS); Service description, Stage 1	S1	Yes	2002- 06-13	
22.094	Follow Me service description - Stage 1	S1	Yes	2002- 06-13	
22.096	Name identification supplementary services; Stage 1	S1	Yes	2002- 06-13	
22.097	Multiple Subscriber Profile (MSP) Phase 2; Service description; Stage 1	S1	Yes	2002- 06-13	yes
22.115	Service aspects; Charging and billing	S1	Yes	2002- 03-14	yes
22.121	Service aspects; The Virtual Home Environment (VHE); Stage 1	S1	Yes	2002- 03-14	yes
22.129	Handover requirements between UTRAN and GERAN or other radio systems	S1	Yes	2002- 03-14	yes
22.140	Multimedia Messaging Service (MMS); Stage 1	S1	Yes	2002- 03-14	
22.226	Global text telephony (GTT); Stage 1: Service description	S1	Yes	2002- 03-14	yes
22.228	Service requirements for the Internet Protocol (IP) multimedia core network subsystem (IMS); Stage 1	S1	Yes	2002- 03-14	
22.233	Transparent end-to-end packet-switched streaming service; Stage 1	S1	Yes	2002- 06-13	yes
22.944	Report on service requirements for UE functionality split	S1	Yes	2002- 03-14	yes
23.002	Network architecture	S2	Yes	2002- 03-14	
23.003	Numbering, addressing and identification	C4	Yes	2002- 03-08	
23.007	Restoration procedures	C4	Yes	2002- 03-08	yes
23.008	Organization of subscriber data	C4	Yes	2002- 03-08	yes
23.009	Handover procedures	C1	Yes	2002- 03-08	yes
23.011	Technical realization of Supplementary Services	C4	Yes	2002- 03-08	yes
23.012	Location management procedures	C4	Yes	2002- 03-08	yes
23.014	Support of Dual Tone Multi Frequency (DTMF) signalling	C1	Yes	2002- 03-08	yes
23.015	Technical realization of Operator Determined Barring (ODB)	C4	Yes	2002- 03-08	yes
23.016	Subscriber data management; Stage 2	C4	Yes	2002- 03-08	yes
23.018	Basic Call Handling; Technical realization	C4	Yes	2002- 03-08	yes

Number	Title	WG prime	For publication?	freeze date	frozen
23.031	Fraud Information Gathering System (FIGS); Service description; Stage 2	S3	Yes	2002- 12-12	
23.032	Universal Geographical Area Description (GAD)	S2	Yes	2003- 03-20	
23.034	High Speed Circuit Switched Data (HSCSD); Stage 2	C1	Yes	2002- 03-08	
23.035	Immediate Service Termination (IST); Stage 2	S3	Yes	2002- 06-13	
23.038	Alphabets and language-specific information	C1	Yes	2002- 03-08	
23.039	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	C1	Yes	2002- 03-08	
23.040	Technical realization of Short Message Service (SMS)	C1	Yes	2002- 03-08	
23.041	Technical realization of Cell Broadcast Service (CBS)	C1	Yes	2002- 06-07	yes
23.042	Compression algorithm for SMS	C1	Yes	2002- 03-08	
23.048	Security mechanisms for the (U)SIM application toolkit; Stage 2	C6	Yes	2002- 03-08	
23.053	Tandem Free Operation (TFO); Service description; Stage 2	S4	Yes	2002- 06-13	
23.057	Mobile Execution Environment (MExE); Functional description; Stage 2	S2	Yes	2002- 03-08	yes
23.060	General Packet Radio Service (GPRS); Service description; Stage 2	S2	Yes	2002- 03-14	yes
23.066	Support of GSM Mobile Number Portability (MNP) stage 2	C4	Yes	2002- 03-08	yes
23.067	Enhanced Multi-Level Precedence and Pre-emption Service (eMLPP); Stage 2	C4	Yes	2002- 03-08	yes
23.072	Call Deflection Supplementary Service; Stage 2	C4	Yes	2002- 03-08	1-
23.078	Customized Applications for Mobile network Enhanced Logic (CAMEL) Phase X; Stage 2	C4	Yes	2002- 06-07	yes
23.079	Support of Optimal Routeing (SOR); Technical realization	C4	Yes	2002- 03-08	l*
23.081	Line Identification supplementary services; Stage 2	C4	Yes	2002- 03-08	
23.082	Call Forwarding (CF) Supplementary Services; Stage 2	C4	Yes	2002- 03-08	
23.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 2	C4	Yes	2002- 03-08	yes
23.084	MultiParty (MPTY) Supplementary Service; Stage 2	C4	Yes	2002- 03-08	
23.085	Closed User Group (CUG) Supplementary Service; Stage 2	C4	Yes	2002- 03-08	
23.086	Advice of Charge (AoC) Supplementary Service; Stage 2	C4	Yes	2002- 03-08	yes
23.087	User-to-User Signalling (UUS) supplementary service; Stage 2	C4	Yes	2002- 03-08	yes
23.088	Call Barring (CB) Supplementary Service; Stage 2	C4	Yes	2002- 03-08	yes
23.090	Unstructured Supplementary Service Data (USSD); Stage 2	C4	Yes	2002- 03-08	yes
23.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 2	C4	Yes	2002- 03-08	yes
23.093	Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2	C4	Yes	2002- 03-08	yes

Number	Title	WG prime	For publication?	freeze date	frozen
23.094	Follow Me Stage 2	C4	Yes	2002- 03-08	
23.096	Name Identification Supplementary Service; Stage 2	C4	Yes	2002- 03-08	
23.097	Multiple Subscriber Profile (MSP) Phase 1; Stage 2	C4	Yes	2002- 03-08	
23.107	Quality of Service (QoS) concept and architecture	S2	Yes	2002- 03-14	
23.108	Mobile radio interface layer 3 specification core network protocols; Stage 2 (structured procedures)	C1	Yes	2002- 06-07	
23.110	UMTS Access Stratum Services and Functions	S2	Yes	2003- 12-18	
23.116	Super-Charger technical realization; Stage 2	C4	Yes	2002- 03-08	
23.119	Gateway Location Register (GLR); Stage2	C4	Yes	2002- 03-08	
23.122	Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode	C1	Yes	2002- 03-08	
23.140	Multimedia Messaging Service (MMS); Functional description; Stage 2	СР	Yes	2002- 03-08	
23.195	Provision of User Equipment Specific Behaviour Information (UESBI) to network entities	S2	Yes	2003- 06-12	
23.207	End-to-end Quality of Service (QoS) concept and architecture	S2	Yes	2002- 03-14	
23.218	IP Multimedia (IM) session handling; IM call model; Stage 2	C1	Yes	2002- 03-08	
23.221	Architectural requirements	S2	Yes	2002- 03-14	yes
23.226	Global text telephony (GTT); Stage 2: Architecture	S2	Yes	2002- 03-08	
23.228	IP Multimedia Subsystem (IMS); Stage 2	S2	Yes	2002- 03-14	
23.236	Intra-domain connection of Radio Access Network (RAN) nodes to multiple Core Network (CN) nodes	S2	Yes	2002- 03-14	
23.271	Functional stage 2 description of Location Services (LCS)	S2	Yes	2002- 03-14	1.
23.278	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 4; Stage 2; IM CN Interworking	C4	Yes	2002- 12-06	
23.815	Charging implications of IMS architecture	S2	No	2002- 03-14	
24.002	GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration	C1	Yes	2002- 03-08	
24.007	Mobile radio interface signalling layer 3; General Aspects	C1	Yes	2002- 03-08	
24.008	Mobile radio interface Layer 3 specification; Core network protocols; Stage 3	C1	Yes	2002- 03-08	yes
24.010	Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects	C4	Yes	2002- 03-08	yes
24.011	Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface	C1	Yes	2002- 03-08	yes
24.022	Radio Link Protocol (RLP) for circuit switched bearer and teleservices	C3	Yes	2002- 03-08	yes
24.030	Location Services (LCS); Supplementary service operations; Stage 3	C4	Yes	2002- 03-08	yes
24.067	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3	C4	Yes	2002- 03-08	yes
24.072	Call Deflection Supplementary Service; Stage 3	C4	Yes	2002- 03-08	yes

Number	Title	WG prime	For publication?	freeze date	frozen
24.080	Mobile radio Layer 3 supplementary service specification; Formats and coding	C4	Yes	2002- 03-08	
24.081	Line Identification Supplementary Service; Stage 3	C4	Yes	2002- 03-08	
24.082	Call Forwarding supplementary service; Stage 3	C4	Yes	2002- 03-08	
24.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3	C4	Yes	2002- 03-08	
24.084	MultiParty (MPTY) Supplementary Service; Stage 3	C4	Yes	2002- 03-08	
24.085	Closed User Group (CUG) Supplementary Service; Stage 3	C4	Yes	2002- 03-08	
24.086	Advice of Charge (AoC) Supplementary Service; Stage 3	C4	Yes	2002- 03-08	
24.087	User-to-User Signalling (UUS); Stage 3	C4	Yes	2002- 03-08	
24.088	Call Barring (CB) Supplementary Service; Stage 3	C4	Yes	2002- 03-08	
24.090	Unstructured Supplementary Service Data (USSD); Stage 3	C4	Yes	2002- 03-08	
24.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 3	C4	Yes	2002- 03-08	
24.093	Call Completion to Busy Subscriber (CCBS); Stage 3	C4	Yes	2002- 03-08	yes
24.096	Name Identification Supplementary Service; Stage 3	C4	Yes	2002- 03-08	
24.228	Signalling flows for the IP multimedia call control based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3	C1	Yes	2002- 06-07	
24.229	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3	C1	Yes	2002- 06-07	yes
26.071	AMR speech Codec; General description	S4	Yes	2002- 06-13	1-
26.073	AMR speech Codec; C-source code	S4	Yes	2002- 06-13	
26.074	AMR speech Codec; Test sequences	S4	Yes	2002- 06-13	yes
26.077	Minimum performance requirements for noise suppresser application to the Adaptive Multi-Rate (AMR) speech encoder	S4	Yes	2002- 06-13	yes
26.090	AMR speech Codec; Transcoding Functions	S4	Yes	2002- 06-13	yes
26.091	AMR speech Codec; Error concealment of lost frames	S4	Yes	2002- 06-13	yes
26.092	AMR speech Codec; comfort noise for AMR Speech Traffic Channels	S4	Yes	2002- 06-13	
26.093	Mandatory speech codec speech processing functions Adaptive Multi- Rate (AMR) speech codec; Source controlled rate operation	S4	Yes	2002- 06-13	yes
26.094	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Voice Activity Detector (VAD)	S4	Yes	2002- 06-13	yes
26.101	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec frame structure	S4	Yes	2002- 06-13	yes
26.102	Mandatory speech codec; Adaptive Multi-Rate (AMR) speech codec; Interface to Iu, Uu and Nb	S4	Yes	2002- 06-13	yes
26.103	Speech codec list for GSM and UMTS	S4	Yes	2002- 03-14	yes
26.104	ANSI-C code for the floating-point Adaptive Multi-Rate (AMR) speech codec	S4	Yes	2002- 06-13	yes

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Number	Title	WG prime	For publication?	freeze date	frozen
26.110	Codec for circuit switched multimedia telephony service; General description	S4	Yes	2002- 06-13	1-
26.111	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	S4	Yes	2002- 06-13	1-
26.140	Multimedia Messaging Service (MMS); Media formats and codes	S4	Yes	2002- 03-14	12
26.171	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; General description	S4	Yes	2002- 03-14	17
26.173	ANSI-C code for the Adaptive Multi-Rate - Wideband (AMR-WB) speech codec	S4	Yes	2002- 03-14	yes
26.174	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec test sequences	S4	Yes	2002- 03-14	yes
26.190	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Transcoding functions	S4	Yes	2002- 03-14	1-
26.191	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Error concealment of erroneous or lost frames	S4	Yes	2002- 03-14	
26.192	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Comfort noise aspects	S4	Yes	2002- 03-14	1-
26.193	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Source controlled rate operation	S4	Yes	2002- 03-14	12
26.194	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Voice Activity Detector (VAD)	S4	Yes	2002- 03-14	1-
26.201	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Frame structure	S4	Yes	2002- 03-14	yes
26.202	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Interface to Iu, Uu and Nb	S4	Yes	2002- 03-14	
26.204	Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; ANSI-C code	S4	Yes	2002- 03-14	1.
26.226	Cellular text telephone modem; General description	S4	Yes	2002- 03-14	
26.230	Cellular text telephone modem; Transmitter bit exact C-code	S4	Yes	2002- 03-14	
26.231	Cellular text telephone modem; Minimum performance requirements	S4	Yes	2002- 03-14	
26.235	Packet switched conversational multimedia applications; Default codecs	S4	Yes	2002- 03-14	
26.911	Codec for Circuit switched Multimedia Telephony Service;Terminal Implementor"s Guide	S4	Yes	2002- 06-13	1-
26.975	Performance characterization of the Adaptive Multi-Rate (AMR) speech codec	S4	Yes	2002- 06-13	
26.976	Performance characterization of the Adaptive Multi-Rate Wideband (AMR-WB) speech codec	S4	Yes	2002- 06-07	yes
27.001	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	C3	Yes	2002- 03-08	
27.002	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	C3	Yes	2002- 03-08	yes
27.003	Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities	C3	Yes	2002- 03-08	yes
27.005	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE-DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	C1	Yes	2002- 03-08	yes
27.007	AT command set for User Equipment (UE)	C1	Yes	2002- 03-08	
27.010	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	C3	Yes	2002- 03-08	yes
27.060	Packet domain; Mobile Station (MS) supporting Packet Switched services	СЗ	Yes	2002- 03-08	yes

Number	Title	WG prime	For publication?	freeze date	frozen
27.103	Wide Area Network Synchronization	C1	Yes	2002- 03-08	
28.062	Inband Tandem Free Operation (TFO) of speech codecs; Service description; Stage 3	S4	Yes	2002- 03-14	
29.002	Mobile Application Part (MAP) specification	C4	Yes	2002- 03-08	
29.007	General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)	C3	Yes	2002- 03-08	
29.010	Information element mapping between Mobile Station - Base Station System (MS - BSS) and Base Station System - Mobile-services Switching Centre (BSS - MSC); Signalling Procedures and the Mobile Application Part (MAP)	C4	Yes	2002- 03-08	1.
29.011	Signalling Interworking for Supplementary Services	C4	Yes	2002- 03-08	
29.013	Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols	C4	Yes	2002- 03-08	
29.016	Serving GPRS Support Node SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification	C1	Yes	2002- 03-08	
29.018	General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification	C1	Yes	2002- 03-08	
29.060	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface	C4	Yes	2002- 03-08	
29.061	Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)	C3	Yes	2002- 09-06	
29.078	Customized Applications for Mobile network Enhanced Logic (CAMEL) Phase X; CAMEL Application Part (CAP) specification	C4	Yes	2002- 06-07	yes
29.207	Policy control over Go interface	C3	Yes	2002- 06-07	yes
29.208	End-to-end Quality of Service (QoS) signalling flows	C3	Yes	2002- 06-07	yes
29.228	IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Signalling flows and message contents	C4	Yes	2002- 06-07	yes
29.229	Cx and Dx interfaces based on the Diameter protocol; Protocol details	C4	Yes	2002- 06-07	
29.278	customized Applications for Mobile network Enhanced Logic (CAMEL); CAMEL Application Part (CAP) specification for IP Multimedia Subsystems (IMS)	C4	Yes	2002- 12-06	
29.328	IP Multimedia Subsystem (IMS) Sh interface; Signalling flows and message contents	C4	Yes	2002- 06-07	yes
29.329	Sh interface based on the Diameter protocol; Protocol details	C4	Yes	2002- 06-07	yes
29.994	Recommended infrastructure measures to overcome specific Mobile Station (MS) and User Equipment (UE) faults	C1	Yes	2002- 03-14	
29.998- 04-1	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 1: API to CAP Mapping	C5	Yes	2002- 03-08	
29.998- 08	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 8: Data Session Control Service Mapping to CAP	C5	Yes	2002- 03-08	12
30.902	Guidelines for the modification of the Mobile Application Part (MAP) in Phase 2+	C4	No	2003- 03-14	
31.048	Security mechanisms for the (U)SIM application toolkit; Test specification	C6	Yes	2003- 09-19	
31.103	Characteristics of the IP Multimedia Services Identity Module (ISIM) application	C6	Yes	2002- 06-07	yes
31.111	Universal Subscriber Identity Module (USIM) Application Toolkit	C6	Yes	2002-	yes

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	(USAT)			03-08	
32.101	Telecommunication management; Principles and high level requirements	S5	Yes	2002- 03-14	
32.102	Telecommunication management; Architecture	S5	Yes	2002- 03-14	
32.111-1	Telecommunication management; Fault Management; Part 1: 3G fault management requirements	S5	Yes	2002- 03-14	12
32.111-2	Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point (IRP): Information Service (IS)	S5	Yes	2002- 03-14	1-
32.111-3	Telecommunication management; Fault Management; Part 3: Alarm Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2002- 03-14	
32.111-4	Telecommunication management; Fault Management; Part 4: Alarm Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2002- 03-14	
32.200	Telecommunication management; Charging management; Charging principles	S5	Yes	2002- 09-12	
32.205	Telecommunication management; Charging management; Charging data description for the Circuit Switched (CS) domain	S5	Yes	2002- 03-14	1.
32.215	Telecommunication management; Charging management; Charging data description for the Packet Switched (PS) domain	S5	Yes	2002- 03-14	
32.225	Telecommunication management; Charging management; Charging data description for the IP Multimedia Subsystem (IMS)	S5	Yes	2002- 09-12	
32.235	Telecommunication management; Charging management; Charging data description for application services	S5	Yes	2002- 09-12	17
32.300	Telecommunication management; Configuration Management (CM); Name convention for Managed Objects	S5	Yes	2002- 09-12	12
32.301	Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): Requirements	S5	Yes	2002- 03-14	1-
32.302	Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): Information Service (IS)	S5	Yes	2002- 03-14	12
32.303	Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2002- 03-14	
32.304	Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2002- 03-14	
32.311	Telecommunication management; Generic Integration Reference Point (IRP) management; Requirements	S5	Yes	2002- 03-14	1-
32.312	Telecommunication management; Generic Integration Reference Point (IRP) management; Information Service (IS)	S5	Yes	2002- 03-14	
32.321	Telecommunication management; Test management Integration Reference Point (IRP): Requirements	S5	Yes	2002- 03-14	
32.322	Telecommunication management; Test management Integration Reference Point (IRP): Information Service (IS)	S5	Yes	2002- 09-12	
32.323	Telecommunication management; Test management Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2002- 09-12	
32.324	Telecommunication management; Test management Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2002- 09-12	
32.401	Telecommunication management; Performance Management (PM); Concept and requirements	S5	Yes	2002- 03-14	
32.403	Telecommunication management; Performance Management (PM); Performance measurements - UMTS and combined UMTS/GSM	S5	Yes	2002- 03-14	
32.600	Telecommunication management; Configuration Management (CM); Concept and high-level requirements	S5	Yes	2002- 09-12	
32.601	Telecommunication management; Configuration Management (CM);	S5	Yes	2002-	yes

Number	Title	WG prime	For publication?	freeze date	frozen
	Basic CM Integration Reference Point (IRP); Requirements			09-12	
32.602	Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP): Information Service (IS)	S5	Yes	2002- 09-12	
32.603	Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2002- 09-12	
32.604	Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP) Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2002- 09-12	yes
32.611	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Requirements	S5	Yes	2002- 06-13	1-
32.612	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Information Service (IS)	S5	Yes	2002- 09-12	
32.613	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2002- 09-12	1-
32.614	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2002- 09-12	
32.615	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): eXtensible Markup Language (XML) file format definition	S5	Yes	2002- 06-13	
32.621	Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP); Requirements	S5	Yes	2002- 09-12	
32.622	Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): Network Resource Model (NRM)	S5	Yes	2002- 09-12	
32.623	Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2002- 09-12	
32.624	Telecommunication management; Configuration Management (CM); Generic network resources: Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2002- 09-12	
32.625	Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): Bulk CM eXtensible Markup Language (XML) file format definition	S5	Yes	2002- 03-14	
32.631	Telecommunication management; Configuration Management (CM); Core network resources Integration Reference Point (IRP): Requirements	S5	Yes	2002- 06-13	
32.632	Telecommunication management; Configuration Management (CM); Core Network Resources Integration Reference Point (IRP): Network Resource Model (NRM)	S5	Yes	2002- 09-12	
32.633	Telecommunication management; Configuration Management (CM); Core network resources Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2002- 09-12	
32.634	Telecommunication management; Configuration Management (CM); Core network resources Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2002- 09-12	
32.635	Telecommunication management; Configuration Management (CM); Core network resources Integration Reference Point (IRP): Bulk CM eXtensible Markup Language (XML) file format definition	S5	Yes	2002- 06-13	1-
32.651	Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP): Requirements	S5	Yes	2002- 09-12	1-
32.652	Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP): Network Resource Model (NRM)	S5	Yes	2002- 09-12	
32.653	Telecommunication management; Configuration Management (CM);	S5	Yes	2002-	yes

Number	Title	WG prime	For publication?	freeze date	frozen
	GERAN network resources Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)			09-12	
32.654	Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2002- 09-12	
32.655	Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP): Bulk CM eXtensible Markup Language (XML) file format definition	S5	Yes	2002- 06-13	-
32.661	Telecommunication management; Configuration Management (CM); Kernel CM; Requirements	S5	Yes	2002- 09-12	
32.662	Telecommunication management; Configuration Management (CM); Kernel CM; Information service (IS)	S5	Yes	2002- 12-12	
32.663	Telecommunication management; Configuration Management (CM); Kernel CM Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2002- 09-12	
32.664	Telecommunication management; Configuration Management (CM); Kernel CM Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2002- 12-12	
32.671	Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP): Requirements	S5	Yes	2002- 03-14	yes
32.672	Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP): Information Service (IS)	S5	Yes	2002- 03-14	-
32.673	Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2002- 03-14	
32.674	Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2002- 03-14	
32.691	Telecommunication management; Inventory Management (IM) network resources Integration Reference Point (IRP): Requirements	S5	Yes	2002- 09-12	
32.692	Telecommunication management; Inventory Management (IM) network resources Integration Reference Point (IRP): Network Resource Model (NRM)	S5	Yes	2002- 09-12	
32.800	Telecommunication management; Management level procedures and interaction with UTRAN	S5	No	2002- 03-14	
32.802	Telecommunication management; User Equipment Management (UEM) feasibility study	S5	No	2002- 06-13	yes
33.203	3G security; Access security for IP-based services	S3	Yes	2002- 03-14	
33.210	3G security; Network Domain Security (NDS); IP network layer security	S3	Yes	2002- 03-14	
34.902	Derivation of test tolerances for multi-cell Radio Resource Model (RRM) conformance tests	R5	Yes	2003- 12-12	
41.031	Fraud Information Gathering System (FIGS); Service requirements; Stage 0	S3	Yes	2002- 03-14	
41.033	Lawful Interception requirements for GSM	S3	Yes	2002- 03-14	yes
41.101	Technical Specifications and Technical Reports for a GERAN-based 3GPP system	SP	Yes	2003- 06-12	yes
42.019	Subscriber Identity Module Application Programming Interface (SIM API); Stage 1	C6	Yes	2002- 03-08	
42.033	Lawful Interception; Stage 1	S3	Yes	2002- 03-14	
42.043	Support of Localised Service Area (SoLSA); Service description; Stage 1	S1	Yes	2002- 06-13	yes
42.056	GSM Cordless Telephony System (CTS), Phase 1; Service description; Stage 1	S1	Yes	2002- 06-13	yes

Number	Title	WG prime	For publication?	freeze date	frozen
42.068	Voice Group Call Service (VGCS); Stage 1	S1	Yes	2002- 06-13	
42.069	Voice Broadcast Service (VBS); Stage 1	Yes	2002- 06-13		
43.005	Technical performance objectives	СР	Yes	2002- 03-08	
43.010	GSM Public Land Mobile Network (PLMN) connection types	C3	Yes	2002- 03-08	
43.013	Discontinuous Reception (DRX) in the GSM system	G1	Yes	2002- 06-28	
43.019	Subscriber Identity Module Application Programming Interface (SIM API) for Java Card; Stage 2	C6	Yes	2002- 03-08	
43.020	Security-related network functions	S3	Yes	2002- 06-13	
43.022	Functions related to Mobile Station (MS) in idle mode and group receive mode	G1	Yes	2002- 06-28	
43.026	Multiband operation of GSM / DCS 1800 by a single operator	G1	Yes	2002- 06-28	
43.030	Radio network planning aspects	G1	Yes	2002- 06-28	
43.033	3G security; Lawful Interception; Stage 2	S3	Yes	2002- 03-14	
43.045	Technical Realization of Facsimile Group 3 Service - transparent	Yes	2002- 03-08		
43.050	Transmission planning aspects of the speech service in the GSM Public Land Mobile Network (PLMN) system	Yes	2002- 03-14		
43.051	GSM/EDGE Radio Access Network (GERAN) overall description; Stage 2	Yes	2002- 04-19		
43.052	Lower layers of the GSM Cordless Telephony System (CTS) radio G1 Yes interface; Stage 2				yes
43.055	Dual Transfer Mode (DTM); Stage 2 G1 Yes				yes
43.058	Characterisation, test methods and quality assessment for handsfree S4 Yes Mobile Stations (MSs)				yes
43.059	Functional stage 2 description of Location Services (LCS) in GERAN	G1	Yes	2002- 04-19	1.
43.064	General Packet Radio Service (GPRS); Overall description of the GPRS radio interface; Stage 2	G1	Yes	2002- 04-19	
43.068	Voice Group Call Service (VGCS); Stage 2	C1	Yes	2002- 03-08	
43.069	Voice Broadcast service (VBS); Stage 2	C1	Yes	2002- 03-08	yes
43.073	Support of Localised Service Area (SoLSA); Stage 2 C4 Yes		Yes	2002- 06-13	yes
43.130	lur-g interface; Stage 2 G1 Yes				yes
44.001	Mobile Station - Base Station System (MS - BSS) Interface General C1 Yes Aspects and Principles			2002- 03-08	yes
44.003	Mobile Station - Base Station System (MS - BSS) Interface Channel G2 Structures and Access Capabilities				yes
44.004	Layer 1; General Requirements G2 Yes				yes
44.005	Data Link (DL) Layer General Aspects	G2	Yes	04-19 2002- 08-30	yes
44.006	Mobile Station - Base Stations System (MS - BSS) interface Data Link (DL) layer specification	G2	Yes	2002- 08-30	yes
44.012	Short Message Service Cell Broadcast (SMSCB) support on the mobile radio interface	G2	Yes	2002- 08-30	yes

Number	Title	WG prime	For publication?	freeze date	frozen		
44.013	Performance Requirements on Mobile Radio Interface	C1	Yes	2002- 03-08			
44.014	Individual equipment type requirements and interworking; Special conformance testing functions	G2	Yes	2002- 08-30			
44.018	Mobile radio interface layer 3 specification; Radio Resource Control G2 Yes (RRC) protocol						
44.021	Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface	C3	Yes	2002- 03-08			
44.031	Location Services (LCS); Mobile Station (MS) - Serving Mobile Location Centre (SMLC) Radio Resource LCS Protocol (RRLP)	G2	Yes	2002- 04-19			
44.035	Location Services (LCS); Broadcast network assistance for Enhanced Observed Time Difference (E-OTD) and Global Positioning System (GPS) positioning methods	G2	Yes	2002- 08-30			
44.056	GSM Cordless Telephony System (CTS), (Phase 1) CTS Radio Interface Layer 3 Specification	C1	Yes	2002- 03-08			
44.057	GSM Cordless Telephony System (CTS), (Phase 1) CTS CTS supervising system Layer 3 Specification	C1	Yes	2002- 03-08			
44.060	General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control / Medium Access Control (RLC/MAC) protocol	G2	Yes	2002- 04-19			
44.064	Mobile Station - Serving GPRS Support Node (MS-SGSN); Logical Link Control (LLC) Layer Specification	C1	Yes	2002- 03-08			
44.065	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCP)	C1	Yes	2002- 03-08			
44.068	Group Call Control (GCC) Protocol	C1	Yes	2002- 03-08	1.		
44.069	Broadcast Call Control (BCC) protocol	Yes	2002- 03-08				
44.071	Location Services (LCS); Mobile radio interface layer 3 LCS specification	Yes	2002- 08-30	12			
44.118	Mobile radio interface layer 3 specification, Radio Resource Control (RRC) protocol; lu mode	G2	Yes	2002- 04-19			
44.160	General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/ Medium Access Control (RLC/MAC) protocol for lu mode						
44.901	External Network Assisted Cell Change (NACC)	G2	Yes	2002- 04-19			
45.001	Physical layer on the radio path; General description	G1	Yes	2002- 04-19			
45.002	Multiplexing and multiple access on the radio path	G1	Yes	2002- 04-19			
45.003	Channel coding	G1	Yes	2002- 04-19			
45.004	Modulation	Yes	2002- 04-19				
45.005	Radio transmission and reception	G1	Yes	2002- 04-19			
45.008	Radio subsystem link control G1 Yes				yes		
45.009	Link adaptation G1 Yes				yes		
45.010	Radio subsystem synchronization	G1	Yes	2002- 06-28	yes		
45.015	Release independent Downlink Advanced Receiver Performance (DARP); Implementation guidelines	G1	Yes	2004- 11-12	yes		
45.022	Radio link management in hierarchical networks	Yes	2002- 06-28	yes			
45.050	Background for RF Requirements	G1	Yes	2002-	_		

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				06-28	
45.056	CTS-FP Radio Sub-system	Yes	2002- 06-28		
46.001	Full rate speech; Processing functions	S4	Yes	2002- 06-13	
46.002	Half rate speech; Half rate speech processing functions	S4	Yes	2002- 06-13	
46.006	Half-rate speech: ANSI-C code for GSM half-rate speech codec	S4	Yes	2002- 06-13	
46.007	Half rate speech; Test sequences for the GSM half rate speech codec	S4	Yes	2002- 06-13	
46.008	Half Rate Speech; Performance Characterization of the GSM Half Rate speech codec	S4	Yes	2002- 06-13	
46.010	Full-rate speech; Transcoding	S4	Yes	2002- 06-13	
46.011	Full rate speech; Substitution and muting of lost frames for full rate speech channels	S4	Yes	2002- 06-13	
46.012	Full rate speech; Comfort noise aspect for full rate speech traffic channels	S4	Yes	2002- 06-13	
46.020	Half rate speech; Half rate speech transcoding	S4	Yes	2002- 06-13	
46.021	Half rate speech; Substitution and muting of lost frames for half rate speech traffic channels	Yes	2002- 06-13		
46.022	Half rate speech; Comfort noise aspects for the half rate speech traffic channels	Yes	2002- 06-13		
46.031	Full rate speech; Discontinuous Transmission (DTX) for full rate S4 Yes speech traffic channels				yes
46.032	Full rate speech; Voice Activity Detector (VAD) for full rate speech traffic channels				yes
46.041	Half rate speech; Discontinuous Transmission (DTX) for half rate S4 Yes speech traffic channels				yes
46.042	Half rate speech; Voice Activity Detector (VAD) for half rate speech traffic channels				yes
46.051	Enhanced Full Rate (EFR) speech processing functions; General description				yes
46.053	ANSI-C code for the GSM Enhanced Full Rate (EFR) speech codec S4 Yes		Yes	2002- 06-13	
46.054	Test sequences for the GSM Enhanced Full Rate (EFR) speech codec	S4	Yes	2002- 06-13	
46.055	Performance characterization of the GSM Enhanced Full Rate (EFR) speech codec	S4	Yes	2002- 06-13	
46.060	Enhanced Full Rate (EFR) speech transcoding	S4	Yes	2002- 06-13	
46.061	Substitution and muting of lost frames for Enhanced Full Rate (EFR) speech traffic channels	S4	Yes	2002- 06-13	
46.062	Comfort noise aspects for Enhanced Full Rate (EFR) speech traffic S4 Yes channels			2002- 06-13	
46.076	Adaptive Multi-Rate (AMR) speech codec; Study phase report S4 Yes				yes
46.081	Discontinuous Transmission (DTX) for Enhanced Full Rate (EFR) speech traffic channels	2002- 06-13			
46.082	Voice Activity Detector (VAD) for Enhanced Full Rate (EFR) speech traffic channels	Yes	2002- 06-13		
46.085	Subjective tests on the interoperability of the Half Rate / Full Rate / S4 Enhanced Full Rate (HR/FR/EFR) speech codecs, single, tandem and tandem free operation				
48.001	Base Station System - Mobile-services Switching Centre (BSS - MSC) interface; General aspects	G2	Yes	2002- 08-30	

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48.002	Base Station System - Mobile-services Switching Centre (BSS - MSC) interface; Interface principles	G2	Yes	2002- 04-19				
48.004	Base Station System - Mobile-services Switching Centre (BSS - MSC) G2 Yes interface; Layer 1 specification							
48.006	Signalling Transport Mechanism Specification for the Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface Yes							
48.008	Mobile Switching Centre - Base Station system (MSC-BSS) interface; Layer 3 specification	G2	Yes	2002- 04-19				
48.014	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) interface; Gb interface Layer 1	G2	Yes	2002- 08-30				
48.016	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) interface; Network service	G2	Yes	2002- 04-19				
48.018	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN); BSS GPRS protocol (BSSGP)	G2	Yes	2002- 04-19	1-			
48.020	Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface	C3	Yes	2002- 03-08				
48.031	Location Services LCS: Serving Mobile Location Centre - Serving Mobile Location Centre (SMLC - SMLC); SMLCPP specification	G2	Yes	2002- 06-28				
48.051	Base Station Controller - Base Transceiver Station (BSC-BTS) interface; General aspects	G2	Yes	2002- 08-30				
48.052	Base Station Controller - Base Transceiver Station (BSC-BTS) interface; Interface principles	G2	Yes	2002- 08-30				
48.054	Base Station Controller - Base Transceiver Station (BSC - BTS) G2 Yes interface; Layer 1 structure of physical circuits							
48.056	Base Station Controller - Base Transceiver Station (BSC - BTS) G2 Yes interface; Layer 2 specification							
48.058	Base Station Controller - Base Transceiver Station (BCS-BTS) Interface Layer 3 Specification							
48.060	In-band control of remote transcoders and rate adaptors for full rate traffic channels							
48.061	In-band control of remote transcoders and rate adaptors for half rate G1 Yes traffic channels							
48.071	Location Services (LCS); Serving Mobile Location Centre - Base Station System (SMLC-BSS) interface; Layer 3 specification							
49.001	General network interworking scenarios C4 Yes							
49.008	Application of the Base Station System Application Part (BSSAP) on C1 Yes the E-Interface							
49.031	Location Services (LCS); Base Station System Application Part LCS Extension (BSSAP-LE)	G2	Yes	2002- 04-19				
49.995	General Packet Radio Service (GPRS); Interworking between modified Public Land Mobile Network (PLMN) supporting GPRS and legacy GPRS mobiles							
51.010-1	Mobile Station (MS) conformance specification; Part 1: Conformance G3new Yes specification							
51.010-2	Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification							
51.010-3	Mobile Station (MS) conformance specification; Part 3: Layer3 (L3) Abstract Test Suite (ATS) G3new Yes							
51.013	Test specification for Subscriber Identity Module (SIM) Application C6 Yes Programming Interface (API) for Java Card							
51.021	Base Station System (BSS) equipment specification; Radio aspects	G1	Yes	2002- 06-28				
51.026	Base Station System (BSS) equipment specification; Part 4: Repeaters G1 Yes							
52.021	Network Management (NM) Procedures and messages on the A-bis G1 Yes interface							

Number	Title	WG prime	For publication?	freeze date	frozen
52.402	Telecommunication management; Performance Management (PM); Performance measurements - GSM	S5	Yes	2002- 12-12	
55.216	Specification of the A5/3 encryption algorithms for GSM and ECSD, and the GEA3 encryption algorithm for GPRS; Document 1: A5/3 and GEA3 specification	S3	No	2004- 12-16	l'
55.217	Specification of the A5/3 encryption algorithms for GSM and ECSD, and the GEA3 encryption algorithm for GPRS; Document 2: Implementors' test data	S3	No	2004- 12-16	ا ت دا
55.218	Specification of the A5/3 encryption algorithms for GSM and ECSD, and the GEA3 encryption algorithm for GPRS; Document 3: Design and conformance test data	S3	No	2004- 12-16	
55.919	Specification of the A5/3 encryption algorithms for GSM and ECSD, and the GEA3 encryption algorithm for GPRS; Document 4: Design and evaluation report	S3	No	2004- 12-16	

Annex A (informative): Change history

	Change history						
Date	TSG#	TSG Doc.	CR	Rev	Subject/Comment	New version	
2001-06	SP-12	SP-010278	-	-	First draft	3GPP TS	
						41.103	
						version	
						0.0.0	
2001-06-20	SP-12	SP-010384			updates table of specs	0.1.0	
2001-09-12	SP-13	SP-010421			updates table of specs	1.0.0	
2002-03-04	SP-15	SP-020098			updates table of specs; adds columns for freeze info	1.1.0	
2002-03-13	SP-15	SP-020203			updates table of specs	1.2.0	
2002-06-03	SP-16	SP-020274			updates table of specs, minor corrections	2.0.0	
2002-06-11	SP-16	SP-020401			updates table of specs, minor corrections	2.1.0	
2002-06-12	SP-16	SP-020411			updates table of specs; sets unknown freeze target dates blank	2.2.0	
	SP-16				approved	5.0.0	
2002-09	SP-17	SP-020616	001	1	update list of specs; editorial corrections to spec titles	5.1.0	
2002-12	SP-18	SP-020833	002	1	Correction to list of specs, editorial corrections to spec titles	5.2.0	
2003-03	SP-19	SP-030077	003	1	Correction to list of specs, editorial corrections to spec titles	5.3.0	
2003-06	SP-20	SP-030229	004		Correction to list of specs	3GPP TS	
		SP-030235			Renumber from 41.103 to 41.101	41.101	
						version	
						5.4.0	
2003-12	SP-22	SP-030574	001		Correction to list of specs, editorial corrections to spec titles	5.5.0	
2004-01					Correction to typo in previous line of this table.	5.5.1	
2004-01					Correction to typo on cover page	5.5.2	
2004-03	SP-23	SP-040221	003		Corrections to list of specifications	5.6.0	
2004-06	SP-24	SP-040358	005		Corrections to list of specifications	5.7.0	
2004-09	SP-25	SP-040604	006		Corrections to list of specifications	5.8.0	
2004-12	SP-26	SP-040880	008	1	Corrections to list of specifications	5.9.0	
2005-03	SP-27	SP-040126	011		Corrections to list of specifications	5.10.0	
2005-09	SP-29	SP-050462	015		Corrections to list of specifications	5.11.0	
2007-03	SP-35	SP-070188	023		Corrections to list of specifications	5.12.0	
2007-12	SP-38	SP-070770	028		Corrections to list of specifications	5.13.0	
			032		Update of informative text		

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