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Technical Specification

Digital cellular telecommunications system (Phase 2+); Technical Specifications and Technical Reports for a GERAN-based 3GPP system (3GPP TS 01.01 version 8.12.0 Release 1999)



Reference RTS/TSGS-000101v8c0

> Keywords GSM

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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 <u>http://webapp.etsi.org/key/queryform.asp</u>.

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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 GSM Release 1999.

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] GSM 01.04: "Abbreviations and acronyms".
- [2] 3GPP TS 51.010-1 (version 4, Release 4): "Mobile Station (MS) conformance specification; Part 1: Conformance specification ".
- [3] 3GPP TS 51.010-2 (version 4, Release 4): "Mobile station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification".
- [4] 3GPP TS 51.010-3 (version 4, Release 4): "Mobile station (MS) conformance specification; Part 3: Layer3 (L3) Abstract Test Suite (ATS)".
- [5] 3GPP TS 51.010-4 (version 4, Release 4): "Mobile Station (MS) Conformance Specification; Part 4: SIM Application Toolkit conformance specification".

Note: The above specification was not available at the time of issue of the present document.

3 Abbreviations

For the purposes of the present document, the terms and definitions given in GSM 01.04 apply.

4 General

GSM Release 1999 consists of GSM-only specifications and the GSM Core Network specifications developed for both GSM Release 1999 and Release 1999 of the 3rd Generation mobile system.

GSM Release 1999 also includes many enhanced features developed within the 3rd Generation Partnership Project.

The present document identifies the GSM system set of specifications required to implement GSM Release 1999.

4.1 Specification and report numbering

Specifications for GSM Release-1999-only can be identified by the "**ab.de''** numbering scheme.

Specifications for both GSM Release 1999 and Release 1999 of the 3rd Generation mobile system are identified by the "**ab.cde''** numbering scheme.

NOTE: A "c" digit equal to zero indicates a GSM heritage of a specification.

4.2 Specification series

In general the Specification series are identified as follows:

4.2.1 01 and 21-series

Requirements specifications

These specifications are often transient and contain requirements towards other specifications. They may become obsolete when technical solutions have been fully specified; they could then, e.g., be replaced by reports describing the performance of the system, they could be deleted without replacement or be kept for historical reasons but turned into background material. When found necessary and appropriate, the transient or permanent nature of a requirement specification may be expressed in its scope.

4.2.2 02 and 22-series

Service aspects

Specifications in this series specify services, service features, building blocks or platforms for services (a service feature or service building block may provide certain generic functionality for the composition of a service, including the control by the user; a platform may comprise one or more network elements, e.g. UIM, mobile terminal, auxiliary system to the core network etc.); stage 1 specifications that are felt appropriate belong into this series; reports defining services which can be realized by generic building blocks etc. also belong into this series.

4.2.3 03 and 23-series

Technical realization

This series mainly contains stage 2 specifications (or specifications of a similar nature describing interworking over several interfaces, the behaviour in non-exceptional cases, etc.).

4.2.4 04 and 24-series

Signalling protocols (UE-CN)

This series contains the detailed and bit exact stage 3 specifications of protocols between MS/UE and the core network.

4.2.5 05 series

GSM Radio aspects

4.2.6 06 series

Codecs

This series defines speech codecs and other codecs for GSM.

4.2.7 07 and 27-series

Data

This series defines the functions necessary to support data applications at the user equipment side.

4.2.8 08 and 28-series

Signalling protocols (RSS - network part)

This series contains the detailed and bit exact stage 3 specifications of protocols relevant for interfaces internal to the Radio Access Network and between this and the Core Network.

4.2.9 09 and 29-series

Signalling protocols (NSS)

This series contains the detailed and bit exact stage 3 specifications of protocols within the Core Network.

4.2.10 11 series

SIM and conformance test

This series specifies the Subscriber Identity Module (SIM) and the interfaces between SIM and other entities. and the conformance test specifications for GSM.

4.2.11 12 series

Operation and maintenance

This series defines the application of TMN for GSM and other functions for operation, administration and maintenance of a GSM network.

4.2.12 13 series

Access requirements

This series contains Access requirement specifications for GSM.

5 Content of GSM Release 1999

5.1 GSM-only Work Areas

| WI Title |
|---|
| BSS co-ordination of Radio Resource allocation for class A GPRS services - GSM Radio |
| Access |
| Enhanced Data rates for GSM Evolution (EDGE) - BSS |
| General Packet Radio Service Phase 2 (GPRS) - radio part |
| GSM on 400 MHz Frequency Band |
| BSS co-ordination of Core Network Resource allocation for class A GPRS services -GSM- |
| UMTS Core Network |

5.2 Common GSM/3G Work Areas

5.2.1 Work areas related to services

| WI Title |
|---|
| Advanced Addressing |
| Automatic Establishment of Roaming Relations |
| CAMEL Phase 3 |
| Follow Me |
| GSM Mobile Number Portability EURO MNP |
| Service Continuity and Provision of VHE via GSM/UMTS |
| Virtual Home Environment |
| Unstructured Supplementary Service Data (USSD) enhancements |

5.2.2 Work areas related to the system architecture

| WI Title | |
|--|--|
| Enhanced QoS Support in GPRS | |
| Location Services (LCS) for R99 | |
| Support of non-realtime Multimedia Messaging Service | |

5.2.3 Work areas related to security

| WI Title |
|---|
| Fraud Information Gathering System applied to GPRS |
| Immediate Service Termination (IST) : CAMEL free solution |
| SS7 Security |

5.2.4 Work areas related to codecs

| WI Title |
|---|
| Codec for Low Bitrate Multimedia Telephony Service |
| Mandatory Speech Codec for Narrowband Telephony Service |
| AMR - Adaptive Multi-Rate codec (GSM 10.70) |
| QoS for Speech and Multimedia Codec |
| Tandem free operation in 3G systems and between 2G and 3G systems |

5.2.5 Work areas related to network management

| WI Title |
|--|
| Charging and Billing for GPRS – Advice of Charge |
| Charging and Billing for GPRS – Hot Billing |
| Charging and Billing for GPRS – Pre-Paid |

5.2.6 Work areas related to the core network specification

Concerning N1 (layer MM/CM/SM)

| WI Title |
|--|
| Pre-paging |
| Turbo-Charger: Feasibility Study |
| Unstructured Supplementary Service Data (USSD) enhancements |
| General Packet Radio Service Phase 2 (GPRS) - network part |
| Tandem Free Operation of speech codecs in Mobile-to-Mobile Calls (MMCs) in band |
| (including AMR) |
| Tandem Free Operation of speech codecs in Mobile-to-Mobile Calls (MMCs) : out-band |
| Access to ISPs and Intranets in GPRS Phase 2 – Separation of GPRS Bearer |
| Establishment and ISP Service Environment Setup |

Concerning N2 (Camel)

None

Concerning N3 (Interworking with external networks)

| | WI Title |
|---------------------------------------|--------------|
| Enhanced Data rates for GSM Evolution | (EDGE) - NSS |
| | |

5.2.7 Work areas related to MS testing

WI Title

MS Protocol/RF/EMC conformance specification

5.2.8 Work areas related to data

| WI Title |
|---|
| SMS Advanced Cell Broadcast |
| SMS Cell Broadcast |
| Messaging (Multimedia Messaging Service); Stage 2/3 |
| Messaging (Short Message Service (SMS); Stage 2/3 |
| Terminal interfaces (Alternatives to AT commands) |
| Access to ISPs and Intranets in GPRS Phase 2 – Wireless/Remote Access to LANs |
| Connecting an octet stream to a port on an Internet host |
| Mobile Station Execution Environment (MExE) |
| Modem and ISDN interworking for GPRS |
| Study on provision of facsimile services in GSM and UMTS |
| Unstructured octet stream GPRS PDP Type |
| Access to ISPs and Intranets in GPRS Phase 2 – Separation of GPRS Bearer |
| Establishment and ISP Service Environment Setup |
| Support of non-realtime Multimedia Messaging Service |

5.2.9 Work areas related to the User Card

| WI Title |
|---|
| Specification of administrative commands and functions for IC cards |
| WAP WAE User Agent / SIM toolkit interworking |
| GSM-API for SIM-Toolkit |
| Specification of a bearer independent protocol for SAT applications to exchange data over |
| the GSM network |
| SIM toolkit test specification |
| Generic Logical and Physical specification for IC card and terminal interface |
| Specification of administrative commands and functions for IC cards |

5.2.10 Work areas related to the access network

Concerning the testing of the BSS

None

Concerning all the other groups

None

5.2.11 Work areas handled by other groups

| WI Title |
|--|
| Location Services (LCS) |
| EDGE Compact |
| support for EGPRS in ANSI-136 networks |

5.3 Release 99 work areas impacting other systems

None

6 Specifications and Reports

Specifications in the range 01.xx to 12.xx are 'pure' GSM specs - that is, those only required to build systems which are based on 3GPP specifications and which use a GSM/EDGE Radio Access Network (GERAN). Specifications in the range 21.xxx to 35.xxx are common to systems which are based on 3GPP specifications, and which use either a GSM/EDGE radio access network or a UTRA Radio Access Network (UTRAN) (or both).

| Number | Title | WG prime | For publication? Yes | |
|--------|---|-------------|-------------------------|--|
| 01.01 | Technical Specifications and Technical Reports for a GERAN-based 3GPP system | SP | | |
| 01.04 | Abbreviations and acronyms | GP | Yes | |
| 01.31 | Fraud Information Gathering System (FIGS); Service requirements; Stage 0 | S3 | Yes | |
| 01.33 | Lawful Interception requirements for GSM | S3 | Yes | |
| 01.61 | General Packet Radio Service (GPRS); GPRS ciphering algorithm requirements | S3 | Yes | |
| 02.09 | Security aspects | S3 | Yes | |
| 02.17 | Subscriber Identity Module (SIM); Functional characteristics | Т3 | Yes | |
| 02.19 | Subscriber Identity Module Application Programming Interface (SIM API); Stage 1 | Т3 | Yes | |
| 02.33 | Lawful Interception (LI); Stage 1 | S3 | Yes | |
| 02.43 | Support of Localised Service Area (SoLSA); Service description; Stage 1 | S1 | Yes | |
| 02.48 | Security mechanisms for the SIM Application Toolkit; Stage 1 | Т3 | Yes | |
| 02.53 | Tandem Free Operation (TFO); Service description; Stage 1 | S4 | Yes | |
| 02.56 | GSM Cordless Telephony System (CTS), Phase 1; Service description; Stage 1 | S1 | Yes | |
| 02.68 | Voice Group Call Service (VGCS); Stage 1 | S1 | Yes | |
| 02.69 | Voice Broadcast Service (VBS); Stage 1 | S1 | Yes | |
| 02.76 | Noise Suppression for the AMR | S4 | Yes | |
| 02.95 | Support of Private Numbering Plan (SPNP); Service description; Stage 1 | S1 | Yes | |
| 03.05 | Technical performance objectives | NP | Yes | |
| 03.10 | GSM Public Land Mobile Network (PLMN) Connection Types | N3 | Yes | |
| 03.13 | Discontinuous Reception (DRX) in the GSM System | G1 | Yes | |
| 03.19 | Subscriber Identity Module Application Programming Interface (SIM API) for Java Card | Т3 | Yes | |
| 03.20 | Security-related Network Functions | S3 | Yes | |
| 03.22 | Functions related to Mobile Station (MS) in idle mode and group receive mode | G1 | Yes | |
| 03.26 | Multiband operation of GSM/DCS 1800 by a single operator | G1 | Yes | |
| 03.30 | Radio Network Planning Aspects | GP | Yes | |
| 03.33 | Lawful Interception; Stage 2 | S3 | Yes | |
| 03.45 | Technical Realization of Facsimile Group 3 Service - transparent | N3 | Yes | |
| 03.46 | Technical Realization of Facsimile Group 3 Service - non transparent | N3 | Yes | |
| 03.48 | Security mechanisms for SIM application toolkit; Stage 2 | Т3 | Yes | |
| 03.50 | Transmission Planning Aspects of the Speech Service in the GSM Public Land Mobile Network (PLMN) System | S4 | Yes | |
| 03.52 | Lower layers of the GSM Cordless Telephony System (CTS) radio interface; Stage 2 | G1 | Yes | |
| 03.53 | Tandem Free Operation (TFO); Service | S4 | Yes | |

| Number | Title | WG prime | For publication? | |
|--------|---|-------------|------------------|--|
| | description; Stage 2 | - | | |
| 03.55 | Dual Transfer Mode (DTM); Stage 2 | G1 | Yes | |
| 03.58 | Characterisation, test methods and quality assessment for handsfree Mobile Stations (MSs) | S4 | Yes | |
| 03.64 | General Packet Radio Service (GPRS); Overall description of the GPRS radio interface; Stage 2 | G1 | Yes | |
| 03.68 | Voice Group Call Service (VGCS); Stage 2 | N1 | Yes | |
| 03.69 | Voice Broadcast service (VBS); Stage 2 | N1 | Yes | |
| 03.71 | Location Services (LCS); Functional description; Stage 2 | S2 | Yes | |
| 03.73 | Support of Localised Service Area (SoLSA); Stage 2 | N4 | Yes | |
| 04.01 | Mobile Station - Base Station System (MS - BSS) Interface General Aspects and Principles | N1 | Yes | |
| 04.03 | Mobile Station - Base Station System (MS - BSS) Interface Channel Structures and Access Capabilities | G2 | Yes | |
| 04.04 | Layer 1 - General Requirements | G2 | Yes | |
| 04.05 | Data Link (DL) Layer General Aspects | G2 | Yes | |
| 04.06 | Mobile Station - Base Stations System (MS - BSS) Interface Data Link (DL) Layer Specification | G2 | Yes | |
| 04.08 | Mobile radio interface layer 3 specification | N1 | Yes | |
| 04.12 | Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface | G2 | Yes | |
| 04.13 | Performance Requirements on Mobile Radio Interface | N1 | Yes | |
| 04.14 | Individual equipment type requirements and interworking; Special conformance testing functions | G2 | Yes | |
| 04.18 | Mobile radio interface layer 3 specification; Radio Resource Control (RRC) protocol | G2 | Yes | |
| 04.21 | Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface | N3 | Yes | |
| 04.31 | Location Services (LCS); Mobile Station (MS) - Serving Mobile Location Centre (SMLC) Radio Resource LCS Protocol (RRLP) | G2 | Yes | |
| 04.35 | Location Services (LCS); Broadcast network assistance for Enhanced Observed Time Difference (E-OTD) and Global Positioning System (GPS) positioning methods | G2 | Yes | |
| 04.56 | GSM Cordless Telephony System (CTS), (Phase 1) CTS Radio Interface Layer 3 Specification | | Yes | |
| 04.57 | GSM Cordless Telephony System (CTS), (Phase 1) CTS CTS supervising system Layer 3 Specification | N1 | Yes | |
| 04.60 | General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/ Medium Access Control (RLC/MAC) protocol | G2 | Yes | |
| 04.64 | General Packet Radio Service (GPRS); Mobile Station - Serving GPRS Support Node (MS- SGSN) Logical Link Control (LLC) layer specification | N1 | Yes | |
| 04.65 | General Packet Radio Service (GPRS); Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCP) | N1 | Yes | |
| 04.68 | Group Call Control (GCC) Protocol | N1 | Yes | |
| 04.69 | Broadcast Call Control (BCC) protocol | N1 | Yes | |
| 04.71 | Location Services (LCS); Mobile radio interface layer 3 specification | G2 | Yes | |
| 05.01 | Physical Layer on the Radio Path (General Description) | G1 | Yes | |

| Number | Title | WG prime | For publication? | | |
|----------------|---|-------------|---|--|--|
| 05.02 | Multiplexing and Multiple Access on the Radio Path | G1 | Yes | | |
| 05.03 | Channel coding | G1 | Yes | | |
| 05.04 | Modulation | G1 | Yes | | |
| 05.05 | Radio Transmission and Reception | G1 | | | |
| 05.08 | Radio Subsystem Link Control | G1 | | | |
| 05.00 | Link adaptation | G1 | | | |
| 05.09 | Radio subsystem synchronization | G1 | | | |
| 05.22 | Radio link management in hierarchical networks | G1 | | | |
| | Background for RF Requirements | G1 | | | |
| 05.50 | | - | | | |
| 05.56 | GSM Cordless Telephony System (CTS), Phase 1; CTS-Fixed Part (FP) radio subsystem | G1 | | | |
| 06.01 | Full Rate Speech Processing Functions | S4 | Yes | | |
| 06.02 | Half Rate Speech Processing Functions | S4 | Yes | | |
| 06.06 | Half Rate Speech: ANSI-C Code for GSM Half Rate Speech Codec | S4 | Yes | | |
| 06.07 | Half Rate Speech: Test Sequence for GSM Half Rate Speech Codec | S4 | Yes Y | | |
| 06.08 | Half Rate Speech; Performance Characterization of the GSM Half Rate speech codec | S4 | Yes | | |
| 06.10 | • | <u> </u> | Vaa | | |
| | Full Rate Speech Transcoding | S4 | | | |
| 06.11 | Substitution and Muting of Lost Frames for Full Rate Speech Channels | S4 | | | |
| 06.12 | Comfort Noise Aspects for Full Rate Speech Traffic Channels | S4 | Yes | | |
| 06.20 | Half Rate Speech Transcoding | S4 | Yes | | |
| 06.21 | Half rate speech; Substitution and muting of lost frames for half rate speech traffic channels | S4 | Yes | | |
| 06.22 | Comfort Noise Aspects for Half Rate Speech Traffic Channels | S4 | Yes | | |
| 06.31 | Discontinuous Transmission (DTX) for Full Rate Speech Traffic Channels | S4 | Yes | | |
| 00.00 | | 04 | Vaa | | |
| 06.32 06.41 | Voice Activity Detection (VAD) | S4 | | | |
| | Discontinuous Transmission (DTX) for Half Rate Speech Traffic Channels | S4 | | | |
| 06.42 | Voice Activity Detection (VAD) for Half Rate Speech Traffic Channels | S4 | Yes | | |
| 06.51 | GSM Enhanced full rate speech processing functions: General description | S4 | Yes | | |
| 06.53 | ANSI-C code for the GSM Enhanced Full Rate (EFR) speech codec | S4 | Yes | | |
| 06.54 | Test sequences for the GSM Enhanced Full Rate (EFR) | S4 | Yes | | |
| 06.55 | Performance characterisation of the GSM EFR | S4 | Yes | | |
| 06 60 | Speech Codec | C 1 | Voc | | |
| 06.60 | Enhanced full rate speech transcoding | S4 | | | |
| 06.61 | Substitution and muting of lost frames for encanced full rate speech traffic channels | S4 | | | |
| 06.62 | Comfort noise aspects for Enhanced Full Rate (EFR) speech traffic channels | S4 | Yes | | |
| 06.76 | Adaptive Multi-Rate (AMR) speech codec; Study phase report | S4 | Yes | | |
| 06.77 | Minimum Performance Requirements for Noise Suppresser Application to the AMR Speech Encoder | S4 | Yes | | |
| 06.78 | Results of the AMR noise suppression selection phase | S4 | Yes | | |
| 06.81 | Discontinuous Transmission (DTX) for encanced full rate speech traffic channels | S4 | Yes | | |
| 06.82 | Voice Activity Detection (VAD) for encanced full rate speech traffic channels | S4 | Yes | | |
| 06.85 | Subjective tests on the interoperability of the HR/FR/EFR speech codecs; single, tandem and tandem free operation | S4 | Yes | | |

| Number | Title | WG prime | For publication? | | |
|---------|--|-------------|--|--|--|
| 08.01 | General Aspects on the BSS-MSC Interface | G2 | Yes | | |
| 08.02 | Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface - Interface Principles | G2 | Yes | | |
| 08.04 | Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface Layer 1 Specification | G2 | Yes | | |
| 08.06 | Signalling Transport Mechanism Specification for the Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface | G2 | Yes | | |
| 08.08 | Mobile-services Switching Centre - Base Station system (MSC-BSS) Interface Layer 3 Specification | G2 | Yes | | |
| 08.14 | General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) interface; Gb Interface Layer 1 | G2 | Yes | | |
| 08.16 | General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) Interface; Network Service | G2 | Yes | | |
| 08.18 | General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN); BSS GPRS Protocol | G2 | Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes | | |
| 08.20 | Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface | N3 | Yes | | |
| 08.31 | Location Services LCS: Serving Mobile Location Centre - Serving Mobile Location Centre (SMLC - SMLC); SMLCPP specification | G2 | Yes | | |
| 08.51 | Base Station Controller - Base Tranceiver Station (BSC-BTS) Interface General Aspects | G2 | Yes | | |
| 08.52 | Base Station Controller - Base Tranceiver Station (BSC-BTS) Interface - Interface Principles | G2 | Yes | | |
| 08.54 | BSC-BTS Layer 1; Structure of Physical Circuits | G2 | Yes | | |
| 08.56 | BSC-BTS Layer 2; Specification | G2 | Yes | | |
| 08.58 | Base Station Controler - Base Transceiver Station (BCS-BTS) Interface Layer 3 Specification | G2 | Yes | | |
| 08.60 | In-band control of remote transcoders and rate adaptors for Enhanced Full Rate (EFR) and full rate traffic channels | G1 | Yes | | |
| 08.61 | In-band control of remote transcoders and rate adaptors for half rate traffic channels | G1 | Yes | | |
| 08.62 | Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3 | S4 | Yes | | |
| 08.71 | Location Services (LCS); Serving Mobile Location Centre - Base Station System (SMLC- BSS) interface; Layer 3 | G2 | Yes | | |
| 09.01 | General Network Interworking Scenarios | N4 | Yes | | |
| 09.08 | Application of the Base Station System Application Part (BSSAP) on the E-Interface | N1 | Yes | | |
| 09.31 | Location Services (LCS); Base Station System Application Part LCS Extension (BSSAP-LE) | G2 | Yes | | |
| 10.56 | Project scheduling and open issues: GSM Cordless Telephony System CTS, Phase 1 | S2 | No | | |
| 10.59 | Project scheduling and open issues for EDGE | G1 | | | |
| 11.10-1 | Mobile station (MS) conformance specification; Part 1: Conformance specification | G3new | | | |
| 11.10-4 | Mobile Station (MS) conformance specification; Part 4: Subscriber Interface Module (SIM) application toolkit conformance specification | Т3 | Yes | | |
| 11.11 | Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) Interface | Т3 | Yes | | |
| 11.13 | Test specification for Subscriber Interface | Т3 | Yes | | |

| Number | Title | WG prime | For publication? | |
|--------|---|-------------|------------------|--|
| | Module (SIM) Application Programme Interface (API) for Java card | _ | | |
| 11.14 | Specification of the SIM Application Toolkit (SAT) for the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface | ТЗ | Yes | |
| 11.17 | Subscriber Interface Module (SIM) test specification | Т3 | Yes | |
| 11.21 | Base Station System (BSS) equipment specification; Radio aspects | G1 | Yes | |
| 11.26 | Base Station System (BSS) equipment specification; Part 4: Repeaters | G1 | Yes | |
| 12.03 | Security Management | S5 | Yes | |
| 12.04 | Performance data measurements | S5 | Yes | |
| 12.21 | Network Management (NM) procedures and messages on the A-bis interface | G1 | Yes | |
| 12.71 | Location Services (LCS); Location services management | S5 | Yes | |
| 21.801 | Specification drafting rules | SP | No | |
| 21.900 | Technical Specification Group working methods | SP | Yes | |
| 21.978 | Feasibility Technical Report; CAMEL Control of VoIP Services | N2 | Yes | |
| 22.001 | Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN) | S1 | Yes | |
| 22.002 | Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN) | S1 | Yes | |
| 22.003 | Circuit Teleservices supported by a Public Land Mobile Network (PLMN) | S1 | Yes | |
| 22.004 | General on supplementary services | S1 | Yes | |
| 22.011 | Service accessibility | S1 | Yes | |
| 22.016 | International Mobile Equipment Identities (IMEI) | S1 | Yes | |
| 22.022 | Personalisation of Mobile Equipment (ME); Mobile functionality specification | S3 | Yes | |
| 22.024 | Description of Charge Advice Information (CAI) | S1 | Yes | |
| 22.030 | Man-Machine Interface (MMI) of the User Equipment (UE) | S1 | Yes | |
| 22.031 | Fraud Information Gathering System (FIGS); Service description; Stage 1 | S3 | Yes | |
| 22.032 | Immediate Service Termination (IST); Service description; Stage 1 | S3 | Yes | |
| 22.034 | High Speed Circuit Switched Data (HSCSD); Stage 1 | S1 | Yes | |
| 22.038 | USIM/SIM Application Toolkit (USAT/SAT); Service description; Stage 1 | S1 | Yes | |
| 22.041 | Operator Determined Call Barring | S1 | Yes | |
| 22.042 | Network Identity and Time Zone (NITZ) service description; Stage 1 | S1 | Yes | |
| 22.057 | Mobile Execution Environment (MExE) service description; Stage 1 | S1 | Yes | |
| 22.060 | General Packet Radio Service (GPRS); Service description; Stage 1 | S1 | Yes | |
| 22.066 | Support of Mobile Number Portability (MNP); Stage 1 | S1 | Yes | |
| 22.067 | enhanced Multi-Level Precedence and Pre- emption service (eMLPP); Stage 1 | S1 S1 | Yes | |
| 22.071 | Location Services (LCS); Stage 1 | | Yes | |
| 22.072 | Call Deflection (CD); Stage 1 | S1 | Yes | |
| 22.078 | Customized Applications for Mobile network Enhanced Logic (CAMEL); Service description; Stage 1 | S1 | Yes | |
| 22.079 | Support of optimal routeing; Stage 1 | S1 | Yes | |
| 22.081 | Line Identification supplementary services; Stage | S1 | Yes | |
| 22.082 | Call Forwarding (CF) Supplementary Services; | S1 | Yes | |

| Number | Title | WG prime | For publication? | |
|--------|--|-------------|------------------|--|
| | Stage 1 | | | |
| 22.083 | Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 1 | S1 | Yes | |
| 22.084 | MultiParty (MPTY) supplementary service; Stage | S1 | Yes | |
| 22.085 | Closed User Group (CUG) supplementary services; Stage 1 | S1 | Yes | |
| 22.086 | Advice of Charge (AoC) supplementary services; Stage 1 | S1 | Yes | |
| 22.087 | User-to-user signalling (UUS); Stage 1 | S1 | Yes | |
| 22.088 | Call Barring (CB) supplementary services; Stage | S1 | Yes | |
| 22.090 | Unstructured Supplementary Service Data (USSD); Stage 1 | S1 | Yes | |
| 22.091 | Explicit Call Transfer (ECT) supplementary service; Stage 1 | S1 | Yes | |
| 22.093 | Completion of Calls to Busy Subscriber (CCBS); Service description, Stage 1 | S1 | Yes | |
| 22.094 | Follow Me service description - Stage 1 | S1 | Yes | |
| 22.096 | Name identification supplementary services; Stage 1 | S1 | Yes | |
| 22.097 | Multiple Subscriber Profile (MSP) Phase 1; Service description - Stage 1 | S1 | Yes | |
| 22.115 | Service Aspects Charging and billing | S1 | Yes | |
| 22.121 | Service aspects; The Virtual Home Environment; Stage 1 | S1 | Yes | |
| 22.129 | Handover requirements between UTRAN and GERAN or other radio systems | S1 | Yes | |
| 22.945 | Study of provision of fax service in GSM and UMTS | T2 | Yes | |
| 23.002 | Network architecture | S2 | Yes | |
| 23.003 | Numbering, addressing and identification | N4 | Yes | |
| 23.007 | Restoration procedures | N4 | Yes | |
| 23.008 | Organisation of subscriber data | N4 | Yes | |
| 23.009 | Handover procedures | N1 | Yes | |
| 23.011 | Technical realization of Supplementary Services | N4 | Yes | |
| 23.012 | Location management procedures | N4 | Yes | |
| 23.014 | Support of Dual Tone Multi Frequency (DTMF) signalling | N1 | Yes | |
| 23.015 | Technical realization of Operator Determined Barring (ODB) | N4 | Yes | |
| 23.016 | Subscriber data management; Stage 2 | N4 | Yes | |
| 23.018 | Basic Call Handling; Technical realization | N4 | Yes | |
| 23.031 | Fraud Information Gathering System (FIGS); Service description; Stage 2 | S3 | Yes | |
| 23.032 | Universal Geographical Area Description (GAD) | S2 | Yes | |
| 23.034 | High Speed Circuit Switched Data (HSCSD); Stage 2 | N1 | Yes | |
| 23.035 | Immediate Service Termination (IST); Stage 2 | S3 | Yes | |
| 23.038 | Alphabets and language-specific information | T2 T2 | Yes | |
| 23.039 | Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs) | | Yes | |
| 23.040 | Technical realization of Short Message Service (SMS) | T2 | Yes | |
| 23.041 | Technical realization of Cell Broadcast Service (CBS) | T2 | Yes | |
| 23.042 | Compression algorithm for SMS | T2 | Yes | |
| 23.057 | Mobile Execution Environment (MExE); Functional description; Stage 2 | T2 | Yes | |
| 23.060 | General Packet Radio Service (GPRS) Service description; Stage 2 | S2 | Yes | |
| 23.066 | Support of GSM Mobile Number Portability | N4 | Yes | |

| Number | Title | WG prime | For publication? | |
|--------|--|-------------|---|--|
| | (MNP) stage 2 | | | |
| 23.067 | Enhanced Multi-Level Precedence and Pre- emption Service (eMLPP); Stage 2 | N4 | Yes | |
| 23.072 | Call Deflection Supplementary Service; Stage 2 | N4 | Yes | |
| 23.078 | customized Applications for Mobile network Enhanced Logic (CAMEL); Stage 2 | N2 | Yes | |
| 23.079 | Support of Optimal Routeing (SOR); Technical realization; Stage 2 | N4 | Yes | |
| 23.081 | Line Identification supplementary services; Stage 2 | N4 | Yes | |
| 23.082 | Call Forwarding (CF) Supplementary Services; Stage 2 | N4 | Yes | |
| 23.083 | Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 2 | N4 | Yes | |
| 23.084 | MultiParty (MPTY) Supplementary Service; Stage 2 | N4 | Yes | |
| 23.085 | Closed User Group (CUG) Supplementary Service; Stage 2 | N4 | Yes Y | |
| 23.086 | Advice of Charge (AoC) Supplementary Service; Stage 2 | N4 | Yes | |
| 23.087 | User-to-User Signalling (UUS) supplementary service; Stage 2 | N4 | Yes | |
| 23.088 | Call Barring (CB) Supplementary Service; Stage 2 | N4 | Yes | |
| 23.090 | Unstructured Supplementary Service Data (USSD); Stage 2 | N4 | Yes | |
| 23.091 | Explicit Call Transfer (ECT) Supplementary Service; Stage 2 | N4 | Yes | |
| 23.093 | Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2 | N4 | Yes | |
| 23.094 | Follow Me Stage 2 | | Yes | |
| 23.096 | Name Identification Supplementary Service; Stage 2 | N4 | Yes | |
| 23.097 | Multiple Subscriber Profile (MSP) Phase 1; Stage 2 | N4 | Yes | |
| 23.108 | Mobile radio interface layer 3 specification core network protocols; Stage 2 (structured procedures) | N1 | Yes | |
| 23.110 | UMTS Access Stratum Services and Functions | S2 | Yes | |
| 23.116 | Super-Charger technical realization; Stage 2 | N4 | | |
| 23.119 | Gateway Location Register (GLR); Stage2 | N4 | Yes | |
| 23.121 | Architectural requirements for Release 1999 | S2 | Yes | |
| 23.122 | Non-Access-Stratum functions related to Mobile Station (MS) in idle mode | N1 | Yes | |
| 23.140 | Multimedia Messaging Service (MMS); Functional description; Stage 2 | T2 | Yes | |
| 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 | | |
| 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 | Yes | |
| 24.010 | Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects | N4 | Yes | |
| 24.011 | Point-to-Point (PP) Short Message Service (SMS) support on Mobile Radio Interface | N1 | Yes | |

| Number | Title | WG prime | For publication? | |
|--------|---|-------------|------------------|--|
| 24.022 | Radio Link Protocol (RLP) for circuit switched bearer and teleservices | N3 | Yes | |
| 24.030 | Location Services (LCS); Supplementary service operations; Stage 3 | N4 | Yes | |
| 24.067 | Enhanced Multi-Level Precedence and Pre- emption service (eMLPP); Stage 3 | N4 | Yes | |
| 24.072 | Call Deflection Supplementary Service; Stage 3 | N4 | Yes | |
| 24.080 | Mobile radio Layer 3 supplementary service specification; Formats and coding | N4 | Yes | |
| 24.081 | Line Identification Supplementary Service; Stage 3 | N4 | Yes | |
| 24.082 | Call Forwarding supplementary service; Stage 3 | N4 | Yes | |
| 24.083 | Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 | N4 | Yes | |
| 24.084 | MultiParty (MPTY) Supplementary Service; Stage 3 | N4 | Yes | |
| 24.085 | Closed User Group (CUG) Supplementary Service; Stage 3 | N4 | Yes | |
| 24.086 | Advice of Charge (AoC) Supplementary Service; Stage 3 | N4 | Yes | |
| 24.087 | User-to-User Signalling (UUS); Stage 3 | N4 | Yes | |
| 24.088 | Call Barring (CB) Supplementary Service; Stage 3 | N4 | Yes | |
| 24.090 | Unstructured Supplementary Service Data (USSD); Stage 3 | N4 | Yes | |
| 24.091 | Explicit Call Transfer (ECT) Supplementary Service; Stage 3 | N4 | Yes | |
| 24.093 | Call Completion to Busy Subscriber (CCBS); Stage 3 | N4 | Yes | |
| 24.096 | Name Identification Supplementary Service; Stage 3 | N4 | Yes | |
| 26.071 | AMR speech Codec; General description | S4 | Yes | |
| 26.073 | AMR speech Codec; C-source code | S4 | Yes | |
| 26.074 | AMR speech Codec; Test sequences | S4 | Yes | |
| 26.090 | AMR speech Codec; Transcoding Functions | S4 | Yes | |
| 26.091 | AMR speech Codec; Error concealment of lost frames | S4 | Yes | |
| 26.092 | AMR speech Codec; comfort noise for AMR Speech Traffic Channels | S4 | Yes | |
| 26.093 | AMR speech Codec; Source Controlled Rate operation | S4 | Yes | |
| 26.094 | AMR Speech Codec; Voice Activity Detector for AMR Speech Traffic Channels | S4 | Yes | |
| 26.102 | Adaptive Multi-Rate (AMR) speech codec; Interface to Iu and Uu | S4 | Yes | |
| 26.103 | Speech codec list for GSM and UMTS | S4 | Yes | |
| 26.104 | ANSI-C code for the floating-point Adaptive Multi-Rate (AMR) speech codec | S4 | Yes | |
| 26.110 | Codec for circuit switched multimedia telephony service; General description | S4 | Yes | |
| 26.111 | Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324 | S4 | Yes | |
| 26.911 | Codec for Circuit switched Multimedia Telephony Service;Terminal Implementor's Guide | S4 | Yes | |
| 26.975 | Performance characterization of the Adaptive Multi-Rate (AMR) speech codec | S4 | Yes | |
| 27.001 | General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS) | N3 | Yes | |
| 27.002 | Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities | N3 | Yes | |
| 27.003 | Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities | N3 | Yes | |
| 27.005 | Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE-DCE) interface for | T2 | Yes | |

| Number | Title | WG prime | For publication? |
|--------|--|-------------|------------------|
| | Short Message Service (SMS) and Cell Broadcast Service (CBS) | | |
| 27.007 | AT command set for 3G User Equipment (UE) | T2 | Yes |
| 27.010 | Terminal Equipment to User Equipment (TE-UE) multiplexer protocol | T2 | Yes |
| 27.060 | Packet domain; Mobile Station (MS) supporting Packet Switched services | N3 | Yes |
| 27.103 | Wide Area Network Synchronization | T2 | Yes |
| 29.002 | Mobile Application Part (MAP) specification | N4 | 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 |
| 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 |
| 29.011 | Signalling Interworking for Supplementary Services | N4 | Yes |
| 29.013 | Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols | N4 | Yes |
| 29.016 | Serving GPRS Support Node SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification | N1 | Yes |
| 29.018 | General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification | N1 | Yes |
| 29.060 | General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface | N4 | Yes |
| 29.061 | Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN) | N3 | Yes |
| 29.078 | customized Applications for Mobile network Enhanced Logic (CAMEL); CAMEL Application Part (CAP) specification | N2 | Yes |
| 29.994 | Recommended infrastructure measures to overcome specific Mobile Station (MS) and User Equipment (UE) faults | N1 | Yes |
| 31.111 | Universal Subscriber Identity Module Application Toolkit (USAT) | Т3 | Yes |

6.1 (void)

6.2 (void)

Annex A (informative): Document change history

| | Status of GSM 01.01 | | | | |
|----------------|---------------------|---|--|--|--|
| Date | Version | Information about changes | | | |
| August 1999 | version 0.0.0 | 1 st draft created by MCC | | | |
| August 1999 | version 0.0.1 | Comment from SMG6/S5 and N1 included. New LCS specs | | | |
| September 1999 | version 0.0.2 | Transfer of 04.12 to 24.012 included, 22.121, 22.115, 22.129 included (SA1 comment) | | | |
| September 1999 | version 0.0.3 | Joint SMG11/S4 Meeting decisions on AMR and TFO | | | |
| September 1999 | version 0.1.0 | Joint SMG11/S4, S2 and WOME comments included | | | |
| September 1999 | version 0.2.0 | 03.41 transferred T2/SMG4 | | | |
| October 1999 | version 0.3.0 | Editorial changes | | | |
| October 1999 | version 0.4.0 | Updated to align with 21.101 | | | |
| November | version 1.0.0 | Updated to align with 21.101. For information to SMG#30 | | | |
| November | version 1.1.0 | Updated to align with 21.101. | | | |
| June 00 | version 2.0.0 | Updated and checked by SMG12 chairman and MCC. Approved by SMG#32 | | | |
| June 00 | version 8.0.0 | Cleaned up. | | | |

| | Change history | | | | | | | | |
|---------|----------------|-----------|-----|-----|--|--------|--------|--|--|
| Date | TSG # | TSG Doc. | CR | Rev | Subject/Comment | Old | New | | |
| 2000-12 | SA#10 | SP-000526 | 001 | | Corrections to table of specs which comprise GSM Release 1999 | 8.0.0 | 8.1.0 | | |
| 2001-06 | SA#12 | SP-010382 | 002 | 1 | Correction to list of specs | 8.1.0 | 8.2.0 | | |
| 2001-09 | SA#13 | SP-010586 | 003 | 2 | Correction to list of specs | 8.2.0 | 8.3.0 | | |
| 2001-12 | SA#14 | SP-010657 | 004 | | Correction to list of specs | 8.3.0 | 8.4.0 | | |
| 2002-03 | SA#15 | SP-020178 | 005 | 1 | Correction to list of specs Also eliminated 01.00 since this was withdrawn (from all Releases) by separate agreement of SA#15. | 8.4.0 | 8.5.0 | | |
| 2002-06 | SA#16 | SP-020399 | 007 | 1 | Correction to list of specs | 8.5.0 | 8.6.0 | | |
| 2002-09 | SA#17 | SP-020614 | 008 | 1 | Correction to list of specs; editorial correction to titles; removal of reference to wideband codecs in clause 5.2.4 | 8.6.0 | 8.7.0 | | |
| 2002-12 | SA#18 | SP-020832 | 009 | 1 | Correction to list of specs | 8.7.0 | | | |
| | | SP-020784 | 010 | - | Correction to list of work items | | 8.8.0 | | |
| 2003-03 | SA#19 | SP-030077 | 011 | - | Correction to list of work items | 8.8.0 | 8.9.0 | | |
| 2003-06 | SA#20 | SP-030299 | 016 | - | Change of title to render it independent of Release | 8.9.0 | | | |
| | | | 017 | - | Correction to list of specs | | 8.10.0 | | |
| 2003-09 | SA#21 | SP-030498 | 019 | - | Correction to list of specifications and removal of redundant information | 8.10.0 | 8.11.0 | | |
| 2003-09 | | | | | Correction to change history table | 8.11.0 | 8.11.1 | | |
| 2004-03 | SA#23 | SP-040221 | 020 | 1 | Corrections to list of specifications | 8.11.1 | 8.12.0 | | |

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| Document history | | |
|------------------|----------------|-------------|
| V8.0.0 | October 2000 | Publication |
| V8.1.0 | December 2000 | Publication |
| V8.2.0 | July 2001 | Publication |
| V8.3.0 | September 2001 | Publication |
| V8.4.0 | December 2001 | Publication |
| V8.5.0 | March 2002 | Publication |
| V8.6.0 | June 2002 | Publication |
| V8.7.0 | September 2002 | Publication |
| V8.8.0 | December 2002 | Publication |
| V8.9.0 | March 2003 | Publication |
| V8.10.0 | June 2003 | Publication |
| V8.11.1 | September 2003 | Publication |
| V8.12.0 | March 2004 | Publication |