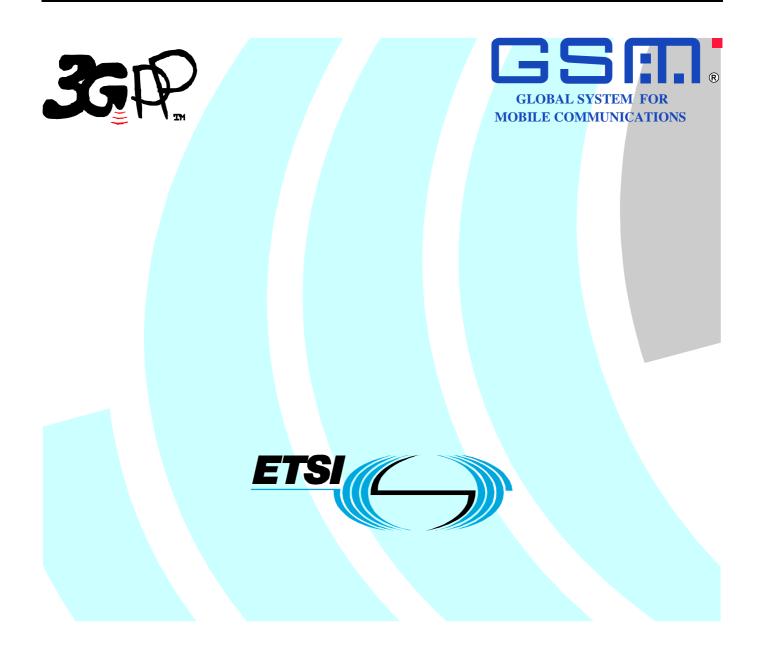# ETSI TS 141 101 V6.0.0 (2004-12)

Technical Specification

Digital cellular telecommunications system (Phase 2+);
Technical Specifications and Technical Reports
for a GERAN-based 3GPP system
(3GPP TS 41.101 version 6.0.0 Release 6)

Reference
RTS/TSGS-0041101v600

Keywords
GSM

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00   Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

Individual copies of the present document can be downloaded from:
http://www.etsi.org

The present document may be made available in more than one electronic version or in print. In any case of existing or
perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF).
In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive
within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.
Information on the current status of this and other ETSI documents is available at
http://portal.etsi.org/tb/status/status.asp

If you find errors in the present document, please send your comment to one of the following services:
http://portal.etsi.org/chaircor/ETSI_support.asp

Copyright Notification

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: *"Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards"*, which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (http://webapp.etsi.org/IPR/home.asp).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

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

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 .

Contents

Foreword

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

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

x   the first digit:

1   presented to TSG for information;

2   presented to TSG for approval;

3   or greater indicates TSG approved document under change control.

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 GSM system specifications for Release 5. The specifications and reports of 3GPP Release 5 have a major version number 5 (e.g. 5.x.y).

Most of the core Release 5 Technical Specifications and Technical Reports were functionally frozen at either the 15th Technical Specification Group meetings in March 2002 or the 16th in June 2002.

NOTE 1: Functionally frozen means that no further functionality/features may be incorporated into the set of specifications, and that only corrective Change Requests (CRs) are to be accepted and agreed.

NOTE 2: It can be expected that corrective CRs will be introduced into the Release 5 version 5.x.y specifications throughout 2002 and beyond.

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

GSM Release 5 consists of GSM-only specifications and common specifications developed for both GSM Release 5 and Release 5 of the 3rd Generation mobile system.

The present document identifies the GSM system set of specifications required to implement GSM Release 5.

Specifications for GSM-only Release 5 can be identified by the "**ab.cde"** numbering scheme where "ab" is in the range 41 to 52.

Specifications for both GSM Release 4 and Release 5 of the 3rd Generation mobile system are identified by the "**ab.cde"** numbering scheme where "ab" is in the range 21 to 35.

A more detailed description of the specification numbering scheme is given 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 colunms), see 3GPP TS 21.900 [2].

Number	Title	WG prime	For pub-lication?	freeze date	frozen
21.801	Specification drafting rules	SP	No	2004-12-16	yes
21.900	Technical Specification Group working methods	SP	Yes	2004-12-16	yes
21.905	Vocabulary for 3GPP Specifications	S1	Yes	2003-12-18	yes
22.001	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)	S1	Yes	2004-12-16	yes
22.002	Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN)	S1	Yes	2004-12-16	yes
22.003	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	S1	Yes	2004-12-16	yes
22.004	General on supplementary services	S1	Yes	2004-12-16	yes
22.011	Service accessibility	S1	Yes	2004-12-16	yes
22.016	International Mobile Equipment Identities (IMEI)	S1	Yes	2004-12-16	yes
22.022	Personalisation of Mobile Equipment (ME); Mobile functionality specification	S3	Yes	2004-12-16	yes
22.024	Description of Charge Advice Information (CAI)	S1	Yes	2004-12-16	yes
22.030	Man-Machine Interface (MMI) of the User Equipment (UE)	S1	Yes	2004-12-16	yes
22.031	Fraud Information Gathering System (FIGS); Service description; Stage 1	S3	Yes	2004-12-16	yes
22.032	Immediate Service Termination (IST); Service description; Stage 1	S3	Yes	2004-12-16	yes
22.034	High Speed Circuit Switched Data (HSCSD); Stage 1	S1	Yes	2004-12-16	yes
22.038	USIM/SIM Application Toolkit (USAT/SAT); Service description; Stage 1	S1	Yes	2004-12-16	yes
22.041	Operator Determined Call Barring	S1	Yes	2004-12-16	yes
22.042	Network Identity and Time Zone (NITZ) service description; Stage 1	S1	Yes	2004-12-16	yes
22.048	Security mechanisms for the (U)SIM application toolkit; Stage 1	T3	Yes	2004-12-10	yes
22.053	Tandem Free Operation (TFO); Service description; Stage 1	S4	Yes	2004-12-16	yes
22.057	Mobile Execution Environment (MExE) service description; Stage 1	S1	Yes	2004-12-16	yes
22.060	General Packet Radio Service (GPRS); Service description; Stage 1	S1	Yes	2004-12-16	yes
22.066	Support of Mobile Number Portability (MNP); Stage 1	S1	Yes	2004-12-16	yes
22.067	enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 1	S1	Yes	2004-12-16	yes
22.071	Location Services (LCS); Stage 1	S1	Yes	2004-12-16	yes
22.072	Call Deflection (CD); Stage 1	S1	Yes	2004-12-16	yes
22.076	Noise suppression for the AMR codec; Service description; Stage 1	S4	Yes	2004-12-16	yes
22.078	Customized Applications for Mobile network Enhanced Logic (CAMEL); Service description; Stage 1	S1	Yes	2004-12-16	yes
22.079	Support of optimal routeing; Stage 1	S1	Yes	2004-12-16	yes
22.081	Line Identification supplementary services; Stage 1	S1	Yes	2004-12-16	yes
22.082	Call Forwarding (CF) Supplementary Services; Stage 1	S1	Yes	2004-12-16	yes
22.083	Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 1	S1	Yes	2004-12-16	yes
22.084	MultiParty (MPTY) supplementary service; Stage 1	S1	Yes	2004-12-16	yes
22.085	Closed User Group (CUG) supplementary services; Stage 1	S1	Yes	2004-12-16	yes
22.086	Advice of Charge (AoC) supplementary services; Stage 1	S1	Yes	2004-12-16	yes

Number	Title	WG prime	For publication?	freeze date	frozen
22.087	User-to-user signalling (UUS); Stage 1	S1	Yes	2004-12-16	yes
22.088	Call Barring (CB) supplementary services; Stage 1	S1	Yes	2004-12-16	yes
22.090	Unstructured Supplementary Service Data (USSD); Stage 1	S1	Yes	2004-12-16	yes
22.091	Explicit Call Transfer (ECT) supplementary service; Stage 1	S1	Yes	2004-12-16	yes
22.093	Completion of Calls to Busy Subscriber (CCBS); Service description, Stage 1	S1	Yes	2004-12-16	yes
22.094	Follow Me service description - Stage 1	S1	Yes	2004-12-16	yes
22.096	Name identification supplementary services; Stage 1	S1	Yes	2004-12-16	yes
22.097	Multiple Subscriber Profile (MSP) Phase 1; Service description - Stage 1	S1	Yes	2004-12-16	yes
22.115	Service Aspects Charging and billing	S1	Yes	2004-12-16	yes
22.129	Handover requirements between UTRAN and GERAN or other radio systems	S1	Yes	2004-12-16	yes
22.174	Push service; Stage 1	S1	Yes	2004-12-16	yes
22.226	Global text telephony (GTT); Stage 1: Service description	S1	Yes	2004-12-16	yes
22.228	Service requirements for the Internet Protocol (IP) multimedia core network subsystem (IMS); Stage 1	S1	Yes	2004-12-16	yes
22.243	Speech recognition framework for automated voice services; Stage 1	S1	Yes	2004-12-16	yes
22.246	Multimedia Broadcast/Multicast Service (MBMS) user services; Stage 1	S1	Yes	2004-12-16	yes
22.857	Run-time independent framework feasibility study	T2	No	2004-12-10	yes
22.950	Priority service feasibility study	S1	Yes	2004-12-16	yes
22.951	Service aspects and requirements for network sharing	S1	Yes	2004-12-16	yes
22.952	Priority service guide	S1	Yes	2004-12-16	yes
23.002	Network architecture	S2	Yes	2004-12-16	yes
23.003	Numbering, addressing and identification	N4	Yes	2004-12-10	yes
23.007	Restoration procedures	N4	Yes	2004-12-10	yes
23.008	Organisation of subscriber data	N4	Yes	2004-12-10	yes
23.009	Handover procedures	N1	Yes	2004-12-10	yes
23.011	Technical realization of Supplementary Services	N4	Yes	2004-12-10	yes
23.012	Location management procedures	N4	Yes	2004-12-10	yes
23.014	Support of Dual Tone Multi Frequency (DTMF) signalling	N1	Yes	2004-12-10	yes
23.015	Technical realization of Operator Determined Barring (ODB)	N4	Yes	2004-12-10	yes
23.016	Subscriber data management; Stage 2	N4	Yes	2004-12-10	yes
23.018	Basic Call Handling; Technical realization	N4	Yes	2004-12-10	yes
23.031	Fraud Information Gathering System (FIGS); Service description; Stage 2	S3	Yes	2004-12-16	yes
23.032	Universal Geographical Area Description (GAD)	S2	Yes	2004-12-16	yes
23.034	High Speed Circuit Switched Data (HSCSD); Stage 2	N1	Yes	2004-12-10	yes
23.035	Immediate Service Termination (IST); Stage 2	S3	Yes	2004-12-16	yes
23.038	Alphabets and language-specific information	T2	Yes	2004-12-10	yes
23.040	Technical realization of Short Message Service (SMS)	T2	Yes	2004-12-10	yes
23.041	Technical realization of Cell Broadcast Service (CBS)	T2	Yes	2004-12-10	yes
23.042	Compression algorithm for SMS	T2	Yes	2004-12-10	yes
23.053	Tandem Free Operation (TFO); Service description; Stage 2	S4	Yes	2004-12-16	yes
23.057	Mobile Execution Environment (MExE); Functional description; Stage 2	T2	Yes	2004-12-10	yes
23.060	General Packet Radio Service (GPRS); Service description; Stage 2	S2	Yes	2004-12-16	yes
23.066	Support of GSM Mobile Number Portability (MNP) stage 2	N4	Yes	2004-12-10	yes
23.067	Enhanced Multi-Level Precedence and Pre-emption Service (eMLPP); Stage 2	N4	Yes	2004-12-10	yes
23.072	Call Deflection Supplementary Service; Stage 2	N4	Yes	2004-12-10	yes
23.078	customized Applications for Mobile network Enhanced Logic (CAMEL);	N4	Yes	2004-12-10	yes

Number	Title	WG prime	For publication?	freeze date	frozen
	Stage 2				
23.079	Support of Optimal Routeing (SOR); Technical realization; Stage 2	N4	Yes	2004-12-10	yes
23.081	Line Identification supplementary services; Stage 2	N4	Yes	2004-12-10	yes
23.082	Call Forwarding (CF) Supplementary Services; Stage 2	N4	Yes	2004-12-10	yes
23.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 2	N4	Yes	2004-12-10	yes
23.084	MultiParty (MPTY) Supplementary Service; Stage 2	N4	Yes	2004-12-10	yes
23.085	Closed User Group (CUG) Supplementary Service; Stage 2	N4	Yes	2004-12-10	yes
23.086	Advice of Charge (AoC) Supplementary Service; Stage 2	N4	Yes	2004-12-10	yes
23.087	User-to-User Signalling (UUS) supplementary service; Stage 2	N4	Yes	2004-12-10	yes
23.088	Call Barring (CB) Supplementary Service; Stage 2	N4	Yes	2004-12-10	yes
23.090	Unstructured Supplementary Service Data (USSD); Stage 2	N4	Yes	2004-12-10	yes
23.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 2	N4	Yes	2004-12-10	yes
23.093	Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2	N4	Yes	2004-12-10	yes
23.094	Follow Me Stage 2	N4	Yes	2004-12-10	yes
23.096	Name Identification Supplementary Service; Stage 2	N4	Yes	2004-12-10	yes
23.097	Multiple Subscriber Profile (MSP) Phase 1; Stage 2	N4	Yes	2004-12-10	yes
23.108	Mobile radio interface layer 3 specification core network protocols; Stage 2 (structured procedures)	N1	Yes	2004-12-10	yes
23.110	UMTS Access Stratum Services and Functions	S2	Yes	2004-12-16	yes
23.116	Super-Charger technical realization; Stage 2	N4	Yes	2004-12-10	yes
23.119	Gateway Location Register (GLR); Stage2	N4	Yes	2004-12-10	yes
23.122	Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	N1	Yes	2004-12-10	yes
23.140	Multimedia Messaging Service (MMS); Functional description; Stage 2	T2	Yes	2004-12-10	yes
23.195	Provision of User Equipment Specific Behaviour Information (UESBI) to network entities	S2	Yes	2004-12-16	yes
23.207	End-to-end Quality of Service (QoS) concept and architecture	S2	Yes	2004-12-16	yes
23.218	IP Multimedia (IM) session handling; IM call model; Stage 2	N1	Yes	2004-12-10	yes
23.221	Architectural requirements	S2	Yes	2004-12-16	yes
23.226	Global text telephony (GTT); Stage 2: Architecture	S2	Yes	2004-12-16	yes
23.228	IP Multimedia Subsystem (IMS); Stage 2	S2	Yes	2004-12-16	yes
23.236	Intra-domain connection of Radio Access Network (RAN) nodes to multiple Core Network (CN) nodes	S2	Yes	2004-12-16	yes
23.271	Location Services (LCS); Functional description; Stage 2	S2	Yes	2004-12-16	yes
23.278	customized Applications for Mobile network Enhanced Logic (CAMEL) - IP Multimedia System (IMS) interworking; Stage 2	N4	Yes	2004-12-10	yes
23.851	Network sharing; Architecture and functional description	S2	No	2004-12-16	yes
24.002	GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration	N1	Yes	2004-12-10	yes
24.007	Mobile radio interface signalling layer 3; General Aspects	N1	Yes	2004-12-10	yes
24.008	Mobile radio interface Layer 3 specification; Core network protocols; Stage 3	N1	Yes	2004-12-10	yes
24.010	Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects	N4	Yes	2004-12-10	yes
24.011	Point-to-Point (PP) Short Message Service (SMS) support on Mobile Radio Interface	N1	Yes	2004-12-10	yes
24.022	Radio Link Protocol (RLP) for circuit switched bearer and teleservices	N3	Yes	2004-12-10	yes
24.030	Location Services (LCS); Supplementary service operations; Stage 3	N4	Yes	2004-12-10	yes
24.067	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3	N4	Yes	2004-12-10	yes
24.072	Call Deflection Supplementary Service; Stage 3	N4	Yes	2004-12-10	yes
24.080	Mobile radio Layer 3 supplementary service specification; Formats and	N4	Yes	2004-12-10	yes

Number	Title	WG prime	For pub-lication?	freeze date	frozen
	coding				
24.081	Line Identification Supplementary Service; Stage 3	N4	Yes	2004-12-10	yes
24.082	Call Forwarding supplementary service; Stage 3	N4	Yes	2004-12-10	yes
24.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3	N4	Yes	2004-12-10	yes
24.084	MultiParty (MPTY) Supplementary Service; Stage 3	N4	Yes	2004-12-10	yes
24.085	Closed User Group (CUG) Supplementary Service; Stage 3	N4	Yes	2004-12-10	yes
24.086	Advice of Charge (AoC) Supplementary Service; Stage 3	N4	Yes	2004-12-10	yes
24.087	User-to-User Signalling (UUS); Stage 3	N4	Yes	2004-12-10	yes
24.088	Call Barring (CB) Supplementary Service; Stage 3	N4	Yes	2004-12-10	yes
24.090	Unstructured Supplementary Service Data (USSD); Stage 3	N4	Yes	2004-12-10	yes
24.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 3	N4	Yes	2004-12-10	yes
24.093	Call Completion to Busy Subscriber (CCBS); Stage 3	N4	Yes	2004-12-10	yes
24.096	Name Identification Supplementary Service; Stage 3	N4	Yes	2004-12-10	yes
24.141	Presence service using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3	N1	Yes	2004-12-10	yes
24.147	Conferencing using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3	N1	Yes	2004-12-10	yes
24.229	Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3	N1	Yes	2004-12-10	yes
24.841	Presence service based on Session Initiation Protocol (SIP); Functional models, information flows and protocol details	N1	No	2004-12-10	yes
25.901	Network Assisted Cell Change (NACC) from UTRAN to GERAN; Network side aspects	R3	Yes	2004-12-10	yes
25.992	Multimedia Broadcast/Multicast Service (MBMS); UTRAN/GERAN requirements	RP	Yes	2004-12-10	yes
26.071	AMR speech Codec; General description	S4	Yes	2004-12-16	yes
26.073	AMR speech Codec; C-source code	S4	Yes	2004-12-16	yes
26.074	AMR speech Codec; Test sequences	S4	Yes	2004-12-16	yes
26.077	Minimum performance requirements for noise suppresser application to the Adaptive Multi-Rate (AMR) speech encoder	S4	Yes	2004-12-16	yes
26.090	AMR speech Codec; Transcoding Functions	S4	Yes	2004-12-16	yes
26.091	AMR speech Codec; Error concealment of lost frames	S4	Yes	2004-12-16	yes
26.092	AMR speech Codec; comfort noise for AMR Speech Traffic Channels	S4	Yes	2004-12-16	yes
26.093	AMR speech Codec; Source Controlled Rate operation	S4	Yes	2004-12-16	yes
26.094	AMR Speech Codec; Voice Activity Detector for AMR Speech Traffic Channels	S4	Yes	2004-12-16	yes
26.102	Adaptive Multi-Rate (AMR) speech codec; Interface to Iu and Uu	S4	Yes	2004-12-16	yes
26.103	Speech codec list for GSM and UMTS	S4	Yes	2004-12-16	yes
26.104	ANSI-C code for the floating-point Adaptive Multi-Rate (AMR) speech codec	S4	Yes	2004-12-16	yes
26.110	Codec for circuit switched multimedia telephony service; General description	S4	Yes	2004-12-16	yes
26.111	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	S4	Yes	2004-12-16	yes
26.140	Multimedia Messaging Service (MMS); Media formats and codes	S4	Yes	2004-12-16	yes
26.171	AMR speech codec, wideband; General description	S4	Yes	2004-12-16	yes
26.173	ANSI-C code for the Adaptive Multi-Rate - Wideband (AMR-W) speech codec	S4	Yes	2004-12-16	yes
26.174	AMR speech codec, wideband; Test sequences	S4	Yes	2004-12-16	yes
26.190	Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Transcoding functions	S4	Yes	2004-12-16	yes
26.191	AMR speech codec, wideband; Error concealment of lost frames	S4	Yes	2004-12-16	yes
26.192	Mandatory Speech Codec speech processing functions AMR	S4	Yes	2004-12-16	yes

Number	Title	WG prime	For pub-lication?	freeze date	frozen
	Wideband Speech Codec; Comfort noise aspects				
26.193	AMR speech codec, wideband; Source Controlled Rate operation	S4	Yes	2004-12-16	yes
26.194	Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Voice Activity Detector (VAD)	S4	Yes	2004-12-16	yes
26.201	AMR speech codec, wideband; Frame structure	S4	Yes	2004-12-16	yes
26.202	AMR speech codec, wideband; Interface to Iu and Uu	S4	Yes	2004-12-16	yes
26.204	ANSI-C code for the floating-point Adaptive Multi-Rate - Wideband (AMR-W) speech codec	S4	Yes	2004-12-16	yes
26.226	Cellular text telephone modem; General description	S4	Yes	2004-12-16	yes
26.230	Cellular text telephone modem; Transmitter bit exact C-code	S4	Yes	2004-12-16	yes
26.231	Global text telephony (GTT); Cellular text telephone modem minimum performance requirements	S4	Yes	2004-12-16	yes
26.235	Packet switched conversational multimedia applications; Default codecs	S4	Yes	2004-12-16	yes
26.243	ANSI C code for the fixed-point distributed speech recognition extended advanced front-end	S4	Yes	2004-12-16	yes
26.911	Codec for Circuit switched Multimedia Telephony Service;Terminal Implementor"s Guide	S4	Yes	2004-12-16	yes
26.943	Recognition performance evaluations of codecs for Speech Enabled Services (SES)	S4	Yes	2004-12-16	yes
26.975	Performance characterization of the Adaptive Multi-Rate (AMR) speech codec	S4	Yes	2004-12-16	yes
26.976	Performance characterization of the Adaptive Multi-Rate Wideband (AMR-WB) speech codec	S4	Yes	2004-12-16	yes
26.978	Results of the AMR noise suppression selection phase	S4	Yes	2004-12-16	yes
27.001	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	N3	Yes	2004-12-10	yes
27.002	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	N3	Yes	2004-12-10	yes
27.003	Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities	N3	Yes	2004-12-10	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)	T2	Yes	2004-12-10	yes
27.007	AT command set for User Equipment (UE)	T2	Yes	2004-12-10	yes
27.010	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	T2	Yes	2004-12-10	yes
27.060	Packet domain; Mobile Station (MS) supporting Packet Switched services	N3	Yes	2004-12-10	yes
28.062	Inband Tandem Free Operation (TFO) of speech codecs; Service description; Stage 3	S4	Yes	2004-12-16	yes
29.002	Mobile Application Part (MAP) specification	N4	Yes	2004-12-10	yes
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)	N3	Yes	2004-12-10	yes
29.010	Information Element Mapping between Mobile Station - Base Station System (MS - BSS) and Base Station System - Mobile-services Switching Centre (BSS - MCS) Signalling Procedures and the Mobile Application Part (MAP)	N4	Yes	2004-12-10	yes
29.011	Signalling Interworking for Supplementary Services	N4	Yes	2004-12-10	yes
29.013	Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols	N4	Yes	2004-12-10	yes
29.016	Serving GPRS Support Node SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification	N1	Yes	2004-12-10	yes
29.018	General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification	N1	Yes	2004-12-10	yes

Number	Title	WG prime	For pub-lication?	freeze date	frozen
29.060	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface	N4	Yes	2004-12-10	yes
29.061	Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)	N3	Yes	2004-12-10	yes
29.078	customized Applications for Mobile network Enhanced Logic (CAMEL); CAMEL Application Part (CAP) specification	N4	Yes	2004-12-10	yes
29.109	Generic Authentication Architecture (GAA); Zh and Zn Interfaces based on the Diameter protocol; Stage 3	N4	Yes	2004-12-10	yes
29.162	Interworking between the IM CN subsystem and IP networks	N3	Yes	2004-12-10	yes
29.163	Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks	N3	Yes	2004-12-10	yes
29.207	Policy control over Go interface	N3	Yes	2004-12-10	yes
29.208	End to end Quality of Service (QoS) signalling flows	N3	Yes	2004-12-10	yes
29.228	IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Signalling flows and message contents	N4	Yes	2004-12-10	yes
29.229	Cx and Dx interfaces based on the Diameter protocol; Protocol details	N4	Yes	2004-12-10	yes
29.230	Diameter applications; 3GPP specific codes and identifiers	N4	Yes	2004-12-10	yes
29.278	customized Applications for Mobile network Enhanced Logic (CAMEL); CAMEL Application Part (CAP) specification for IP Multimedia Subsystems (IMS)	N4	Yes	2004-12-10	yes
29.328	IP Multimedia Subsystem (IMS) Sh interface signalling flows and message contents	N4	Yes	2004-12-10	yes
29.329	Sh interface based on the Diameter protocol	N4	Yes	2004-12-10	yes
29.846	Multimedia Broadcast/Multicast Service (MBMS); CN1 procedure description	N1	No	2004-12-10	yes
29.994	Recommended infrastructure measures to overcome specific Mobile Station (MS) and User Equipment (UE) faults	N1	Yes	2004-12-10	yes
30.902	Guidelines for the modification of the Mobile Application Part (MAP)	N4	No	2004-12-10	yes
31.048	Security mechanisms for the (U)SIM application toolkit; Test specification	T3	Yes	2004-12-10	yes
31.103	Characteristics of the IP Multimedia Services Identity Module (ISIM) application	T3	Yes	2004-12-10	yes
31.111	Universal Subscriber Identity Module Application Toolkit (USAT)	T3	Yes	2004-12-10	yes
31.116	Remote APDU Structure for (Universal) Subscriber Identity Module (U)SIM Toolkit applications	T3	Yes	2004-12-10	yes
31.130	(U)SIM Application Programming Interface API; (U)SIM API for Java Card(TM)	T3	Yes	2004-12-10	yes
31.919	2G/3G Java Card(TM) Application Programming Interface (API) based applet interworking	T3	Yes	2004-12-10	yes
32.111-1	Telecommunication management; Fault Management; Part 1: 3G fault management requirements	S5	Yes	2004-12-16	yes
32.111-2	Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point (IRP): Information Service (IS)	S5	Yes	2004-12-16	yes
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	2004-12-16	yes
32.111-4	Telecommunication management; Fault Management; Part 4: Alarm Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.111-5	Telecommunication management; Fault Management; Part 5: Alarm Integration Reference Point (IRP): eXtensible Markup Language (XML) definitions	S5	Yes	2004-12-16	yes
32.140	Telecommunication management; Subscription Management (SuM) requirements	S5	Yes	2004-12-16	yes
32.141	Telecommunication management; Subscription Management (SuM) architecture	S5	Yes	2004-12-16	yes
32.150	Telecommunication management; Integration Reference Point (IRP)	S5	Yes	2004-12-16	yes

Number	Title	WG prime	For pub-lication?	freeze date	frozen
	Concept and definitions				
32.151	Telecommunication management; Integration Reference Point (IRP) Information Service (IS) template	S5	Yes	2004-12-16	yes
32.152	Telecommunication management; Integration Reference Point (IRP) Information Service (IS) Unified Modelling Language (UML) repertoire	S5	Yes	2004-12-16	yes
32.171	Telecommunication management; Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Requirements	S5	Yes	2004-12-16	yes
32.172	Telecommunication management; Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS)	S5	Yes	2004-12-16	yes
32.295	Telecommunication management; Charging management; Charging Data Record (CDR) transfer	S5	Yes	2004-12-16	yes
32.296	Telecommunication management; Charging management; Online Charging System (OCS): Applications and interfaces	S5	Yes	2004-12-16	yes
32.300	Telecommunication management; Configuration Management (CM); Name convention for Managed Objects	S5	Yes	2004-12-16	yes
32.301	Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): Requirements	S5	Yes	2004-12-16	yes
32.302	Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): Information Service (IS)	S5	Yes	2004-12-16	yes
32.303	Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.304	Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.311	Telecommunication management; Generic Integration Reference Point (IRP) management; Requirements	S5	Yes	2004-12-16	yes
32.312	Telecommunication management; Generic Integration Reference Point (IRP) management; Information Service (IS)	S5	Yes	2004-12-16	yes
32.313	Telecommunication management; Generic Integration Reference Point (IRP) management; Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.321	Telecommunication management; Test management Integration Reference Point (IRP): Requirements	S5	Yes	2004-12-16	yes
32.322	Telecommunication management; Test management Integration Reference Point (IRP): Information Service (IS)	S5	Yes	2004-12-16	yes
32.323	Telecommunication management; Test management Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.324	Telecommunication management; Test management Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.331	Telecommunication management; Notification Log (NL) Integration Reference Point (IRP): Requirements	S5	Yes	2004-12-16	yes
32.332	Telecommunication management; Notification Log (NL) (NL) Integration Reference Point (IRP): Information Service (IS)	S5	Yes	2004-12-16	yes
32.333	Telecommunication management; Notification Log (NL) Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.334	Telecommunication management; Notification Log (NL) Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.341	Telecommunication management; File Transfer (FT) Integration Reference Point (IRP): Requirements	S5	Yes	2004-12-16	yes
32.342	Telecommunication management; File Transfer (FT) Integration Reference Point (IRP): Information Service (IS)	S5	Yes	2004-12-16	yes
32.343	Telecommunication management; File Transfer (FT) Integration	S5	Yes	2004-12-16	yes

Number	Title	WG prime	For pub-lication?	freeze date	frozen
	Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)				
32.344	Telecommunication management; File Transfer (FT) Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.351	Telecommunication management; Communication Surveillance (CS) Integration Reference Point (IRP): Requirements	S5	Yes	2004-12-16	yes
32.352	Telecommunication management; Communication Surveillance (CS) Integration Reference Point (IRP): Information Service (IS)	S5	Yes	2004-12-16	yes
32.353	Telecommunication management; Communication Surveillance (CS) Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.354	Telecommunication management; Communication Surveillance (CS) Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.361	Telecommunication management; Entry Point (EP) Integration Reference Point (IRP): Requirements	S5	Yes	2004-12-16	yes
32.362	Telecommunication management; Entry Point (EP) Integration Reference Point (IRP): Information Service (IS)	S5	Yes	2004-12-16	yes
32.363	Telecommunication management; Entry Point (EP) Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.364	Telecommunication Management; Entry Point (EP) Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.371	Telecommunication management; Security Management concept and requirements	S5	Yes	2004-12-16	yes
32.372	Telecommunication management; Security Management Integration Reference Point (IRP): Information Service (IS)	S5	Yes	2004-12-16	yes
32.373	Telecommunication management; Security Management Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.374	Telecommunication management; Security Management Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.401	Telecommunication management; Performance Management (PM); Concept and requirements	S5	Yes	2004-12-16	yes
32.403	Telecommunication management; Performance Management (PM); Performance measurements - UMTS and combined UMTS/GSM	S5	Yes	2004-12-16	yes
32.411	Telecommunication management; Performance Management (PM) Integration Reference Point (IRP): Requirements	S5	Yes	2004-12-16	yes
32.412	Telecommunication management; Performance Management (PM) Integration Reference Point (IRP): Information Service (IS)	S5	Yes	2004-12-16	yes
32.413	Telecommunication management; Performance Management (PM) Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.414	Telecommunication management; Performance Management (PM) Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.600	Telecommunication management; Configuration Management (CM); Concept and high-level requirements	S5	Yes	2004-12-16	yes
32.601	Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP); Requirements	S5	Yes	2004-12-16	yes
32.602	Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP): Information Service (SS)	S5	Yes	2004-12-16	yes
32.603	Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.604	Telecommunication management; Configuration Management (CM);	S5	Yes	2004-12-16	yes

Number	Title	WG prime	For pub-lication?	freeze date	frozen
	Basic CM Integration Reference Point (IRP) Common Management Information Protocol (CMIP) Solution Set (SS)				
32.611	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Requirements	S5	Yes	2004-12-16	yes
32.612	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Information Service (IS)	S5	Yes	2004-12-16	yes
32.613	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.614	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.615	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): eXtensible Markup Language (XML) file format definition	S5	Yes	2004-12-16	yes
32.621	Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP); Requirements	S5	Yes	2004-12-16	yes
32.622	Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): Network Resource Model (NRM)	S5	Yes	2004-12-16	yes
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	2004-12-16	yes
32.624	Telecommunication management; Configuration Management (CM); Generic network resources: Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2004-12-16	yes
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	2004-12-16	yes
32.632	Telecommunication management; Configuration Management (CM); Core Network Resources Integration Reference Point (IRP): Network Resource Model (NRM)	S5	Yes	2004-12-16	yes
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	2004-12-16	yes
32.634	Telecommunication management; Configuration Management (CM); Core network resources Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2004-12-16	yes
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	2004-12-16	yes
32.651	Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP): Requirements	S5	Yes	2004-12-16	yes
32.652	Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP): Network Resource Model (NRM)	S5	Yes	2004-12-16	yes
32.653	Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.654	Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2004-12-16	yes
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	2004-12-16	yes
32.661	Telecommunication management; Configuration Management (CM);	S5	Yes	2004-12-16	yes

Number	Title	WG prime	For pub-lication?	freeze date	frozen
	Kernel CM; Requirements				
32.662	Telecommunication management; Configuration Management (CM); Kernel CM; Information service (IS)	S5	Yes	2004-12-16	yes
32.663	Telecommunication management; Configuration Management (CM); Kernel CM Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.664	Telecommunication management; Configuration Management (CM); Kernel CM Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.671	Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP): Requirements	S5	Yes	2004-12-16	yes
32.672	Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP): Information Service (IS)	S5	Yes	2004-12-16	yes
32.673	Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.674	Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.681	Telecommunication management; Inventory Management (IM) Integration Reference Point (IRP): Requirements	S5	Yes	2004-12-16	yes
32.682	Telecommunication management; Inventory Management (IM) Integration Reference Point (IRP); Information Service (IS)	S5	Yes	2004-12-16	yes
32.683	Telecommunication management; Inventory Management (IM) Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.684	Telecommunication management; Inventory Management (IM) Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes	2004-12-16	yes
32.690	Telecommunication management; Inventory Management (IM): Requirements	S5	Yes	2004-12-16	yes
32.691	Telecommunication management; Inventory Management (IM) network resources Integration Reference Point (IRP): Requirements	S5	Yes	2004-12-16	yes
32.692	Telecommunication management; Inventory Management (IM) network resources Integration Reference Point (IRP): Network Resource Model (NRM)	S5	Yes	2004-12-16	yes
32.803	Telecommunication management; Process guide; Use cases in Unified Modelling Language (UML)	S5	No	2004-12-16	yes
33.203	3G security; Access security for IP-based services	S3	Yes	2004-12-16	yes
33.210	3G security; Network Domain Security (NDS); IP network layer security	S3	Yes	2004-12-16	yes
33.246	3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)	S3	No	2004-12-16	yes
33.817	Feasibility study on (Universal) Subscriber Interface Module (U)SIM security reuse by peripheral devices on local interfaces	S3	No	2004-12-16	yes
34.131	Test specification for C-language binding for (U)SIM API	T3	Yes	2004-12-10	yes
34.902	Derivation of test tolerances for multi-cell Radio Resource Model (RRM) conformance tests	T1	Yes	2004-12-10	yes
41.031	Fraud Information Gathering System (FIGS); Service requirements; Stage 0	S3	Yes	2004-12-16	yes
41.033	Lawful Interception requirements for GSM	S3	Yes	2004-12-16	yes
41.101	Technical Specifications and Technical Reports for a GERAN-based 3GPP system	SP	Yes	2004-12-16	yes
42.033	Lawful Interception; Stage 1	S3	Yes	2004-12-16	yes
42.043	Support of Localised Service Area (SoLSA); Service description; Stage 1	S1	Yes	2004-12-16	yes
42.056	GSM Cordless Telephony System (CTS), Phase 1; Service	S1	Yes	2004-12-16	yes

Number	Title	WG prime	For pub-lication?	freeze date	frozen
	description; Stage 1				
42.068	Voice Group Call Service (VGCS); Stage 1	S1	Yes	2004-12-16	yes
42.069	Voice Broadcast Service (VBS); Stage 1	S1	Yes	2004-12-16	yes
43.005	Technical performance objectives	NP	Yes	2004-12-10	yes
43.010	GSM Public Land Mobile Network (PLMN) connection types	N3	Yes	2004-12-10	yes
43.013	Discontinuous Reception (DRX) in the GSM system	G1	Yes		
43.019	Subscriber Identity Module Application Programming Interface (SIM API) for Java Card; Stage 2	T3	Yes	2004-12-10	yes
43.020	Security-related network functions	S3	Yes	2004-12-16	yes
43.022	Functions related to Mobile Station (MS) in idle mode and group receive mode	G1	Yes		
43.026	Multiband operation of GSM / DCS 1800 by a single operator	G1	Yes		
43.030	Radio network planning aspects	G1	Yes		
43.033	Lawful Interception; Stage 2	S3	Yes	2004-12-16	yes
43.045	Technical Realization of Facsimile Group 3 Service - transparent	N3	Yes	2004-12-10	yes
43.050	Transmission Planning Aspects of the Speech Service in the GSM Public Land Mobile Network (PLMN) System	S4	Yes	2004-12-16	yes
43.051	GSM/EDGE Radio Access Network (GERAN) overall description; Stage 2	G1	Yes		
43.052	Lower layers of the GSM Cordless Telephony System (CTS) radio interface; Stage 2	G1	Yes		
43.055	Dual Transfer Mode (DTM); Stage 2	G1	Yes		
43.058	Characterisation, test methods and quality assessment for handsfree Mobile Stations (MSs)	S4	Yes	2004-12-16	yes
43.059	Functional stage 2 description of Location Services (LCS) in GERAN	G1	Yes		
43.064	General Packet Radio Service (GPRS); Overall description of the GPRS radio interface; Stage 2	G1	Yes		
43.068	Voice Group Call Service (VGCS); Stage 2	N1	Yes	2004-12-10	yes
43.069	Voice Broadcast service (VBS); Stage 2	N1	Yes	2004-12-10	yes
43.073	Support of Localised Service Area (SoLSA); Stage 2	N4	Yes	2004-12-10	yes
43.129	Packed-switched handover for GERAN A/Gb mode; Stage 2	G2	Yes		
43.130	Iur-g interface; Stage 2	G1	Yes		
43.246	Multimedia Broadcast/Multicast Service (MBMS) in the GERAN; Stage 2	G1	Yes		
43.901	Feasibility Study on generic access to A/Gb interface	G1	Yes		
44.001	Mobile Station - Base Station System (MS - BSS) Interface General Aspects and Principles	N1	Yes	2004-12-10	yes
44.003	Mobile Station - Base Station System (MS - BSS) Interface Channel Structures and Access Capabilities	G2	Yes		
44.004	Layer 1 - General Requirements	G2	Yes		
44.005	Data Link (DL) Layer General Aspects	G2	Yes		
44.006	Mobile Station - Base Stations System (MS - BSS) Interface Data Link (DL) Layer Specification	G2	Yes		
44.012	Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface	G2	Yes		
44.013	Performance Requirements on Mobile Radio Interface	N1	Yes	2004-12-10	yes
44.014	Individual equipment type requirements and interworking; Special conformance testing functions	G2	Yes		
44.018	Mobile radio interface layer 3 specification; Radio Resource Control (RRC) protocol	G2	Yes		
44.021	Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface	N3	Yes	2004-12-10	yes

Number	Title	WG prime	For pub-lication?	freeze date	frozen
44.031	Location Services (LCS); Mobile Station (MS) - Serving Mobile Location Centre (SMLC) Radio Resource LCS Protocol (RRLP)	G2	Yes		
44.035	Location Services (LCS); Broadcast network assistance for Enhanced Observed Time Difference (E-OTD) and Global Positioning System (GPS) positioning methods	G2	Yes		
44.056	GSM Cordless Telephony System (CTS), (Phase 1) CTS Radio Interface Layer 3 Specification	N1	Yes	2004-12-10	yes
44.057	GSM Cordless Telephony System (CTS), (Phase 1) CTS CTS supervising system Layer 3 Specification	N1	Yes	2004-12-10	yes
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		
44.064	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	N1	Yes	2004-12-10	yes
44.065	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCP)	N1	Yes	2004-12-10	yes
44.068	Group Call Control (GCC) Protocol	N1	Yes	2004-12-10	yes
44.069	Broadcast Call Control (BCC) protocol	N1	Yes	2004-12-10	yes
44.071	Location Services (LCS); Mobile radio interface layer 3 LCS specification	G2	Yes		
44.118	Mobile radio interface layer 3 specification, Radio Resource Control (RRC) protocol; Iu mode	G2	Yes		
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 Iu mode	G2	Yes		
44.901	External network assisted cell change (NACC)	G2	Yes		
44.933	Seamless support of streaming services in GERAN A/Gb mode	G2	Yes		
45.001	Physical layer on the radio path; General description	G1	Yes		
45.002	Multiplexing and multiple access on the radio path	G1	Yes		
45.003	Channel coding	G1	Yes		
45.004	Modulation	G1	Yes		
45.005	Radio transmission and reception	G1	Yes		
45.008	Radio subsystem link control	G1	Yes		
45.009	Link adaptation	G1	Yes		
45.010	Radio subsystem synchronization	G1	Yes		
45.015	Release independent Downlink Advanced Receiver Performance (DARP); Implementation guidelines	G1	Yes		
45.022	Radio link management in hierarchical networks	G1	Yes		
45.050	Background for RF Requirements	G1	Yes		
45.056	CTS-FP Radio Sub-system	G1	Yes		
45.811	Uplink - Time Difference Of Arrival (U-TDOA) in GSM and GPRS	G1	No		
45.902	Flexible Layer One (FLO)	G1	Yes		
45.903	Feasibility study on Single Antenna Interference Cancellation (SAIC) for GSM networks	G1	Yes		
46.001	Full Rate Speech Processing Functions	S4	Yes	2004-12-16	yes
46.002	Half Rate Speech Processing Functions	S4	Yes	2004-12-16	yes
46.006	Half-rate speech: ANSI-C code for GSM half-rate speech codec	S4	Yes	2004-12-16	yes
46.007	Half Rate Speech: Test Sequence for GSM Half Rate Speech Codec	S4	Yes	2004-12-16	yes
46.008	Half Rate Speech; Performance Characterization of the GSM Half Rate speech codec	S4	Yes	2004-12-16	yes
46.010	Full-rate speech transcoding	S4	Yes	2004-12-16	yes

Number	Title	WG prime	For pub-lication?	freeze date	frozen
46.011	Substitution and Muting of Lost Frames for Full Rate Speech Channels	S4	Yes	2004-12-16	yes
46.012	Comfort Noise Aspects for Full Rate Speech Traffic Channels	S4	Yes	2004-12-16	yes
46.020	Half Rate Speech Transcoding	S4	Yes	2004-12-16	yes
46.021	Half rate speech; Substitution and muting of lost frames for half rate speech traffic channels	S4	Yes	2004-12-16	yes
46.022	Comfort Noise Aspects for Half Rate Speech Traffic Channels	S4	Yes	2004-12-16	yes
46.031	Discontinuous Transmission (DTX) for Full Rate Speech Traffic Channels	S4	Yes	2004-12-16	yes
46.032	Voice Activity Detection (VAD)	S4	Yes	2004-12-16	yes
46.041	Discontinuous Transmission (DTX) for Half Rate Speech Traffic Channels	S4	Yes	2004-12-16	yes
46.042	Voice Activity Detection (VAD) for Half Rate Speech Traffic Channels	S4	Yes	2004-12-16	yes
46.051	GSM Enhanced full rate speech processing functions: General description	S4	Yes	2004-12-16	yes
46.053	ANSI-C code for the GSM Enhanced full rate speech codec	S4	Yes	2004-12-16	yes
46.054	Test sequences for the GSM Enhanced Full Rate (EFR)	S4	Yes	2004-12-16	yes
46.055	Performance characterisation of the GSM EFR Speech Codec	S4	Yes	2004-12-16	yes
46.060	Enhanced full rate speech transcoding	S4	Yes	2004-12-16	yes
46.061	Substitution and muting of lost frames for encanced full rate speech traffic channels	S4	Yes	2004-12-16	yes
46.062	Comfort noise aspects for Enhanced Full Rate (EFR) speech traffic channels	S4	Yes	2004-12-16	yes
46.076	Adaptive Multi-Rate (AMR) speech codec; Study phase report	S4	Yes	2004-12-16	yes
46.081	Discontinuous Transmission (DTX) for encanced full rate speech traffic channels	S4	Yes	2004-12-16	yes
46.082	Voice Activity Detection (VAD) for encanced full rate speech traffic channels	S4	Yes	2004-12-16	yes
46.085	Subjective tests on the interoperability of the HR/FR/EFR speech codecs; single, tandem and tandem free operation	S4	Yes	2004-12-16	yes
48.001	General Aspects on the BSS-MSC Interface	G2	Yes		
48.002	Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface - Interface Principles	G2	Yes		
48.004	Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface Layer 1 Specification	G2	Yes		
48.006	Signalling Transport Mechanism Specification for the Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface	G2	Yes		
48.008	Mobile Switching Centre - Base Station system (MSC-BSS) Interface Layer 3 Specification	G2	Yes		
48.014	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) interface; Gb Interface Layer 1	G2	Yes		
48.016	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) Interface; Network Service	G2	Yes		
48.018	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN); BSS GPRS Protocol	G2	Yes		
48.020	Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface	N3	Yes	2004-12-10	yes
48.031	Location Services LCS: Serving Mobile Location Centre - Serving Mobile Location Centre (SMLC - SMLC); SMLCPP specification	G2	Yes		
48.051	Base Station Controller - Base Tranceiver Station (BSC-BTS) Interface General Aspects	G2	Yes		
48.052	Base Station Controller - Base Tranceiver Station (BSC-BTS) Interface - Interface Principles	G2	Yes		
48.054	Base Station Controller - Base Transceiver Station (BSC - BTS) interface; Layer 1 structure of physical circuits	G2	Yes		
48.056	Base Station Controller - Base Transceiver Station (BSC - BTS) interface; Layer 2 specification	G2	Yes		

Number	Title	WG prime	For pub-lication?	freeze date	frozen
48.058	Base Station Controller - Base Transceiver Station (BCS-BTS) Interface Layer 3 Specification	G2	Yes		
48.060	In-band control of remote transcoders and rate adaptors for full rate traffic channels	G1	Yes		
48.061	In-band control of remote transcoders and rate adaptors for half rate traffic channels	G1	Yes		
48.071	Location Services (LCS); Serving Mobile Location Centre - Base Station System (SMLC-BSS) interface; Layer 3 specification	G2	Yes		
49.001	General network interworking scenarios	N4	Yes	2004-12-10	yes
49.008	Application of the Base Station System Application Part (BSSAP) on the E-Interface	N1	Yes	2004-12-10	yes
49.031	Location Services (LCS); Base Station System Application Part LCS Extension (BSSAP-LE)	G2	Yes		
50.099	GERAN project plan and open issues	GP	No		
51.010-1	Mobile Station (MS) conformance specification; Part 1: Conformance specification	G3new	Yes		
51.010-2	Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification	G3new	Yes		
51.010-3	Mobile Station (MS) conformance specification; Part 3: Layer3 (L3) Abstract Test Suite (ATS)	G3new	Yes		
51.010-5	Mobile Station (MS) conformance specification; Part 5: GERAN / UTRAN interaction Abstract Test Suite (ATS)	G3new	Yes		
51.021	Base Station System (BSS) equipment specification; Radio aspects	G1	Yes		
51.026	GSM Repeater Equipment Specification	G1	Yes		
52.008	Telecommunication management; GSM subscriber and equipment trace	S5	Yes	2004-12-16	yes
52.021	Network Management (NM) Procedures and messages on the A-bis interface	G1	Yes		
52.402	Telecommunication management; Performance Management (PM); Performance measurements - GSM	S5	Yes	2004-12-16	yes
55.205	Specification of the GSM-MILENAGE algorithms: An example algorithm set for the GSM Authentication and Key Generation Functions A3 and A8	S3	Yes	2004-12-16	yes
55.216	Specification of the A5/3 encryption algorithms for GSM and EDGE, and the GEA3 encryption algorithm for GPRS; Document 1: A5/3 and GEA3 specification	S3	Yes	2004-12-16	yes
55.217	Specification of the A5/3 encryption algorithms for GSM and EDGE, and the GEA3 encryption algorithm for GPRS; Document 2: Implementors' test data	S3	Yes	2004-12-16	yes
55.218	Specification of the A5/3 encryption algorithms for GSM and EDGE, and the GEA3 encryption algorithm for GPRS; Document 3: Design and conformance test data	S3	Yes	2004-12-16	yes
55.919	Specification of the A5/3 encryption algorithms for GSM and EDGE, and the GEA3 encryption algorithm for GPRS; Document 4: Design and evaluation report	S3	Yes	2004-12-16	yes

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 41.101 version 5.4.0
		SP-030235			Renumber from 41.103 to 41.101	
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	007		Corrections to list of specifications	5.8.0
2004-12	SP-26	SP-040880	009	1	Corrections to list of specifications	6.0.0

History

Document history		
V6.0.0	December 2004	Publication