

Source: **MCC**
<mailto:john.meredith@etsi.fr>

Title: **CR 002 rev 1 to 01.01 Release 1999: Correction to list of specifications**

Document for: **approval**

Agenda Item: **8.6**

The attached CR updates the specifications list according to the current (2001-06-20) status.

CHANGE REQUEST

⌘ **01.01 CR 002** ⌘ ev **1** ⌘ Current version: **8.1.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Correction to list of specs		
Source:	⌘ MCC		
Work item code:	⌘ TEI	Date:	⌘ 2001-06-20
Category:	⌘ F	Release:	⌘ R99
	<i>Use <u>one</u> of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use <u>one</u> of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change:	⌘ Update list of specs required for implementing GSM Release 1999		
Summary of change:	⌘ Adds newly identified specs, deletes abandoned ones, corrects titles		
Consequences if not approved:	⌘ FUD		

Clauses affected:	⌘ 6		
Other specs affected:	<input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	
Other comments:	⌘ The structure of the list of specs has been aligned with that of 21.101, 21.102, 21.103, ... and 41.102, 41.103 This makes it difficult to detect the technical changes to the list of specs; these are therefore summarized below: Specs added: 01.00 02.43 04.12 10.56 10.59 10.89 31.111 Specs deleted: 01.02 01.48 01.48 01.56 01.60 02.06		

02.07
02.40
02.63
03.01
03.04
03.43
03.47
03.49
03.70
03.79 (replaced by 23.079)
04.30
05.14
07.07 (replaced by 27.007)
07.08
09.03
09.04
09.05
09.06
09.09
09.12
09.14
11.10-2 (covered by 51.010-2, Release 4)
11.10-3 (covered by 51.010-3, Release 4)
11.10-4 (covered by 51.010-4, Release 4)
11.17
11.19
11.23
11.24
11.30
11.31
11.32
12.00
12.01
12.06
12.08
12.11
22.140
23.046
24.012

Regulatory test specifications removed (since now the responsibility of ETSI TC MSG).

13.01
13.01-1
13.01-2
13.02
13.11
13.21
13.34
13.55
13.56
13.60
13.67
13.68

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

6 Specifications and Reports

6.1 GSM Only

Number	Title
01.01	GSM Release 1999 Specifications
01.02	General Description of a GSM Public Land Mobile Network (PLMN)
01.04	Abbreviations and Acronyms
01.31	Fraud Information Gathering System (FIGS); Service requirements; Stage 0
01.33	Lawful Interception requirements for GSM
01.48	ISDN-based DECT/GSM interworking; Feasibility Study
01.56	GSM Cordless Telephony System (CTS) (Phase 1); CTS Authentication and Key Generation Algorithms Requirements
01.60	GPRS requirements
01.61	General Packet Radio Service (GPRS); GPRS ciphering algorithm requirements
02.06	Types of Mobile Stations (MS)
02.07	Mobile Station (MS) Features
02.09	Security aspects
02.17	Subscriber Identity Modules, Functional Characteristics
02.19	Subscriber Identity Module Application Programming Interface (SIM API); Service description; Stage 1
02.31	Fraud Information Gathering System (FIGS) Service description; Stage 1
02.32	Immediate Service Termination (IST); Service description; Stage 1
02.33	Lawful interception; Stage 1
02.40	Procedures for Call Progress Indications
02.48	Security mechanisms for the SIM Application Toolkit; Stage 1
02.53	Tandem Free Operation (TFO); Service description; Stage 1
02.56	GSM Cordless Telephony System (CTS), Phase 1; Service description; Stage 1
02.63	Packet Data on Signalling channels Service (PDS); Stage 1
02.68	Voice Group Call Service (VGCS); Stage 1
02.69	Voice Broadcast Service (VBS); Stage 1
02.76	Noise Suppression for the AMR
02.94	Follow Me Service description; Stage 1
02.95	Digital cellular telecommunications system (Phase 2+); Support of Private Numbering Plan (SPNP); Service description, Stage 1

- 03.01 — Network Functions
- 03.04 — Signalling requirements relating to routing of calls to mobile subscribers
- 03.05 — Technical performance objectives
- 03.10 — GSM Public Land Mobile Network (PLMN) Connection Types
- 03.13 — Discontinuous Reception (DRX) in the GSM System
- 03.19 — GSM API for SIM toolkit stage 2
- 03.20 — Security-related Network Functions
- 03.22 — Functions related to Mobile Station (MS) in idle mode
- 03.26 — Multiband operation of GSM/DCS 1800 by a single operator
- 03.30 — Radio Network Planning Aspects
- 03.31 — Fraud Information Gathering System (FIGS); Service description; Stage 2
- 03.33 — Lawful Interception; Stage 2
- 03.35 — Immediate Service Termination (IST); Stage 2
- 03.43 — Support of Videotext
- 03.44 — Support of Teletex in a GSM Public Land Mobile Network (PLMN)
- 03.45 — Technical realization of facsimile Group 3 service – transparent
- 03.46 — Technical realization of facsimile group 3 service – non-transparent
- 03.47 — Example Protocol Stacks for Interconnecting Service Centre(s) (SC) and Mobile Services Switching Centre(s) (MSC)
- 03.48 — Security Mechanisms for SIM Toolkit Application; Stage 2
- 03.49 — Example Protocol Stacks for Interconnecting Cell Broadcast Centre (CBC) and Base Station Controller (BSC)
- 03.50 — Transmission Planning Aspects of the Speech Service in the GSM Public Land Mobile Network (PLMN) System
- 03.52 — Lower layers of the GSM Cordless Telephony System (CTS) radio interface; Stage 2
- 03.53 — Tandem Free Operation (TFO); Service description; Stage 2
- 03.55 — Dual Transfer Mode (DTM); Stage 2
- 03.56 — GSM Cordless Telephony System (CTS), Phase 1; CTS Architecture Description; Stage 2
- 03.58 — Characterization, test methods and quality assessment for handsfree Mobile Stations (MSs)
- 03.63 — Packet Data on Signalling channels service (PDS) Service description; Stage 2
- 03.64 — Overall description of the GPRS radio interface; Stage 2
- 03.68 — Voice Group Call Service (VGCS); Stage 2
- 03.69 — Voice Broadcast service (VBS); Stage 2
- 03.70 — Routing of calls to/from Public Data Networks (PDN)
- 03.71 — Location Services (LCS); Stage 2
- 03.79 — Support of Optimal Routing phase 1; Stage 2

- 04.01 Mobile Station–Base Station System (MS–BSS) Interface General Aspects and Principles
- 04.03 Mobile Station–Base Station System (MS–BSS) Interface Channel Structures and Access Capabilities
- 04.04 Layer 1–General Requirements
- 04.05 Data Link (DL) Layer General Aspects
- 04.06 Mobile Station–Base Stations System (MS–BSS) Interface Data Link (DL) Layer Specification
- 04.08 Mobile radio interface layer 3 specification
- 04.13 Performance Requirements on Mobile Radio Interface
- 04.14 Individual equipment type requirements and interworking; Special conformance testing functions
- 04.18 Mobile radio interface layer 3 specification; Radio Resource Control Protocol
- 04.21 Rate Adaption on the Mobile Station–Base Station System (MS–BSS) Interface
- 04.30 Location Services (LCS); Mobile radio interface layer 3 supplementary services specification; Mobile Originating Location Request (MO-LR).
- 04.31 Location Services (LCS); Mobile Station (MS)–Serving Mobile Location Centre (SMLC); Radio Resource LCS Protocol (RRLP)
- 04.35 Location Services (LCS); Broadcast Network Assistance for Enhanced Observed Time Difference (E-OTD) and Global Positioning System (GPS) Positioning Methods
- 04.56 GSM Cordless Telephony System (CTS), (Phase 1) CTS Radio Interface Layer 3 Specification
- 04.57 GSM Cordless Telephony System (CTS), (Phase 1) CTS supervising system Layer 3 Specification
- 04.60 General Packet Radio Service (GPRS); Mobile Station (MS)–Base Station System (BSS) interface; Radio Link Control/ Medium Access Control (RLC/MAC) protocol
- 04.63 Packet Data on Signalling channels Service (PDS) Service Description, Stage 3
- 04.64 Mobile Station–Serving GPRS Support Node (MS–SGSN) Logical Link Control (LLC) Layer Specification
- 04.65 Mobile Station (MS)–Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCP)
- 04.68 Group Call Control (GCC) protocol
- 04.69 Broadcast Call Control (BCC) protocol
- 04.71 Location Services (LCS); Mobile radio interface layer 3 Location Services (LCS) specification
- 05.01 Physical Layer on the Radio Path (General Description)
- 05.02 Multiplexing and Multiple Access on the Radio Path
- 05.03 Channel Coding
- 05.04 Modulation
- 05.05 Radio Transmission and Reception
- 05.08 Radio Subsystem Link Control
- 05.09 Link Adaptation
- 05.10 Radio Subsystem Synchronization
- 05.14 Release independent frequency bands; Implementation guidelines

05.22	Radio link management in hierarchical networks
05.50	Background for RF Requirements
05.56	CTS-FP Radio Sub-system
06.01	Full Rate Speech Processing Functions
06.02	Half Rate Speech Processing Functions
06.06	Half Rate Speech; ANSI-C Code for GSM Half Rate Speech Codec
06.07	Half Rate Speech; Test Sequence for GSM Half Rate Speech Codec
06.08	Half Rate Speech; Performance Characterization of the GSM half rate speech codec
06.10	Full Rate Speech Transcoding
06.11	Substitution and Muting of Lost Frames for Full Rate Speech Channels
06.12	Comfort Noise Aspects for Full Rate Speech Traffic Channels
06.20	Half Rate Speech Transcoding
06.21	Half rate speech; Substitution and muting of lost frames for half rate speech traffic channels
06.22	Comfort Noise Aspects for Half Rate Speech Traffic Channels
06.31	Discontinuous Transmission (DTX) for Full Rate Speech Traffic Channels
06.32	Voice Activity Detection (VAD)
06.41	Discontinuous Transmission (DTX) for Half Rate Speech Traffic Channels
06.42	Voice Activity Detection (VAD) for Half Rate Speech Traffic Channels
06.51	Enhanced full rate speech processing functions: General description
06.53	ANSI-C code for the enhanced full rate speech codec
06.54	Test sequences for the GSM Enhanced Full Rate (EFR)
06.55	Performance characterization of the GSM EFR Speech Codec
06.60	Enhanced full rate speech transcoding
06.61	Substitution and muting of lost frames for enhanced full rate speech traffic channels
06.62	Comfort noise aspects for Enhanced Full Rate (EFR) speech traffic channels
06.76	Adaptive Multi-Rate (AMR) speech codec; Study phase report
06.77	Minimum Performance Requirements for Noise Suppressor Application to the AMR Speech Encoder
06.78	Results of the AMR noise suppression selection phase
06.81	Discontinuous Transmission (DTX) for enhanced full rate speech traffic channels
06.82	Voice Activity Detection (VAD) for enhanced full rate speech traffic channels
06.85	Subjective tests on the interoperability of the HR/FR/EFR speech codecs; single, tandem and tandem free operation
07.07	AT Command set for GSM Mobile Equipment (ME)
07.08	GSM Application Programming Interface
08.01	General Aspects on the BSS-MSC Interface

- 08.02 Base Station System – Mobile Services Switching Centre (BSS-MSC) Interface – Interface Principles
- 08.04 Base Station System – Mobile Services Switching Centre (BSS-MSC) Interface Layer 1 Specification
- 08.06 Signalling Transport Mechanism Specification for the Base Station System – Mobile Services Switching Centre (BSS-MSC) Interface
- 08.08 Mobile Switching Centre – Base Station system (MSC-BSS) Interface Layer 3 Specification
- 08.14 General Packet Radio Service (GPRS); Base Station System (BSS) – Serving GPRS Support Node (SGSN) interface; Gb Interface Layer 1
- 08.16 General Packet Radio Service (GPRS); Base Station System (BSS) – Serving GPRS Support Node (SGSN) Interface; Network Service
- 08.18 General Packet Radio Service (GPRS); Base Station System (BSS) – Serving GPRS Support Node (SGSN); BSS GPRS Protocol
- 08.20 Rate Adaptation on the BSS-MSC Interface
- 08.31 Location Services (LCS); Serving Mobile Location Centre (SMLC) – Serving Mobile Location Centre (SMLC); SMLC Peer Protocol (SMLCPP) Location Centre (SMLC); Radio Resource LCS Protocol (RRLP)
- 08.51 Base Station Controller – Base Transceiver Station (BSC-BTS) Interface General Aspects
- 08.52 Base Station Controller – Base Transceiver Station (BSC-BTS) Interface – Interface Principles
- 08.54 Base Station Controller – Base Transceiver Station (BSC-BTS) Interface Layer 1 Structure of Physical Circuits
- 08.56 Base Station Controller – Base Transceiver Station (BSC-BTS) Interface – Layer 2 Specification
- 08.58 Base Station Controller – Base Transceiver Station (BSC-BTS) Interface Layer 3 Specification
- 08.59 BSC-BTS O&M Signalling Transport
- 08.60 Inband Control of Remote Transcoders and Rate Adaptors for EFR/FR
- 08.61 Inband Control of Remote Transcoder and Rate Adaptors;(Half Rate)
- 08.62 Inband Tandem Free Operation (TFRO) of speech codecs, Service description, stage 3
- 08.71 Location services (LCS) SMLC-BSS interface L 3
- 09.01 General Network Interworking Scenarios
- 09.09 General Network Interworking scenarios
- 09.03 Signalling Requirements on Interworking between the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) and the Public Land Mobile Network (PLMN)
- 09.04 Interworking between the Public Land Mobile Network and the CSPDN
- 09.05 Interworking between PLMN and PAD access
- 09.06 Interworking between PLMN and a Packet Switched Public Data Network/Integrated Services digital Network (PSPDN/ISDN) for Support of Packet Switched Data Transmission Services
- 09.08 Application of the Base Station System Application Part (BSSAP) on the E-Interface
- 09.09 Detailed Signalling Interworking within the PLMN with the PSTN/ISDN
- 09.12 Application of ISUP Version 2 for the ISDN-PLMN (GSM) signalling
- 09.14 Application of ISUP Version 3 for the ISDN-PLMN Signalling

- 09.31 Location Services (LCS); Base Station System Application Part LCS Extension (BSSAP-LE)
- 09.90 Interworking between Phase 1 Infrastructure and Phase 2 Mobile Stations (MS)
- 09.91 Interworking Aspects of the SIM/ME Interface Between Phase 1 and Phase 2
- 11.10.1 Mobile station (MS) conformance specification; Part1: Conformance specification
- 11.10.2 Mobile Station (MS) Conformance Specification, Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification
- 11.10.3 Mobile Station (MS) Conformance Specification; Part 3 : Layer3 (L3) Abstract Test Suite (ATS)
- 11.10.4 Mobile Station (MS) Conformance Specification; Part 4: SIM Application Toolkit conformance Specification
- Note: The 11.10 series specifications do not contain tests for Release 1999. Such tests will be contained in the Release 4 specifications (51.010 series).
- 11.11 Specification of the Subscriber Identity Module – Mobile Equipment (SIM-ME) Interface
- 11.14 Phase 2+ SIM Application Tool kit
- 11.17 SIM test specification
- 11.19 CTS SIM Fixed Part
- 11.21 GSM Radio Aspects Base Station System Equipment Specification
- 11.23 GSM Signalling Aspects Base Station System equipment Specification
- 11.24 GSM transcoding and rate adaptation: Base station
- 11.26 GSM Repeater Equipment Specification
- 11.30 Mobile Services Switching Centre
- 11.31 Home Location Register specification
- 11.32 Visitor Location Register specification
- 12.00 Objectives and structure of GSM Public Land Mobile Network (PLMN) management
- 12.01 Common Aspects of Public Land Mobile Network (PLMN) Management
- 12.02 Subscriber, Mobile Equipment (ME) and Services Data Administration
- 12.03 Security Management
- 12.04 Performance Management and Measurements for a GSM Public Land Mobile Network (PLMN)
- 12.06 Network Configuration Management and Administration
- 12.08 Subscriber and Equipment trace
- 12.11 Fault management of the Base Station System (BSS)
- 12.71 Location Services (LCS); Location services management
- 13.01 Attachment requirements for Global System for Mobile communications (GSM) mobile stations; Access
- 13.01.1 Attachment requirements for Global System for Mobile communications (GSM) mobile stations; Access

13.01-2	Attachment requirements for mobile stations in the DCS 1800 band and additional GSM 900 band; Access
13.02	Attachment requirements for mobile stations in the DCS 1800 band and additional GSM 900 band; Access
13.11	Terminal essential requirements (RTTE)
13.34	Attachment requirements for Global System for Mobile communications (GSM); High Speed Circuit Switched Data (HSCSD) Multislot Mobile Stations; Access
13.55	Attachment requirements for Cordless Telephony System Fixed Part (CTS-FP); Access
13.56	Cordless Telephony System Mobile Stations (CTS-MS); Access
13.60	Attachment requirements for Global System for Mobile communications (GSM); General Packet Radio Service (GPRS); Mobile stations; Access
13.67	Attachment requirements for Global System for Mobile communications (GSM); Railways Band (R-GSM); Mobile Stations; Access
13.68	Attachment requirements for Global System for Mobile communications (GSM); Advanced Speech Call Items (GSM-ASCI) Mobile Stations; Access
13.21	BSS Radio aspects requirements (RTTE)

6.2 Common GSM and UMTS

Number	Title
21.978	Feasibility Technical Report – CAMEL Control of VoIP Services
22.001	Principles of Circuit Telecommunication Services Supported by a Public Land Mobile Network (PLMN)
22.002	Bearer Services Supported by a GSM PLMN
22.003	Circuit Teleservices supported by a PLMN
22.004	General on Supplementary Services
22.011	Service accessibility
22.016	International Mobile Equipment Identities (IMEI)
22.022	Personalisation of Mobile Equipment (ME); Mobile functionality specification
22.024	Description of Charge Advice Information (CAI)
22.030	Man-Machine Interface (MMI) of the Mobile Station (MS)
22.034	High Speed Circuit Switched Data (HSCSD); Stage 1
22.038	SIM application toolkit (SAT); Stage 1
22.041	Operator Determined Call Barring
22.042	Network Identity and Time Zone (NITZ), stage 1
22.043	Support of Localized Service Area (SoLSA); Stage 1
22.057	Mobile Station Application Execution Environment (MEExE); Stage 1
22.060	General Packet Radio Service (GPRS); Stage 1
22.066	Support of Mobile Number Portability (MNP); Stage 1

- 22.067 ——— enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 1
- 22.071 ——— Location Services (LCS); Stage 1 (T1P1)
- 22.072 ——— Call Deflection (CD); Stage 1
- 22.078 ——— CAMEL phase 3; Stage 1
- 22.079 ——— Support of Optimal routing; Stage 1
- 22.081 ——— Line Identification Supplementary Services; Stage 1
- 22.082 ——— Call Forwarding (CF) Supplementary Services; Stage 1
- 22.083 ——— Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1
- 22.084 ——— MultiParty (MPY) Supplementary Service; Stage 1
- 22.085 ——— Closed User Group (CUG) Supplementary Services; Stage 1
- 22.086 ——— Advice of Charge (AoC) Supplementary Services; Stage 1
- 22.087 ——— User-to-user signalling (UUS); Stage 1
- 22.088 ——— Call Barring (CB) Supplementary Services; Stage 1
- 22.090 ——— Unstructured Supplementary Service Data (USSD); Stage 1
- 22.091 ——— Explicit Call Transfer (ECT) Supplementary Service; Stage 1
- 22.093 ——— Call Completion to Busy Subscriber (CCBS); Stage 1
- 22.096 ——— Calling Name Presentation (CNAP); Stage 1 (T1P1)
- 22.097 ——— Multiple Subscriber Profile (MSP); Stage 1
- 22.115 ——— Service Aspects Charging and billing
- 22.121 ——— Provision of Services in UMTS – The Virtual Home Environment
- 22.129 ——— Handover Requirements between UMTS and GSM or other Radio Systems
- 22.140 ——— Service aspects; Stage 1; Multimedia Messaging Service
- 22.945 ——— Study of provision of fax service in GSM and UMTS
- 23.002 ——— Network Architecture
- 23.003 ——— Numbering, Addressing and Identification
- 23.007 ——— Restoration procedures
- 23.008 ——— organization of subscriber data
- 23.009 ——— Handover procedures
- 23.011 ——— Technical Realization of Supplementary Services – General Aspects
- 23.012 ——— Location management procedures
- 23.014 ——— Support of Dual Tone Multi Frequency (DTMF) signalling
- 23.015 ——— Technical realization of Operator Determined Barring (ODB)
- 23.016 ——— Subscriber data management; Stage 2
- 23.018 ——— Basic Call Handling – Technical realization
- 23.032 ——— Universal Geographical Area Description (GAD)

- 23.034 High Speed Circuit Switched Data (HSCSD); Stage 2
- 23.038 Alphabets & Language
- 23.039 Interface Protocols for the Connection of Short Message Service Centres (SMSCs) to Short Message Entities (SMEs)
- 23.040 Technical realization of SMS Point to Point
- 23.041 Technical Realization of Short Message Service Cell Broadcast (SMSCB)
- 23.042 Compression algorithm for SMS
- 23.046 Technical realization of facsimile Group 3 service non-transparent
- 23.054 Shared Interworking Functions; Stage 2
- 23.057 Mobile Station Application Execution Environment (MExE)
- 23.060 General Packet Radio Service (GPRS) Service description; Stage 2
- 23.066 Support of GSM Mobile Number Portability (MNP) stage 2
- 23.067 Enhanced Multi-Level Precedence and Pre-emption Service (EMLPP); Stage 2
- 23.072 Call Deflection Supplementary Service; Stage 2
- 23.073 Support of localized Service Area (SoLSA); Stage 2
- 23.078 Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 Stage 2
- 23.079 Support of Optical Routeing Phase 1; Stage 2
- 23.081 Line Identification Supplementary Services; Stage 2
- 23.082 Call Forwarding (CF) Supplementary Services; Stage 2
- 23.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 2
- 23.084 MultiParty (MPTY) Supplementary Service; Stage 2
- 23.085 Closed User Group (CUG) Supplementary Service; Stage 2
- 23.086 Advice of Charge (AoC) Supplementary Service; Stage 2
- 23.087 User-to-User Signalling (UUS); Stage 2
- 23.088 Call Barring (CB) Supplementary Service; Stage 2
- 23.090 Unstructured Supplementary Service Data (USSD); Stage 2
- 23.091 Explicit Call Transfer (ECT) Supplementary Service; Stage 2
- 23.093 Call Completion to Busy Subscriber (CCBS); Stage 2
- 23.094 Follow Me; Stage 2
- 23.096 Name Identification Supplementary Service; Stage 2
- 23.097 Multiple Subscriber Profile (MSP); Stage 2
- 23.108 Mobile Radio Interface Layer 3 specification Core Network Protocols; Stage 2
- 23.110 UMTS Access Stratum Services and Functions
- 23.116 Super Charger ; Stage 2
- 23.119 Gateway Location Register (GLR); Stage 2

- 23.121 Architecture Requirements for release 99
- 23.140 Multimedia Messaging Service (MMS)
- 23.908 Technical report on Pre-Paging
- 23.909 Technical report on the Gateway Location Register
- 23.911 Technical report on Out-of-band transcoder control
- 23.912 Technical report on Super-Charger
- 23.923 Combined GSM and Mobile IP mobility handling in UMTS IP CN
- 23.925 UMTS Core network based ATM transport
- 24.002 GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration
- 24.007 Mobile Radio Interface Signalling Layer 3 – General Aspects
- 24.008 Mobile Radio Interface Layer 3 specification; Core Network Protocols-Stage 3
- 24.010 Mobile Radio Interface Layer 3 – Supplementary Services Specification – General Aspects
- 24.011 Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface
- 24.012 Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface?
- 24.022 Radio Link Protocol (RLP) for Data and Telematic Services on the (MS-BSS) Interface and the Base Station System – Mobile services Switching Centre (BSS-MSC) Interface?
- 24.067 Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3
- 24.072 Call Deflection Supplementary Service; Stage 3
- 24.080 Mobile radio Layer 3 Supplementary Service specification – Formats and coding
- 24.081 Line Identification Supplementary Service; Stage 3
- 24.082 Call Forwarding Supplementary Service; Stage 3
- 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3
- 24.084 MultiParty (MPTY) Supplementary Service; Stage 3
- 24.085 Closed User Group (CUG) Supplementary Service; Stage 3
- 24.086 Advice of Charge (AoC) Supplementary Service; Stage 3
- 24.087 User-to-User Signalling (UUS); Stage 3
- 24.088 Call Barring (CB) Supplementary Service; Stage 3
- 24.090 Unstructured Supplementary Service Data (USSD); Stage 3
- 24.091 Explicit Call Transfer (ECT) Supplementary Service; Stage 3
- 24.093 Call Completion to Busy Subscriber (CCBS); Stage 3
- 24.091 Explicit Call Transfer (ECT) Supplementary Service; Stage 3
- 24.093 Call Completion to Busy Subscriber (CCBS); Stage 3
- 24.096 Name Identification Supplementary Service; Stage 3
- 27.001 General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)
- 27.002 Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities

- 27.003 Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities
- 27.005 Use of Data Terminal Equipment – Data Circuit terminating Equipment (DTE – DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)
- 27.007 AT command set for 3G User Equipment (UE)
- 27.010 Terminal Equipment to User Equipment (TE-UE) multiplexer protocol – User Equipment (UE)
- 27.060 GPRS Mobile Stations supporting GPRS
- 27.103 Wide Area Network Synchronization
- 29.002 Mobile Application Part (MAP)
- 29.007 General requirements on Interworking between the PLMN and the ISDN or PSTN
- 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)?
- 29.011 Signalling Interworking for Supplementary Services
- 29.013 Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols
- 29.016 Serving GPRS Support Node SGSN – Visitors Location Register (VLR); Gs Interface Network Service Specification
- 29.018 Serving GPRS Support Node SGSN – Visitors Location Register (VLR); Gs Interface Layer 3 Specification
- 29.060 GPRS Tunnelling protocol (GPT) across the Gn and Gp interface
- 29.061 General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet
- 29.078 CAMEL phase 3; Stage 3

Specifications in the range 01.xx to 13.xx are 'pure' GSM specs. Those in the range 21.xxx to 35.xxx are common to GSM and UMTS implementations.

Number	Title	WG prime
01.00	Working Procedures for SMG	SP
01.01	GSM Release 1999 Specifications	SP
01.04	Abbreviations and Acronyms	GP
01.31	Fraud Information Gathering System (FIGS); Service requirements; Stage 0	S3
01.33	Lawful Interception requirements for GSM	S3
01.61	General Packet Radio Service (GPRS); GPRS ciphering algorithm requirements	S3
02.09	Security Aspects	S3
02.17	Subscriber Identity Modules, Functional Characteristics	T3
02.31	Fraud Information Gathering System (FIGS) Service description; Stage 1	S3
02.32	Immediate Service Termination (IST); Service description; Stage 1	S3
02.33	Lawful Interception; Stage 1	S3
02.43	Support of Localised Service Area (SoLSA); Service description; Stage 1	S1
02.48	Security mechanisms for the SIM Application Toolkit; Stage 1	T3
02.53	Tandem Free Operation (TFO); Service description; Stage 1	S4
02.56	GSM Cordless Telephony System (CTS), Phase 1; Service description; Stage 1	S1
02.68	Voice Group Call Service (VGCS); Stage 1	S1
02.69	Voice Broadcast Service (VBS); Stage 1	S1
02.76	Noise Suppression for the AMR	S4
02.94	Follow Me Service description; Stage 1	S1
02.95	Support of Private Numbering Plan (SPNP); Service description; Stage 1	S1

03.05	<u>Technical performance objectives</u>	NP
03.10	<u>GSM Public Land Mobile Network (PLMN) Connection Types</u>	N3
03.13	<u>Discontinuous Reception (DRX) in the GSM System</u>	G1
03.19	<u>GSM API for SIM toolkit stage 2</u>	T3
03.20	<u>Security-related Network Functions</u>	S3
03.22	<u>Functions Related to Mobile Station (MS) in Idle Mode</u>	G1
03.26	<u>Multiband operation of GSM/DCS 1800 by a single operator</u>	G1
03.30	<u>Radio Network Planning Aspects</u>	GP
03.31	<u>Fraud Information Gathering System (FIGS); Service description; Stage 2</u>	S3
03.33	<u>Lawful Interception; Stage 2</u>	S3
03.35	<u>Immediate Service Termination (IST); Stage 2</u>	S3
03.45	<u>Technical Realization of Facsimile Group 3 Service - transparent</u>	N3
03.46	<u>Technical Realization of Facsimile Group 3 Service - non transparent</u>	N3
03.48	<u>Security Mechanisms for SIM Toolkit Application; Stage 2</u>	T3
03.50	<u>Transmission Planning Aspects of the Speech Service in the GSM Public Land Mobile Network (PLMN) System</u>	S4
03.52	<u>Lower layers of the GSM Cordless Telephony System (CTS) radio interface; Stage 2</u>	G1
03.53	<u>Tandem Free Operation (TFO); Service description; Stage 2</u>	S4
03.55	<u>Dual Transfer Mode (DTM); Stage 2</u>	G1
03.58	<u>Characterisation, test methods and quality assessment for handsfree Mobile Stations (MSs)</u>	S4
03.63	<u>Packet Data on Signalling channels service (PDS) Service description, Stage 2</u>	N1
03.64	<u>Overall description of the GPRS radio interface; Stage 2</u>	G1
03.68	<u>Voice Group Call Service (VGCS); Stage 2</u>	N1
03.69	<u>Voice Broadcast service (VBS); Stage 2</u>	N1
03.71	<u>Location services (LCS); Stage 2</u>	S2
04.01	<u>Mobile Station - Base Station System (MS - BSS) Interface General Aspects and Principles</u>	N1
04.03	<u>Mobile Station - Base Station System (MS - BSS) Interface Channel Structures and Access Capabilities</u>	G2
04.04	<u>Layer 1 - General Requirements</u>	G2
04.05	<u>Data Link (DL) Layer General Aspects</u>	G2
04.06	<u>Mobile Station - Base Stations System (MS - BSS) Interface Data Link (DL) Layer Specification</u>	G2
04.08	<u>Mobile radio interface layer 3 specification</u>	N1
04.12	<u>Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface</u>	G2
04.13	<u>Performance Requirements on Mobile Radio Interface</u>	N1
04.14	<u>Individual equipment type requirements and interworking; Special conformance testing functions</u>	G2
04.18	<u>Mobile radio interface layer 3 specification; Radio Resource Control Protocol</u>	G2
04.21	<u>Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface</u>	N3
04.31	<u>Location Services LCS RR LCS Protocol</u>	G2
04.35	<u>Location Services LCS Stage 3 E-OTD Enhanced Observed</u>	G2
04.56	<u>GSM Cordless Telephony System (CTS), (Phase 1) CTS Radio Interface Layer 3 Specification</u>	N1
04.57	<u>GSM Cordless Telephony System (CTS), (Phase 1) CTS CTS supervising system Layer 3 Specification</u>	N1
04.60	<u>General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/ Medium Access Control (RLC/MAC) protocol</u>	G2
04.63	<u>Packet Data on Signalling channels Service (PDS) Service Description, Stage 3</u>	N1
04.64	<u>Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification</u>	N1
04.65	<u>Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCCP)</u>	N1
04.68	<u>Group Call Control (GCC) Protocol</u>	N1
04.69	<u>Broadcast Call Control (BCC) protocol</u>	N1
04.71	<u>Location services (LCS) stage 3</u>	G2
05.01	<u>Physical Layer on the Radio Path (General Description)</u>	GP
05.02	<u>Multiplexing and Multiple Access on the Radio Path</u>	G1
05.03	<u>Channel coding</u>	G1
05.04	<u>Modulation</u>	G1
05.05	<u>Radio Transmission and Reception</u>	G1
05.08	<u>Radio Subsystem Link Control</u>	G1
05.09	<u>Link adaptation</u>	G1
05.10	<u>Radio subsystem synchronization</u>	G1
05.22	<u>Radio link management in hierarchical networks</u>	G1

05.50	<u>Background for RF Requirements</u>	G1
05.56	<u>CTS-FP Radio Sub-system</u>	G1
06.01	<u>Full Rate Speech Processing Functions</u>	S4
06.02	<u>Half Rate Speech Processing Functions</u>	S4
06.06	<u>Half Rate Speech: ANSI-C Code for GSM Half Rate Speech Codec</u>	S4
06.07	<u>Half Rate Speech: Test Sequence for GSM Half Rate Speech Codec</u>	S4
06.08	<u>Half Rate Speech: Performance Characterization of the GSM Half Rate speech codec</u>	S4
06.10	<u>Full Rate Speech Transcoding</u>	S4
06.11	<u>Substitution and Muting of Lost Frames for Full Rate Speech Channels</u>	S4
06.12	<u>Comfort Noise Aspects for Full Rate Speech Traffic Channels</u>	S4
06.20	<u>Half Rate Speech Transcoding</u>	S4
06.21	<u>Half rate speech: Substitution and muting of lost frames for half rate speech traffic channels</u>	S4
06.22	<u>Comfort Noise Aspects for Half Rate Speech Traffic Channels</u>	S4
06.31	<u>Discontinuous Transmission (DTX) for Full Rate Speech Traffic Channels</u>	S4
06.32	<u>Voice Activity Detection (VAD)</u>	S4
06.41	<u>Discontinuous Transmission (DTX) for Half Rate Speech Traffic Channels</u>	S4
06.42	<u>Voice Activity Detection (VAD) for Half Rate Speech Traffic Channels</u>	S4
06.51	<u>GSM Enhanced full rate speech processing functions: General description</u>	S4
06.53	<u>ANSI-C code for the GSM Enhanced full rate speech codec</u>	S4
06.54	<u>Test sequences for the GSM Enhanced Full Rate (EFR)</u>	S4
06.55	<u>Performance characterisation of the GSM EFR Speech Codec</u>	S4
06.60	<u>Enhanced full rate speech transcoding</u>	S4
06.61	<u>Substitution and muting of lost frames for enhanced full rate speech traffic channels</u>	S4
06.62	<u>Comfort noise aspects for Enhanced Full Rate (EFR) speech traffic channels</u>	S4
06.76	<u>Adaptive Multi-Rate (AMR) speech codec: Study phase report</u>	S4
06.77	<u>Minimum Performance Requirements for Noise Suppressor Application to the AMR Speech Encoder</u>	S4
06.78	<u>Results of the AMR noise suppression selection phase</u>	S4
06.81	<u>Discontinuous Transmission (DTX) for enhanced full rate speech traffic channels</u>	S4
06.82	<u>Voice Activity Detection (VAD) for enhanced full rate speech traffic channels</u>	S4
06.85	<u>Subjective tests on the interoperability of the HR/FR/EFR speech codecs: single, tandem and tandem free operation</u>	S4
08.01	<u>General Aspects on the BSS-MSC Interface</u>	G2
08.02	<u>Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface - Interface Principles</u>	G2
08.04	<u>Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface Layer 1 Specification</u>	G2
08.06	<u>Signalling Transport Mechanism Specification for the Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface</u>	G2
08.08	<u>Mobile Switching Centre - Base Station system (MSC-BSS) Interface Layer 3 Specification</u>	G2
08.14	<u>General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) interface; Gb Interface Layer 1</u>	G2
08.16	<u>General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) Interface; Network Service</u>	G2
08.18	<u>General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN); BSS GPRS Protocol</u>	G2
08.20	<u>Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface</u>	N3
08.31	<u>Location Services LCS: Serving Mobile Location Centre - Serving Mobile Location Centre (SMLC - SMLC); SMLCPP specification</u>	G2
08.51	<u>Base Station Controller - Base Transceiver Station (BSC-BTS) Interface General Aspects</u>	G2
08.52	<u>Base Station Controller - Base Transceiver Station (BSC-BTS) Interface - Interface Principles</u>	G2
08.54	<u>BSC-BTS : Layer 1 Structure of Physical Circuits</u>	G2
08.56	<u>BSC-BTS Layer 2 Specification</u>	G2
08.58	<u>Base Station Controller - Base Transceiver Station (BSC-BTS) Interface Layer 3 Specification</u>	G2
08.60	<u>Inband Control of Remote Transcoders and Rate Adaptors for EFR/FR</u>	G2
08.61	<u>Inband Control of Remote Transcoder and Rate Adaptors:(Half Rate)</u>	G2
08.62	<u>Inband Tandem Free Operation (TFO) of Speech Codecs: Service Description: Stage 3</u>	S4
08.71	<u>Location services (LCS) SMLC-BSS interface L 3</u>	G2
09.01	<u>General Network Interworking Scenarios</u>	N4
09.08	<u>Application of the Base Station System Application Part (BSSAP) on the E-Interface</u>	N1
09.31	<u>Location Services LCS Extension (BSSAP-LE)</u>	G2
10.56	<u>Project scheduling and open issues: GSM Cordless Telephony System CTS, Phase 1</u>	S2

10.59	Project scheduling and open issues for EDGE	G1
10.89	GSM to other Systems Handover and Cell Selection/Reselection; Project scheduling and open issues;	GP
11.10-1	Mobile station (MS) conformance specification; Part1: Conformance specification	G4
11.11	Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) Interface	T3
11.14	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	T3
11.21	GSM Radio Aspects Base Station System Equipment Specification	G3
11.26	GSM Repeater Equipment Specification	G3
12.03	Security Management	S5
12.04	Performance Management and Measurements for a GSM Public Land Mobile Network (PLMN)	S5
12.71	Location Services (LCS); Location services management	S5
21.978	Feasibility Technical Report – CAMEL Control of VoIP Services	N2
22.001	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)	S1
22.002	Circuit Bearer Services Supported by a PLMN	S1
22.003	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	S1
22.004	General on Supplementary Services	S1
22.011	Service accessibility	S1
22.016	International Mobile Equipment Identities (IMEI)	S1
22.022	Personalisation of GSM ME Mobile functionality specification; Stage 1	S3
22.024	Description of Charge Advice Information (CAI)	S1
22.030	Man-Machine Interface (MMI) of the Mobile Station (MS)	S1
22.034	High Speed Circuit Switched Data (HSCSD); Stage 1	S1
22.038	SIM application toolkit (SAT); Stage 1	S1
22.041	Operator Determined Call Barring	S1
22.042	Network Identity and Time Zone (NITZ), stage 1	S1
22.043	Support of Localised Service Area (SoLSA); Stage 1	S1
22.057	Mobile Station Application Execution Environment (MExE); Stage 1	S1
22.060	General Packet Radio Service (GPRS); Stage 1	S1
22.066	Support of Mobile Number Portability (MNP); Stage 1	S1
22.067	enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 1	S1
22.071	Location Services (LCS); Stage 1	S1
22.072	Call Deflection (CD); Stage 1	S1
22.078	CAMEL; Stage 1	S1
22.079	Support of Optimal Routing; Stage 1	S1
22.081	Line Identification Supplementary Services; Stage 1	S1
22.082	Call Forwarding (CF) Supplementary Services; Stage 1	S1
22.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1	S1
22.084	MultiParty (MPTY) Supplementary Service; Stage 1	S1
22.085	Closed User Group (CUG) Supplementary Services; Stage 1	S1
22.086	Advice of Charge (AoC) Supplementary Services; Stage 1	S1
22.087	User-to-user signalling (UUS); Stage 1	S1
22.088	Call Barring (CB) Supplementary Services; Stage 1	S1
22.090	Unstructured Supplementary Service Data (USSD); Stage 1	S1
22.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 1	S1
22.093	Call Completion to Busy Subscriber (CCBS); Stage 1	S1
22.094	Follow Me Stage 1	S1
22.096	Calling Name Presentation (CNAP); Stage 1	S1
22.097	Multiple Subscriber Profile (MSP); Stage 1	S1
22.115	Service Aspects Charging and billing	S1
22.121	Provision of Services in UMTS - The Virtual Home Environment; Stage 1	S1
22.129	Handover Requirements between UMTS and GSM or other Radio Systems	S1
22.945	Study of provision of fax service in GSM and UMTS	T2
23.002	Network Architecture	S2
23.003	Numbering, Addressing and Identification	N4
23.007	Restoration procedures	N4
23.008	Organisation of subscriber data	N4
23.009	Handover procedures	N1

23.011	Technical Realization of Supplementary Services - General Aspects	N4
23.012	Location management procedures	N4
23.014	Support of Dual Tone Multi Frequency (DTMF) signalling	N1
23.015	Technical realisation of Operator Determined Barring (ODB)	N4
23.016	Subscriber data management; Stage 2	N4
23.018	Basic Call Handling - Technical realization	N4
23.032	Universal Geographical Area Description (GAD)	S2
23.034	High Speed Circuit Switched Data (HSCSD); Stage 2	N1
23.038	Alphabets & Language	T2
23.039	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	T2
23.040	Technical realisation of Short Message Service	T2
23.041	Technical Realization of Cell Broadcast Service	T2
23.042	Compression algorithm for SMS	T2
23.054	Shared Interworking Functions; Stage 2	N3
23.057	Mobile Execution Environment (MEEx)	T2
23.060	General Packet Radio Service (GPRS) Service description; Stage 2	S2
23.066	Support of GSM Mobile Number Portability (MNP) stage 2	N4
23.067	Enhanced Multi-Level Precedence and Preemption Service (EMLPP); Stage 2	N4
23.072	Call Deflection Supplementary Service; Stage 2	N4
23.073	Support of Localised Service Area (SoLSA); Stage 2	N4
23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2
23.079	Support of Optimal Routeing - Phase 1; Stage 2	N4
23.081	Line Identification Supplementary Services; Stage 2	N4
23.082	Call Forwarding (CF) Supplementary Services; Stage 2	N4
23.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 2	N4
23.084	MultiParty (MPTY) Supplementary Service; Stage 2	N4
23.085	Closed User Group (CUG) Supplementary Service; Stage 2	N4
23.086	Advice of Charge (AoC) Supplementary Service; Stage 2	N4
23.087	User-to-User Signalling (UUS); Stage 2	N4
23.088	Call Barring (CB) Supplementary Service; Stage 2	N4
23.090	Unstructured Supplementary Service Data (USSD); Stage 2	N4
23.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 2	N4
23.093	Call Completion to Busy Subscriber (CCBS); Stage 2	N4
23.094	Follow Me Stage 2	N4
23.096	Name Identification Supplementary Service; Stage 2	N4
23.097	Multiple Subscriber Profile (MSP); Stage 2	N4
23.108	Mobile Radio Interface Layer 3 specification Core Network Protocols stage 2 (structured procedures)	N1
23.110	UMTS Access Stratum Services and Functions	S2
23.116	Super-Charger technical realization; Stage 2	N4
23.119	Gateway Location Register (GLR); Stage2	N4
23.121	Architecture Requirements for release 99	S2
23.140	Multimedia Messaging Service (MMS)	T2
23.908	Technical report on Pre-Paging	N4
23.909	Technical report on the Gateway Location Register	N4
23.911	Technical report on Out-of-band transcoder control	N4
23.912	Technical report on Super-Charger	N4
23.923	Combined GSM and Mobile IP mobility handling in UMTS IP CN	S2
23.925	UMTS Core network based ATM transport	S2
24.002	GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration	N1
24.007	Mobile Radio Interface Signalling Layer 3 - General Aspects	N1
24.008	Mobile Radio Interface Layer 3 specification; Core Network Protocols; Stage 3	N1
24.010	Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects	N4
24.011	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	N1
24.022	Radio Link Protocol (RLP) for Data and Telematic Services on the (MS-BSS) Interface and the Base Station System - Mobile-services Switching Centre (BSS-MSC) Interface	N3
24.067	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3	N4

24.072	Call Deflection Supplementary Service; Stage 3	N4
24.080	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	N4
24.081	Line Identification Supplementary Service; Stage 3	N4
24.082	Call Forwarding Supplementary Service; Stage 3	N4
24.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3	N4
24.084	MultiParty (MPTY) Supplementary Service; Stage 3	N4
24.085	Closed User Group (CUG) Supplementary Service; Stage 3	N4
24.086	Advice of Charge (AoC) Supplementary Service; Stage 3	N4
24.087	User-to-User Signalling (UUS); Stage 3	N4
24.088	Call Barring (CB) Supplementary Service; Stage 3	N4
24.090	Unstructured Supplementary Service Data (USSD); Stage 3	N4
24.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 3	N4
24.093	Call Completion to Busy Subscriber (CCBS); Stage 3	N4
24.096	Name Identification Supplementary Service; Stage 3	N4
27.001	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	N3
27.002	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	N3
27.003	Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities	N3
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
27.007	AT command set for 3G User Equipment (UE)	T2
27.010	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol User Equipment (UE)	T2
27.060	GPRS Mobile Stations supporting GPRS	N3
27.103	Wide Area Network Synchronisation	T2
29.002	Mobile Application Part (MAP)	N4
29.007	General requirements on Interworking between the PLMN and the ISDN or PSTN	N3
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
29.011	Signalling Interworking for Supplementary Services	N4
29.013	Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols	N4
29.016	Serving GPRS Support Node SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification	N1
29.018	Serving GPRS Support Node SGSN - Visitors Location Register (VLR); Gs Interface Layer 3 Specification	N1
29.060	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	N4
29.061	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	N3
29.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2
31.111	USIM Application Toolkit (USAT)	T3

Note: [11.10-1](#) exists as a Release 1999 specification, but was closed at meeting number 32 of ETSI TC SMG (June 2000). Its contents are thus out of date, and it cannot be reliably used for conformance testing. In fact, the Release 1999 conformance specifications are contained in the corresponding Release 4 specifications, [51.010-1](#) to [-4](#).