

**3GPP TSG-CN Meeting #15**  
**3GPP TSG-RAN Meeting #15**  
**3GPP TSG-T Meeting #15**  
**3GPP TSG-SA Meeting #15**  
**Jeju, Korea, March 2002**

***Tdoc NP-020119***  
***Tdoc RP-020104***  
***Tdoc TP-020051***  
***Tdoc SP-020098***

---

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

**Title:** **3GPP TS 41.103 v1.1.0:**  
**"GSM Release 5 specifications"**

**Document for:** **information**

TS 21.103 lists the 3GPP specifications for a Release 5 system with GERAN. This is a draft for information, and the table of specs is far from complete. It shows those specs and reports which either exist already or which the TSGs have shown a clear intention of producing. Additionally, information on the freeze date for each spec is shown (see 21.900).

Following the freeze of Rel-5 (anticipated at SA#15), the remaining specs can be identified and 41.103 can be brought under change control.

# 3GPP TS 41.103 V1.1.0 (2002-03)

---

*Technical Specification*

## **3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; GSM Release 5 specifications (Release 5)**



The present document has been developed within the 3<sup>rd</sup> Generation Partnership Project (3GPP™) and may be further elaborated for the purposes of 3GPP.

The present document has not been subject to any approval process by the 3GPP Organizational Partners and shall not be implemented. This Specification is provided for future development work within 3GPP only. The Organizational Partners accept no liability for any use of this Specification. Specifications and reports for implementation of the 3GPP™ system should be obtained via the 3GPP Organizational Partners' Publications Offices.

---

Keywords

---

GSM, architecture

**3GPP**

Postal address

---

3GPP support office address

---

650 Route des Lucioles - Sophia Antipolis  
Valbonne - FRANCE  
Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Internet

---

<http://www.3gpp.org>

---

**Copyright Notification**

---

No part may be reproduced except as authorized by written permission.  
The copyright and the foregoing restriction extend to reproduction in all media.

© 2001, 3GPP Organizational Partners (ARIB, CWTS, ETSI, T1, TTA, TTC).  
All rights reserved.

---

# Contents

Foreword..... 4

1 Scope ..... 5

2 References ..... 5

3 Abbreviations ..... 5

4 General ..... 5

5 Specifications and Reports ..... 5

**Annex A (informative): Change history ..... 9**

---

# Foreword

This Technical Specification has been produced by the 3<sup>rd</sup> 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 5.

## 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 3<sup>rd</sup> 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 3<sup>rd</sup> 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

Number	Title	WG	For publication ?	freeze date	frozen
22.003	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	S1	Yes	14/03/2002	yes
22.038	USIM/SIM Application Toolkit (USAT/SAT); Service description; Stage 1	S1	Yes	14/03/2002	yes
22.057	Mobile Execution Environment (MExE); Stage 1	S1	Yes	14/03/2002	yes
22.060	General Packet Radio Service (GPRS); Service description; Stage 1	S1	Yes	14/03/2002	yes
22.071	Location Services (LCS); Stage 1	S1	Yes	14/03/2002	yes

22.078	Customized Applications for Mobile network Enhanced Logic (CAMEL); Service description; Stage 1	S1	Yes	14/03/2002	yes
22.115	Service Aspects Charging and billing	S1	Yes	14/03/2002	yes
22.121	Service aspects; The Virtual Home Environment; Stage 1	S1	Yes	14/03/2002	yes
22.129	Handover requirements between UTRAN and GERAN or other radio systems	S1	Yes	14/03/2002	yes
23.002	Network Architecture	S2	Yes	14/03/2002	yes
23.003	Numbering, Addressing and Identification	N4	Yes	14/03/2002	yes
23.009	Handover procedures	N1	Yes	14/03/2002	yes
23.014	Support of Dual Tone Multi Frequency (DTMF) signalling	N1	Yes	08/03/2002	yes
23.018	Basic Call Handling; Technical realization	N4	Yes	14/03/2002	yes
23.034	High Speed Circuit Switched Data (HSCSD); Stage 2	N1	Yes	08/03/2002	yes
23.040	Technical realization of Short Message Service (SMS)	T2	Yes	14/03/2002	yes
23.048	Security Mechanisms for the (U)SIM application toolkit; Stage 2	T3	Yes	08/03/2002	yes
23.060	General Packet Radio Service (GPRS) Service description; Stage 2	S2	Yes	14/03/2002	yes
23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2	N2	Yes	07/06/2002	
23.084	MultiParty (MPTY) Supplementary Service; Stage 2	N4	Yes	14/03/2002	yes
23.140	Multimedia Messaging Service (MMS); Functional description; Stage 2	T2	Yes	08/03/2002	yes
23.221	Architectural requirements	S2	Yes	14/03/2002	yes
23.236	Intra-domain connection of Radio Access Network (RAN) nodes to multiple Core Network (CN) nodes	S2	Yes	14/03/2002	yes
23.271	Functional stage 2 description of location services	S2	Yes	14/03/2002	yes
24.002	GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration	N1	Yes	08/03/2002	yes
24.007	Mobile radio interface signalling layer 3; General Aspects	N1	Yes	08/03/2002	yes
24.008	Mobile radio interface Layer 3 specification; Core network protocols; Stage 3	N1	Yes	14/03/2002	yes
24.011	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	N1	Yes	08/03/2002	yes
24.022	Radio Link Protocol (RLP) for circuit switched bearer and teleservices	N3	Yes	08/03/2002	yes
24.229	IP Multimedia Call Control Protocol based on SIP and SDP; stage 3	N1	Yes	07/06/2002	
26.140	Multimedia Messaging Service (MMS); Media formats and codes	S4	Yes	14/03/2002	yes
26.173	ANSI-C code for the Adaptive Multi Rate (AMR) Wideband speech codec	S4	Yes	14/03/2002	yes
27.001	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	N3	Yes	08/03/2002	yes
27.002	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	N3	Yes	08/03/2002	yes
27.003	Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities	N3	Yes	08/03/2002	yes
27.007	AT command set for 3G User Equipment (UE)	T2	Yes	08/03/2002	yes
27.060	Packet domain; Mobile Station (MS) supporting Packet Switched services	N3	Yes	08/03/2002	yes
29.002	Mobile Application Part (MAP) specification	N4	Yes	08/03/2002	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	08/03/2002	yes
29.016	Serving GPRS Support Node SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification	N1	Yes	08/03/2002	yes
29.018	General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification	N1	Yes	08/03/2002	yes
29.060	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface	N4	Yes	08/03/2002	yes
29.061	Interworking between the Public Land Mobile Network (PLMN) supporting Packet Based services and Packet Data Networks (PDN)	N3	Yes	08/03/2002	yes
29.078	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3; CAMEL Application Part (CAP) specification	N2	Yes	07/06/2002	
32.625	Telecommunication management; 3G Configuration Management; Generic network resources IRP: Bulk CM XML file	S5	Yes	14/03/2002	yes

	format definition				
32.655	Telecommunication management; 3G Configuration Management; GERAN network resources IRP: Bulk CM XML file format definition	S5	Yes	14/03/2002	yes
41.103	GSM Release 5 specifications	SP	Yes	14/03/2002	yes
42.019	Subscriber Identity Module Application Programming Interface (SIM API); Stage 1	T3	Yes	08/03/2002	yes
43.010	GSM Public Land Mobile Network (PLMN) connection types	N3	Yes	08/03/2002	yes
43.019	Subscriber Identity Module Application Programming Interface (SIM API) for Java Card; Stage 2	T3	Yes	08/03/2002	yes
43.045	Technical Realization of Facsimile Group 3 Service - transparent	N3	Yes	08/03/2002	yes
43.050	Transmission Planning Aspects of the Speech Service in the GSM Public Land Mobile Network (PLMN) System	S4	Yes	14/03/2002	yes
43.051	GSM/EDGE Radio Access Network (GERAN) overall description; Stage 2	G1	Yes	14/03/2002	yes
43.059	Functional stage 2 description of Location Services (LCS) in GERAN	G1	Yes	14/03/2002	yes
43.068	Voice Group Call Service (VGCS); Stage 2	N1	Yes	08/03/2002	yes
43.069	Voice Broadcast service (VBS); Stage 2	N1	Yes	08/03/2002	yes
43.900	Support for voice optimization for the IMS in the GERAN	G2	Yes	14/03/2002	yes
44.001	Mobile Station - Base Station System (MS - BSS) Interface General Aspects and Principles	N1	Yes	08/03/2002	yes
44.004	Layer 1 - General Requirements	G2	Yes	19/04/2002	
44.013	Performance Requirements on Mobile Radio Interface	N1	Yes	08/03/2002	yes
44.018	Mobile radio interface layer 3 specification; Radio Resource Control Protocol	G2	Yes	14/03/2002	yes
44.021	Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface	N3	Yes	08/03/2002	yes
44.031	Location Services (LCS); Mobile Station (MS) - Serving Mobile Location Centre (SMLC) Radio Resource LCS Protocol (RRLP)	G2	Yes	19/04/2002	
44.056	GSM Cordless Telephony System (CTS), (Phase 1) CTS Radio Interface Layer 3 Specification	N1	Yes	08/03/2002	yes
44.057	GSM Cordless Telephony System (CTS), (Phase 1) CTS CTS supervising system Layer 3 Specification	N1	Yes	08/03/2002	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	19/04/2002	
44.064	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	N1	Yes	08/03/2002	yes
44.065	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCP)	N1	Yes	08/03/2002	yes
44.068	Group Call Control (GCC) Protocol	N1	Yes	08/03/2002	yes
44.069	Broadcast Call Control (BCC) protocol	N1	Yes	08/03/2002	yes
44.118	Mobile radio interface layer 3 specification, Radio Resource Control (RRC) protocol Iu mode	G2	Yes	19/04/2002	
44.901	External network assisted cell change (NACC)	G2	Yes	19/04/2002	
45.001	Physical Layer on the Radio Path (General Description)	G1	Yes	14/03/2002	yes
45.002	Multiplexing and Multiple Access on the Radio Path	G1	Yes	14/03/2002	yes
45.003	Channel coding	G1	Yes	14/03/2002	yes
45.004	Modulation	G1	Yes	19/04/2002	
45.005	Radio transmission and reception	G1	Yes	19/04/2002	
45.008	Radio subsystem link control	G1	Yes	14/03/2002	yes
45.009	Link adaptation	G1	Yes	14/03/2002	yes
48.002	Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface - Interface Principles	G2	Yes	14/03/2002	yes
48.008	Mobile Switching Centre - Base Station system (MSC-BSS) Interface Layer 3 Specification	G2	Yes	14/03/2002	yes
48.016	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) Interface; Network Service	G2	Yes	19/04/2002	
48.018	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN); BSS GPRS Protocol	G2	Yes	14/03/2002	yes
48.020	Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface	N3	Yes	08/03/2002	yes
48.058	Base Station Controller - Base Transceiver Station (BCS-BTS)	G2	Yes	14/03/2002	yes



	Interface Layer 3 Specification				
49.008	Application of the Base Station System Application Part (BSSAP) on the E-Interface	N1	Yes	08/03/2002	yes
49.031	Location Services (LCS); Base Station System Application Part LCS Extension (BSSAP-LE)	G2	Yes	19/04/2002	
50.099	GERAN project plan and open issues	GP	No	19/04/2002	
51.011	Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface	T3	Yes	08/03/2002	yes

---

## Annex A (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2001-06	SP-12	SP-010278	-	-	First draft		0.0.0
2001-06-20	SP-12	SP-010384			updates table of specs	0.0.0	0.1.0
2001-09-12	SP-13	SP-010421			updates table of specs	0.1.0	1.0.0
2002-03-04	SP-15	SP-020098			updates table of specs	1.0.0	1.1.0