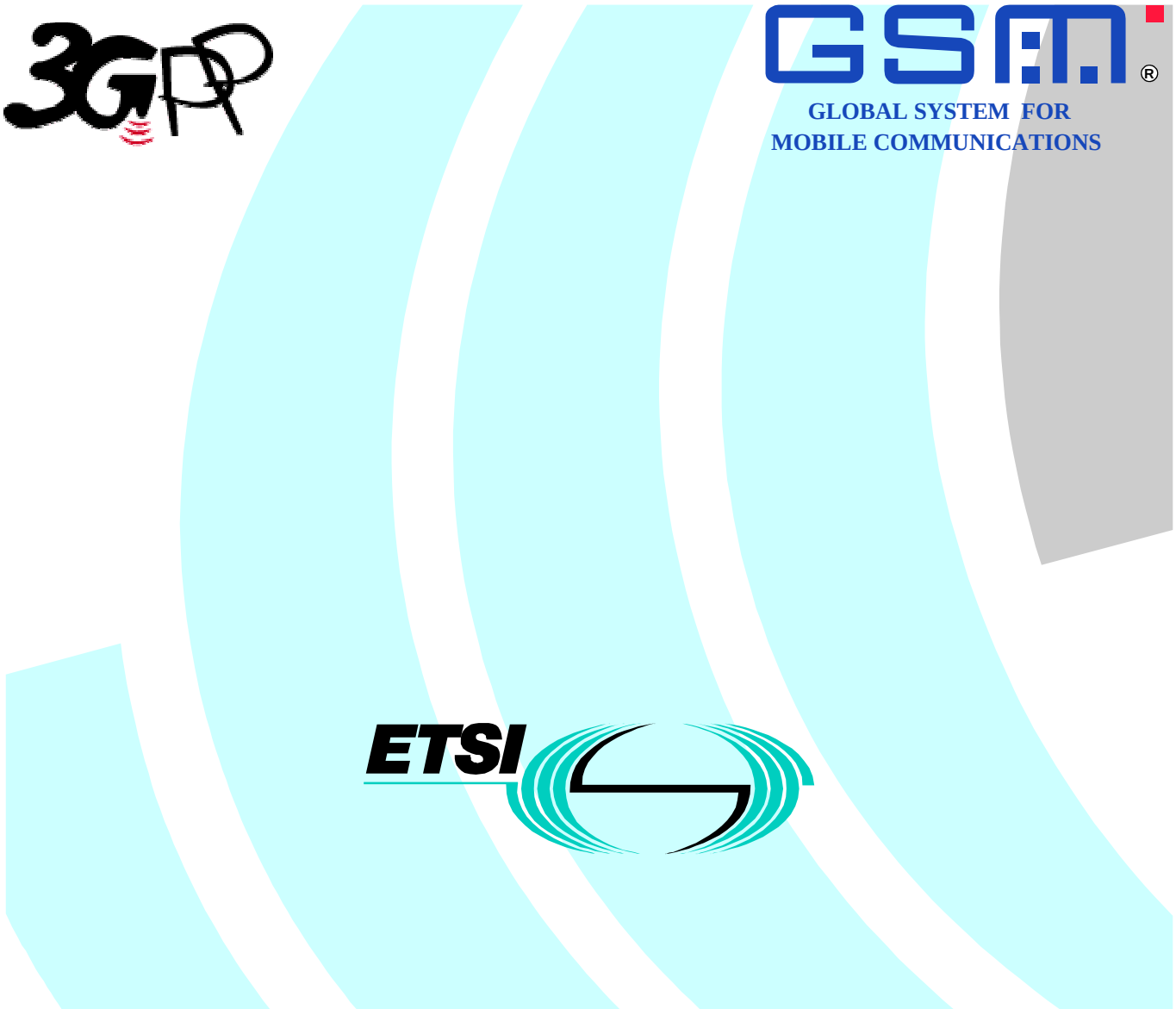
ETSI TS 121 101 V3.0.1 (2000-03)

Technical Specification

Digital cellular telecommunications system (Phase 2+) (GSM);
Universal Mobile Telecommunications System (UMTS);
3rd Generation mobile system Release 1999 Specifications
(3G TS 21.101 version 3.0.1 Release 1999)



Reference
DTS/TSGS-0021101U

Keywords
GSM, UMTS

ETSI

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

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

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

Important notice

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

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

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

If you find errors in the present document, send your comment to:
editor@etsi.fr

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.

© European Telecommunications Standards Institute 2000.

All rights reserved.

Intellectual Property Rights

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

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

Foreword

This Technical Specification (TS) has been produced by the 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 www.etsi.org/key .

Contents

Foreword 4
1 Scope 5
2 References 5
3 Abbreviations 5
4 General 5
4.1 Specification and report numbering 5
4.2 Specification series 6
4.2.1 21-series 6
4.2.2 22-series 6
4.2.3 23-series 6
4.2.4 24-series 6
4.2.5 25-series 7
4.2.5.1 25.100-series 7
4.2.5.2 25.200-series 7
4.2.5.3 25.300-series 7
4.2.5.4 25.400-series 7
4.2.6 26-series 7
4.2.7 27-series 7
4.2.8 28-series 7
4.2.9 29-series 7
4.2.10 30-series 7
4.2.11 31-series 8
4.2.12 32-series 8
4.2.13 33-series 8
4.2.14 34-series 8
4.2.15 35-series 8
5 Specifications and Reports of 3G Release 1999 8

Annex A (informative): Model for the technical management and project co-ordination for 3GPP Release 2000 15

Annex B (informative): Document change history 16

Foreword

This Technical Specification (TS) 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 3rd generation mobile system specifications for Release 1999. The specifications and reports of 3G Release 1999 have a major version number 3 (e.g. 3.x.y).

Release 1999 Technical Specifications and Technical Reports were functionally frozen at the 6th Technical Specification Group meetings (TSG#6) in December 1999.

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

NOTE 2: It can be expected that corrective CRs will be introduced into the Release 1999 version 3.x.y specifications throughout 2000.

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.

[1] 3G TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3G TR 21.900: "3GPP Working methods".

3 Abbreviations

For the purposes of the present document, the terms and definitions given in TS 21.905 apply.

4 General

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

The present document identifies the 3G system set of specifications required to implement Release 1999.

NOTE: GSM Release 1999 also consists of many enhanced features developed within the 3rd Generation Partnership Project. GSM Specification GSM 01.01 identifies the specifications and Reports of GSM release 1999.

4.1 Specification and report numbering

The numbering scheme described is similar to the GSM numbering scheme. The numbering scheme is designed on the experience of GSM in document structure and to create a structure that is easy to understand and remember.

To allow for more flexibility in the 3GPP numbering scheme and to allow for expansion, it has been decided to increase the numbering scheme by one digit to a 2+3 digit system (ab.**c**de). This permits a maximum number of 999 specifications in one series. It should be noted that the GSM system numbering has almost been completely used up.

The numbering scheme applies to specifications and reports for the 3GPP 3rd Generation Mobile System.

Where existing GSM Specifications are enhanced/modified by the TSGs for the 3rd Generation Mobile System the specification title and version should change (title reflecting 3rd Generation Mobile System). The GSM number (ab) is increased by 20 and a "**c**" digit equal to zero added (e.g. GSM 07.07 becomes 3GTS 27.007) indicating the GSM heritage of the Specification.

For newly created 3GPP Specifications the "c" digit is not equal to zero.

Existing 3rd Generation specifications transferred from ETSI SMG have a "c" digit equal to one e.g. SMG UMTS TS 22.00 becomes 3G TS 22.100.

For newly created 3GPP Technical reports the "c" digit is normally equal to nine e.g. A report in the 23 series will have a number 23.9de. The "c" digit equal to eight may be used for over-spill of the ab.9de range, or allocated to reports not intended for external circulation.

Specification numbers will be allocated on request by a centralised point within the 3GPP support group (see subclause 4.1 of TR 21.900 [2]). A particular series will not necessarily remain within or be the sole responsibility of a particular TSG or WG.

The following series titles and descriptions should be used for guidance only and may be further developed with experience.

4.2 Specification series

In general the Specification series is identified as follows.

4.2.1 21-series

Requirements specifications

These specifications are often transient and contain requirements leading to 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 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 a single or more network elements, e.g. UIM, mobile terminal, auxiliary system to the core network etc.); stage 1 specifications that are felt appropriate belong to this series; reports defining services which can be realized by generic building blocks etc. also belong to this series.

4.2.3 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 unexceptional cases, etc.).

4.2.4 24-series

Signalling protocols (UE - CN network)

This series contains the detailed and bit-exact stage 3 specifications of protocols between MS/UE and the Core Network.

4.2.5 25-series

UTRA aspects

4.2.5.1 25.100-series

UTRA radio performance aspects

This series defines the radio performance of UTRAN.

4.2.5.2 25.200-series

UTRA radio aspects

This series defines the (physical) layer 1 of UTRA.

4.2.5.3 25.300-series

UTRA radio interface architecture, layer 2 and layer 3 aspects

This series defines the layer 2/3 of the UMTS radio.

4.2.5.4 25.400-series

UTRA Network aspects

This series defines the Iub, Iur and Iu interfaces within UTRAN.

4.2.6 26-series

Codecs (speech, video, etc.)

This series defines speech codecs and other codecs (video etc.).

4.2.7 27-series

Data

This series defines the functions necessary to support data applications.

4.2.8 28-series

Reserved for future use.

4.2.9 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 30-series

Programme management

This series contains the 3GPP 3rd Generation Mobile System, project plans / project work programme and stand-alone documents for major work items.

4.2.11 31-series

UIM

This series specifies the User Identity Module (UIM) and the interfaces between UIM and other entities.

4.2.12 32-series

Operation and maintenance

This series defines the application of TMN for the 3GPP 3rd Generation Mobile System and other functions for operation, administration and maintenance of a 3rd Generation Mobile System network.

4.2.13 33-series

Security aspects

This series contains specifications of security functions.

4.2.14 34-series

Test specifications

This series contains test specifications.

4.2.15 35-series

Algorithms

This series contains the specifications of encryption algorithms for confidentiality and authentication, etc.

5 Specifications and Reports of 3G Release 1999

NOTE 1: "NSS" in the third column of the table below signifies the Suplementary Services ad hoc group of TSG CN.

NOTE 2: The final column of the table below indicates whether or not the documents are intended for adoption by the partner Standards Development Organizations as their own publications. Those marked "no" are internal working documents of the 3GPP TSGs.

NOTE 3: The algorithm specifications in the 35-series are available only under licence.

NOTE 4: "Type" indicates Technical Specification (TS) or Technical Report (TR).

Type	Number	Title	WG	For publication
TS	21.101	3rd Generation mobile system Release 1999 Specifications	S	Yes
TS	21.111	USIM and IC card requirements	T3	Yes
TS	21.133	Security Threats and Requirements	S3	Yes
TS	21.200	3GPP drafting rules		Yes
TR	21.810	Multi-mode UE issues	T2	No
TR	21.900	3GPP Working methods	S	Yes
TR	21.904	UE Capability Requirements (UCR)	T2	Yes
TR	21.905	3G Vocabulary	S1	Yes
TR	21.978	Feasibility Technical Report – CAMEL Control of VoIP Services	N2A	Yes
TS	22.001	Principles of CircuitTelecommunication Services Supported by a Public Land Mobile Network (PLMN)	S1	Yes
TS	22.002	Circuit Bearer Services Supported by a PLMN	S1	Yes
TS	22.003	Circuit Teleservices supported by a Public Land Mobile Network	S1	Yes

Type	Number	Title	WG	For publication
		(PLMN)		
TS	22.004	General on Supplementary Services	S1	Yes
TS	22.011	Service accessibility	S1	Yes
TS	22.016	International Mobile Equipment Identities (IMEI)	S1	Yes
TS	22.022	Personalisation of GSM ME Mobile functionality specification - Stage 1	S3	Yes
TS	22.024	Description of Charge Advice Information (CAI)	S1	Yes
TS	22.030	Man-Machine Interface (MMI) of the Mobile Station (MS)	S1	Yes
TS	22.034	High Speed Circuit Switched Data (HSCSD) - Stage 1	S1	Yes
TS	22.038	SIM application toolkit (SAT); Stage 1	S1	Yes
TS	22.041	Operator Determined Call Barring	S1	Yes
TS	22.042	Network Identity and Time Zone (NITZ), stage 1	S1	Yes
TS	22.043	Support of Localised Service Area (SoLSA) - Stage 1	S1	Yes
TS	22.057	Mobile Station Application Execution Environment (MExE); Stage 1	S1	Yes
TS	22.060	General Packet Radio Service (GPRS); Stage 1	S1	Yes
TS	22.066	Support of Mobile Number Portability (MNP); Stage 1	S1	Yes
TS	22.067	enhanced Multi-Level Precedence and Pre-emption service (eMLPP) - Stage 1	S1	Yes
TS	22.071	Location Services (LCS); Stage 1 (T1P1)	S1	Yes
TS	22.072	Call Deflection (CD); Stage 1	S1	Yes
TS	22.078	CAMEL; Stage 1	S1	Yes
TS	22.079	Support of Optimal Routing; Stage 1	S1	Yes
TS	22.081	Line Identification Supplementary Services; Stage 1	S1	Yes
TS	22.082	Call Forwarding (CF) Supplementary Services; Stage 1	S1	Yes
TS	22.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1	S1	Yes
TS	22.084	MultiParty (MPTY) Supplementary Service; Stage 1	S1	Yes
TS	22.085	Closed User Group (CUG) Supplementary Services; Stage 1	S1	Yes
TS	22.086	Advice of Charge (AoC) Supplementary Services; Stage 1	S1	Yes
TS	22.087	User-to-user signalling (UUS); Stage 1	S1	Yes
TS	22.088	Call Barring (CB) Supplementary Services; Stage 1	S1	Yes
TS	22.090	Unstructured Supplementary Service Data (USSD); Stage 1	S1	Yes
TS	22.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 1	S1	Yes
TS	22.093	Call Completion to Busy Subscriber (CCBS); Stage 1	S1	Yes
TS	22.094	Follow Me Stage 1	S1	Yes
TS	22.096	Calling Name Presentation (CNAP); Stage 1 (T1P1)	S1	Yes
TS	22.097	Multiple Subscriber Profile (MSP); Stage 1	S1	Yes
TS	22.100	UMTS Phase 1	S1	Yes
TS	22.101	UMTS Service principles	S1	Yes
TS	22.105	Services & Service capabilities	S1	Yes
TS	22.115	Service Aspects Charging and billing	S1	Yes
TS	22.121	Provision of Services in UMTS - The Virtual Home Environment	S1	Yes
TS	22.129	Handover Requirements between UMTS and GSM or other Radio Systems	S1	Yes
TS	22.135	Multicall Stage 1	S1	Yes
TS	22.140	Multimedia Messaging Service Stage 1	S1	Yes
TR	22.945	Study of provision of fax service in GSM and UMTS	T2/SMG03	Yes
TR	22.971	Automatic establishment of roaming relationships	S1	Yes
TR	22.975	Advanced addressing	S1	Yes
TS	23.002	Network Architecture	S2	Yes
TS	23.003	Numbering, Addressing and Identification	N2B	Yes
TS	23.007	Restoration procedures	N2B	Yes
TS	23.008	Organisation of subscriber data	N2B	Yes
TS	23.009	Handover procedures	N1	Yes
TS	23.011	Technical Realization of Supplementary Services - General Aspects	NSS	Yes
TS	23.012	Location management procedures	N2B	Yes
TS	23.014	Support of Dual Tone Multi Frequency (DTMF) signalling	N1	Yes
TS	23.015	Technical realisation of Operator Determined Barring (ODB)	N2B	Yes
TS	23.016	Subscriber data management - Stage 2	N2B	Yes
TS	23.018	Basic Call Handling - Technical realisation	N2B	Yes

Type	Number	Title	WG	For publication
TS	23.032	Universal Geographical Area Description (GAD)	S2	Yes
TS	23.034	High Speed Circuit Switched Data (HSCSD) - Stage 2	N1	Yes
TS	23.038	Alphabets & Language	T2	Yes
TR	23.039	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	T2	Yes
TS	23.040	Technical realisation of Short Message Service	T2	Yes
TS	23.041	Technical Realization of Cell Broadcast Service	T2	Yes
TS	23.042	Compression algorithm for SMS	T2	Yes
TS	23.046	Technical realisation of facsimile Group 3 service - non-transparent		Yes
TS	23.054	Shared Interworking Functions - Stage 2	N3	Yes
TS	23.057	Mobile Station Application Execution Environment (MExE)	T2	Yes
TS	23.060	General Packet Radio Service (GPRS) Service description; Stage 2	S2	Yes
TS	23.066	Support of GSM Mobile Number Portability (MNP) stage 2	N2B	Yes
TS	23.067	Enhanced Multi-Level Precedence and Preemption Service (EMLPP) - Stage 2	NSS	Yes
TS	23.072	Call Deflection Supplementary Service - Stage 2	NSS	Yes
TS	23.073	Support of Localised Service Area (SoLSA) - Stage 2	NSS	Yes
TS	23.078	CAMEL Stage 2	N2A	Yes
TS	23.079	Support of Optical Routeing - Phase 1 - Stage 2	N2B	Yes
TS	23.081	Line Identification Supplementary Services - Stage 2	NSS	Yes
TS	23.082	Call Forwarding (CF) Supplementary Services - Stage 2	NSS	Yes
TS	23.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service - Stage 2	NSS	Yes
TS	23.084	MultiParty (MPTY) Supplementary Service - Stage 2	NSS	Yes
TS	23.085	Closed User Group (CUG) Supplementary Service - Stage 2	NSS	Yes
TS	23.086	Advice of Charge (AoC) Supplementary Service - Stage 2	NSS	Yes
TS	23.087	User-to-User Signalling (UUS) - Stage 2	NSS	Yes
TS	23.088	Call Barring (CB) Supplementary Service - Stage 2	NSS	Yes
TS	23.090	Unstructured Supplementary Service Data (USSD) - Stage 2	NSS	Yes
TS	23.091	Explicit Call Transfer (ECT) Supplementary Service - Stage 2	NSS	Yes
TS	23.093	Call Completion to Busy Subscriber (CCBS) - Stage 2	NSS	Yes
TS	23.094	Follow Me Stage 2	CN	Yes
TS	23.096	Name Identification Supplementary Service - Stage 2	NSS	Yes
TS	23.097	Multiple Subscriber Profile (MSP); Stage 2	NSS	Yes
TS	23.101	General UMTS Architecture	S2	Yes
TS	23.107	Quality of Service, Concept and Architecture	S2	Yes
TS	23.108	Mobile Radio Interface Layer 3 specification Core Network Protocols stage 2 (structured procedures)	N1	Yes
TS	23.110	UMTS Access Stratum Services and Functions	S2	Yes
TS	23.116	Super Charger - Stage 2	N2B	Yes
TS	23.119	Gateway Location Register (GLR) - Stage2	N2B	Yes
TS	23.121	Architecture Requirements for release 99	S2	Yes
TS	23.122	Non Access Stratum functions related to Mobile Station (MS) in idle mode	N1	Yes
TS	23.127	Virtual Home Environment / Open Service Architecture	S2	Yes
TS	23.135	Multicall Stage 2	NSS	Yes
TS	23.140	Multimedia Messaging Service (MMS)	T2	Yes
TS	23.153	Out of Band Transcoder Control - Stage 2	N2B	Yes
TS	23.171	Functional stage 2 description of location services in UMTS	S2	Yes
TR	23.814	Separating RR and MM specific parts of the MS Classmark	N1	No
TR	23.908	Technical report on Pre-Paging	N2B	Yes
TR	23.909	Technical report on the Gateway Location Register	N2B	Yes
TR	23.910	Circuit Switched Data Bearer Services	N3	Yes
TR	23.911	Technical report on Out-of-band transcoder control	N2	Yes
TR	23.912	Technical report on Super-Charger	N2	Yes
TR	23.922	Architecture for an All IP network	S2	Yes
TR	23.923	Combined GSM and Mobile IP mobility handling in UMTS IP CN	S2	Yes
TR	23.925	UMTS Core network based ATM transport	S2	Yes
TR	23.930	Iu Principles	S2	Yes
TR	23.972	Circuit Switched Multimedia Telephony	N1	Yes
TS	24.002	Public Land Mobile Network (PLMN) Access Reference Configuration	N1	Yes

Type	Number	Title	WG	For publication
TS	24.007	Mobile Radio Interface Signalling Layer 3 - General Aspects	N1	Yes
TS	24.008	Mobile Radio Interface Layer 3 specification; Core Network Protocols - Stage 3	N1	Yes
TS	24.010	Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects	NSS	Yes
TS	24.011	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	N1 / T2	Yes
TS	24.012	Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface	N2B / T2	Yes
TS	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	Yes
TS	24.030	Location Services LCS Stage 3 SS (MO-LR)	CN / SMG 03	Yes
TS	24.067	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP) - Stage 3	NSS	Yes
TS	24.072	Call Deflection Supplementary Service - Stage 3	NSS	Yes
TS	24.080	Mobile radio Layer 3 Supplementary Service specification - Formats and coding	NSS	Yes
TS	24.081	Line Identification Supplementary Service - Stage 3	NSS	Yes
TS	24.082	Call Forwarding Supplementary Service - Stage 3	NSS	Yes
TS	24.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service - Stage 3	NSS	Yes
TS	24.084	MultiParty (MPTY) Supplementary Service - Stage 3	NSS	Yes
TS	24.085	Closed User Group (CUG) Supplementary Service - Stage 3	NSS	Yes
TS	24.086	Advice of Charge (AoC) Supplementary Service - Stage 3	NSS	Yes
TS	24.087	User-to-User Signalling (UUS) - Stage 3	NSS	Yes
TS	24.088	Call Barring (CB) Supplementary Service - Stage 3	NSS	Yes
TS	24.090	Unstructured Supplementary Service Data (USSD) - Stage 3	NSS	Yes
TS	24.091	Explicit Call Transfer (ECT) Supplementary Service - Stage 3	NSS	Yes
TS	24.093	Call Completion to Busy Subscriber (CCBS) - Stage 3	NSS	Yes
TS	24.096	Name Identification Supplementary Service - Stage 3	NSS	Yes
TS	24.135	Multicall Stage 3	NSS	Yes
TS	25.053	Tandem Free Operation (TFO); Service description; Stage 2		Yes
TS	25.101	UE Radio transmission and reception (FDD)	R4	Yes
TS	25.102	UE Radio transmission and reception (TDD)	R4	Yes
TS	25.104	UTRA (BS) FDD; Radio transmission and reception	R4	Yes
TS	25.105	UTRA (BS) TDD: Radio transmission and reception	R4	Yes
TS	25.113	Base station EMC	R4	Yes
TS	25.123	Requirements for support of radio resource management (TDD)	R4	Yes
TS	25.133	Requirements for support of radio resource management (FDD)	R4	Yes
TS	25.141	Base station conformance testing (FDD)	R4	Yes
TS	25.142	Base station conformance testing (TDD)	R4	Yes
TS	25.201	Physical layer -General Description	R1	Yes
TS	25.211	Physical channels and mapping of transport channels onto physical channels (FDD)	R1	Yes
TS	25.212	Multiplexing and channel coding (FDD)	R1	Yes
TS	25.213	Spreading and modulation (FDD)	R1	Yes
TS	25.214	Physical layer procedures (FDD)	R1	Yes
TS	25.215	Physical layer; Measurements (FDD)	R1	Yes
TS	25.221	Physical channels and mapping of transport channels onto physical channels (TDD)	R1	Yes
TS	25.222	Multiplexing and channel coding (TDD)	R1	Yes
TS	25.223	Spreading and modulation (TDD)	R1	Yes
TS	25.224	Pphysical layer procedures (TDD)	R1	Yes
TS	25.225	Physical layer; Measurements (TDD)	R1	Yes
TS	25.301	Radio Interface Protocol Architecture	R2	Yes
TS	25.302	Services provided by the physical layer	R2	Yes
TS	25.303	UE functions and inter-layer procedures in connected mode	R2	Yes
TS	25.304	UE Procedures in Idle Mode and Procedures for Cell Reselection in	R2	Yes

Type	Number	Title	WG	For publication
		Connected Mode		
TS	25.305	Stage 2 Functional Specification of Location Services in UTRAN (LCS)	R2	Yes
TS	25.321	Medium Access Control (MAC) Protocol Specification	R2	Yes
TS	25.322	Radio Link Control (RLC) Protocol Specification	R2	Yes
TS	25.323	Packet Data Convergence Protocol (PDCP) protocol	R2	Yes
TS	25.324	Radio Interface for Broadcast/Multicast Services	R2	Yes
TS	25.331	Radio Resource Control (RRC) Protocol Specification	R2	Yes
TS	25.401	UTRAN Overall Description	R3	Yes
TS	25.402	Synchronisation in UTRAN Stage 2	R3	Yes
TS	25.410	UTRAN Iu Interface: General Aspects and Principles	R3	Yes
TS	25.411	UTRAN Iu interface Layer 1	R3	Yes
TS	25.412	UTRAN Iu interface signalling transport	R3	Yes
TS	25.413	UTRAN Iu interface RANAP signalling	R3	Yes
TS	25.414	UTRAN Iu interface data transport & transport signalling	R3	Yes
TS	25.415	UTRAN Iu interface user plane protocols	R3	Yes
TS	25.419	UTRAN Iu interface: Cell broadcast protocols between SMS-CBC and RNC	R3	Yes
TS	25.420	UTRAN Iur Interface: General Aspects and Principles	R3	Yes
TS	25.421	UTRAN Iur interface Layer 1	R3	Yes
TS	25.422	UTRAN Iur interface signalling transport	R3	Yes
TS	25.423	UTRAN Iur interface RNSAP signalling	R3	Yes
TS	25.424	UTRAN Iur interface data transport & transport signalling for CCH data streams	R3	Yes
TS	25.425	UTRAN Iur interface user plane protocols for CCH data streams	R3	Yes
TS	25.426	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	R3	Yes
TS	25.427	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3	Yes
TS	25.430	UTRAN Iub Interface: General Aspects and Principles	R3	Yes
TS	25.431	UTRAN Iub interface Layer 1	R3	Yes
TS	25.432	UTRAN Iub interface signalling transport	R3	Yes
TS	25.433	UTRAN Iub interface NBAP signalling	R3	Yes
TS	25.434	UTRAN Iub interface data transport & transport signalling for CCH data streams	R3	Yes
TS	25.435	UTRAN Iub interface user plane protocols for CCH data streams	R3	Yes
TS	25.442	UTRAN Implementation Specific O&M Transport	R3	No
TR	25.831	Study Items for future release	R3	No
TR	25.832	Manifestations of Handover and SRNS relocation	R3	No
TR	25.833	Physical layer items not for inclusion in Release 99	R1	No
TR	25.921	Guidelines and principles for protocol description and error handling	R2	Yes
TR	25.922	Radio Resource Management Strategies	R2	Yes
TR	25.924	Opportunity Driven Multiple Access (ODMA)	R2	Yes
TR	25.925	Radio Interface for Broadcast/Multicast Services	R2	Yes
TR	25.926	UE Radio Access capabilities definition	R2	Yes
TR	25.928	1,28Mcps UTRA TDD Physical Layer	R1	Yes
TR	25.931	UTRAN Functions, examples on signalling procedures	R3	Yes
TR	25.941	Document structure	R4	Yes
TR	25.942	RF system scenarios	R4	Yes
TR	25.943	Deployment aspects	R4	Yes
TR	25.944	Channel coding and multiplexing examples	R1	Yes
TR	25.990	Vocabulary for UTRAN	R4	Yes
TS	26.071	AMR speech Codec; General description	S4	Yes
TS	26.073	AMR speech Codec; C-source code	S4	Yes
TS	26.074	AMR speech Codec; Test sequences	S4	Yes
TS	26.090	AMR speech Codec; Transcoding Functions	S4	Yes
TS	26.091	AMR speech Codec; Error concealment of lost frames	S4	Yes
TS	26.092	AMR speech Codec; comfort noise for AMR Speech Traffic Channels	S4	Yes
TS	26.093	AMR speech Codec; Source Controlled Rate operation	S4	Yes
TS	26.094	AMR Speech Codec; Voice Activity Detector for AMR Speech Traffic Channels	S4	Yes
TS	26.101	AMR speech Codec; Frame Structure	S4	Yes

Type	Number	Title	WG	For publication
TS	26.102	AMR speech Codec; Interface to Iu and Uu	S4	Yes
TS	26.103	Codec lists	S4	Yes
TS	26.104	AMR speech Codec; Floating point C-Code	S4	Yes
TS	26.110	Codec for Circuit switched Multimedia Telephony Service; General Description	S4	Yes
TS	26.111	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	S4	Yes
TS	26.131	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Characteristics	S4	Yes
TS	26.132	Narrow Band (3,1kHz) Speech & Video Telephony Terminal Acoustic Test Specification.	S4	Yes
TR	26.911	Codec for Circuit switched Multimedia Telephony Service;Terminal Implementor's Guide	S4	Yes
TR	26.912	Codec for Circuit switched Multimedia Telephony Service; Quantitative performance evaluation of H.324 Annex C over 3G	S4	Yes
TR	26.913	Quantitative performance evaluation of real-time packet switched multimedia services over 3G	S4	Yes
TR	26.915	QoS for Speech and Multimedia Codec; Quantitative performance evaluation of real-time packet switched multimedia services over 3G	S4	Yes
TR	26.975	Performance characterization of the AMR speech codec	S4	Yes
TS	27.001	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	N3	Yes
TS	27.002	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	N3	Yes
TS	27.003	Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities	N3	Yes
TS	27.005	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	T2	Yes
TS	27.007	AT command set for 3G User Equipment (UE)	T2	Yes
TS	27.010	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol User Equipment (UE)	T2	Yes
TS	27.060	GPRS Mobile Stations supporting GPRS	N3	Yes
TS	27.103	Wide Area Network Synchronisation	T2	Yes
TR	27.901	Report on Terminal Interfaces - An Overview	T2	Yes
TR	27.903	Discussion of Synchronisation Standards	T2	Yes
TS	29.002	Mobile Application Part (MAP)	N2B	Yes
TS	29.007	General requirements on Interworking between the PLMN and the ISDN or PSTN	N3	Yes
TS	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)	N2B	Yes
TS	29.011	Signalling Interworking for Supplementary Services	NSS	Yes
TS	29.013	Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols	NSS	Yes
TS	29.016	Serving GPRS Support Mode SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification	N1	Yes
TS	29.018	Serving GPRS Support Mode SGSN - Visitors Location Register (VLR); Gs Interface Layer 3 Specification	N1	Yes
TS	29.060	GPRS Tunnelling protocol (GTP) across the Gn and Gp interface	N2B	Yes
TS	29.061	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet	N3	Yes
TS	29.078	CAMEL; Stage 3	N2A	Yes
TS	29.119	GPRS Tunnelling Protocol (GTP) specification for Gateway Location Register (GLR)	N2B	Yes
TS	29.120	Mobile Application Part (MAP) specification for Gateway Location Register (GLR); stage 3	N2B	Yes
TR	29.198	Open Services Architecture API part 1	CN	Yes
TR	29.998	Open Services Architecture API part 2	CN	Yes
TR	30.504	Work Plan and Study Items - RAN WG4	R4	No

Type	Number	Title	WG	For publication
TR	30.531	Work Plan and Study Items - RAN WG3	R3	No
TR	30.801	Overall Project Plan	S2	No
TR	30.802	Project plan on Bearer Services and QoS	S2	No
TR	30.804	Project plan on GSM/UMTS Interoperation and Mobility Management	S2	No
TR	30.806	Project plan on Location based services	S2	No
TR	30.808	Project plan on Packet Architecture and Circuit Architecture	S2	No
TR	30.810	Project plan on Security	S2	No
TR	30.812	Project plan on Services and Service platforms	S2	No
TS	31.101	UICC-terminal interface; Physical and logical characteristics	T3	Yes
TS	31.102	Characteristics of the USIM Application	T3	Yes
TS	31.110	Numbering system for telecommunication IC card applications	T3	Yes
TS	31.111	USIM Application Toolkit (USAT)	T3	Yes
TS	31.120	Terminal tests for the UICC Interface	T3	Yes
TS	31.121	UICC Test Specification	T3	Yes
TS	32.005	GSM call and event data for the Circuit Switched (CS) domain	S5	Yes
TS	32.008	Subscriber and Equipment trace	S5	Yes
TS	32.015	GSM Charging Packet Switched (PS) domain	S5	Yes
TS	32.101	3G Telecom Management principles and high level requirements	S5	Yes
TS	32.102	3G Telecom Management Architecture	S5	Yes
TS	32.104	3G Performance Management	S5	Yes
TS	32.105	3G Charging call event data	S5	Yes
TS	32.106	3G Configuration Management	S5	Yes
TS	32.111	3G Fault Management	S5	Yes
TS	33.102	Security Architecture	S3	Yes
TS	33.103	Security Integration Guidelines	S3	Yes
TS	33.105	Cryptographic Algorithm requirements	S3	Yes
TS	33.106	Lawful interception requirements	S3	Yes
TS	33.107	Lawful interception architecture and functions	S3	Yes
TS	33.120	Security Objectives and Principles	S3	Yes
TR	33.900	Guide to 3G security	S3	Yes
TR	33.901	Criteria for cryptographic Algorithm design process	S3	Yes
TR	33.902	Formal Analysis of the 3G Authentication Protocol	S3	Yes
TS	34.108	Common Test Environments for User Equipment (UE) Conformance Testing	T1	Yes
TS	34.109	Logical Test Interface (TDD and FDD)	T1 / R2	Yes
TS	34.121	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	T1	Yes
TS	34.122	Terminal Conformance Specification, Radio Transmission and Reception (TDD)	T1	Yes
TS	34.123-1	UE Conformance Specification, Part 1 – Conformance specification	T1	Yes
TS	34.123-2	UE Conformance Specification, Part 2 – ICS	T1	Yes
TS	34.123-3	UE Conformance Specification, Part 3 – Abstract Test suites	T1	Yes
TS	34.124	Electro-Magnetic Compatibility (EMC) for Terminal equipment - stage 1	T1	Yes
TR	34.907	Report on electrical safety requirements and regulations	T2	Yes
TR	34.925	Specific Absorption Rate (SAR) requirements and regulations in different regions	T2	Yes
TS	35.201	Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications	S3	Yes
TS	35.202	Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi algorithm specification	S3	Yes
TS	35.203	Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data	S3	Yes
TS	35.204	Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data	S3	Yes

Annex A (informative): Model for the technical management and project co-ordination for 3GPP Release 2000

The model is thought as a reference model for structuring the work. It is redlistt the intention to rigorously enforce the usage of the model on all ongoing work, but merely to use it as the common reference model across the TSGs and to structure future work.

TSG SA is through S1 responsible for defining the features and services required in the 3GPP specifications. S1 is responsible of producing the stage 1 descriptions (requirements) for the relevant features and passing them to S2. S1 can also forward their considerations on possible architecture and implementation to S2, but is redlistt responsible for this part of the work.

S2 should then define the architecture for the features and the system, and then divide the features into building blocks based on the architectural decisions made in S2. S2 will then forward the building blocks to the relevant TSGs for the detailed work. These proposals will be reviewed and discussed in an interactive way together with TSGs/WGs, until a common understanding of the required work is reached. During the detailed the work of the TSGs and their working groups, S2 is kept informed about the progress.

The TSGs and their WGs treats the building block as one or several dedicated Work Tasks (WT). Typical output of a given Work Task would be new specification(s), updated specification(s), technical report(s) or the conclusion that the necessary support already is provided in the existing specifications.

S2's role is in corporation with the TSGs and their WGs to identify if synergy can be obtained by using some of the building blocks or extended building blocks for more than one feature. Part of S2's task is to verify that all required work for a full system specification of the features relevant will take place within 3GPP without overlap between groups. In order for S2 to be successful, this has to be done in co-operation with other TSGs/WGs.

The following guidelines are proposed for project scheduling. S1sets a target, S2 performs a first technical review and comments on the target. S2 indicates target for time schedule together with allocation of the defined building blocks. The TSGs and their WGs comment back on these targets. S2 tries if necessary to align the new target between the involved parties. S1 and SA is kept informed on the overall schedule.

It is the task of TSG SA, S1 and S2 to ensure early involvement of S3 to ensure that the potential security requirements, service requirements and the architectural requirements are aligned and communicated to the TSGs and their WGs.

In order for TSG T and its subgroups to plan and perform their horizontal tasks on conformance testing and mobile station capabilities, S2 should invite TSG T to evaluate the potential impact of a new feature. If work on the horizontal task are required this should be included in the overall work plan.

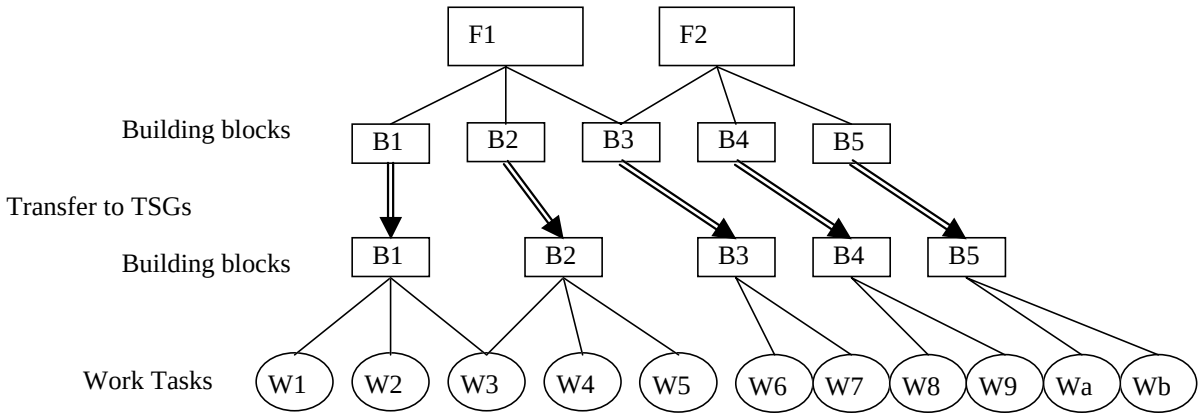


Figure A.1

Annex B (informative): Document change history

Date	Version	Information about changes
August 1999	version 0.0.0	1st 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
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 (incomplete) and comments included
September 1999	version 0.2.0	03.41 transferred T2/SMG4 and S2 new specs and reports
October 1999	version 0.3.0	Editorial changes and addition of new specifications and reports identified in WGs
October 1999	version 1.0.0	Reviewed by TSG CN, T and RAN #5 changes implemented and raised to V1.0.0 for information to TSG SA
Redlistvember 1999	version 1.1.0	Updated after decisions of TSG SA#5
Redlistvember 1999	version 1.2.0	Updated to align with GSM 01.01 after SMG#30
December 1999	version	review by SA2
December 1999	version 2.0.0	Presented to TSG#6 for approval. Cause 5 considered unstable and should deleted and re-introduced at TSG#5.
December 1999	version 2.1.0	Clause 5 removed, specs list updated following TSG SA decisions. Presented for e-mail approval.
January 2000	version 2.2.0	Changes resulting from comments made during e-mail approval.
March 2000	version 2.3.0	Original clause 5 ("Content of 3G Release 1999") removed. Original clause 6 renumbered to 5. List of specifications in new clause 5 brought up to date. Submitted to TSG-SA #7.
March 2000	Version 2.4.0	Update of list in view of items presented to TSGs N, R and T #7 for approval.
March 2000	Version 2.5.0	Further update of list in view of items presented to TSGs N, R and T #7 for approval. Subclause 4.2.15 for 35-series added.
March 2000	Version 2.6.0 = 3.0.0	Minor changes notified after SA#7 before deadline 21 March 2000.

Change history					
TSG SA #	Version	CR	Tdoc SA	New Version	Subject/Comment
SA#7				3.0.0	Approved following TSG SA #7 and placed under change control.
March 2000	3.0.0			3.0.1	Cosmetic edits

History

Document history		
V3.0.1	March 2000	Publication