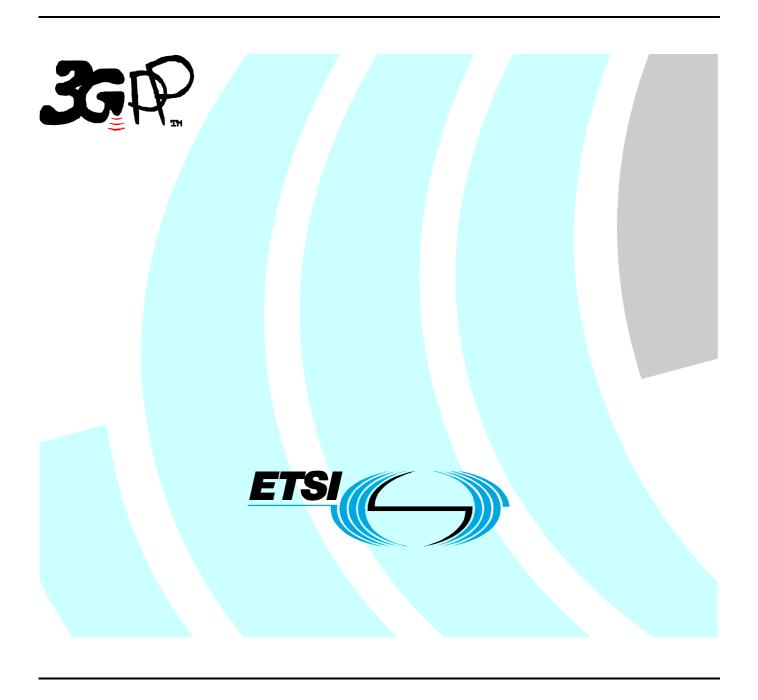# ETSI TS 121 101 V3.17.0 (2008-01)

Technical Specification

**Universal Mobile Telecommunications System (UMTS);
Technical Specifications and Technical Reports
for a UTRAN-based 3GPP system
(3GPP TS 21.101 version 3.17.0 Release 1999)**

Reference

RTS/TSGS-0021101v3h0

Keywords

UMTS

ETSI

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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 http://webapp.etsi.org/key/queryform.asp.

Contents

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 3GPP system specifications for Release 1999. The specifications and reports of 3GPP Release 1999 have a major version number 3 (i.e. 3.x.y). The listed Specifications are required to build a system based on UTRAN radio technology.

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]   GSM 01.01: "GSM Release 1999 Specifications".

3   Abbreviations

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 apply.

4   General

4.1   Specification and report numbering

The numbering scheme for specifications is described in 3GPP TR 21.900.

4.2   (void)

5   Specifications and Reports of 3G Release 1999

NOTE 1: (void)

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: Some of 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 prime	For publication?
TS	21.101	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	SP	Yes
TS	21.111	USIM and IC card requirements	C6	Yes
TS	21.133	3G security; Security threats and requirements	S3	Yes
TR	21.801	Specification drafting rules	SP	No
TR	21.900	Technical Specification Group working methods	SP	Yes
TR	21.904	User Equipment (UE) capability requirements	C1	Yes
TR	21.905	Vocabulary for 3GPP Specifications	S1	Yes
TR	21.910	Multi-mode UE issues; categories, principles and procedures	C1	Yes
TR	21.978	Feasibility Technical Report; CAMEL Control of VoIP Services	C4	Yes
TS	22.001	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)	S1	Yes
TS	22.002	Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN)	S1	Yes
TS	22.003	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	S1	Yes
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 Mobile Equipment (ME); Mobile functionality specification	S3	Yes
TS	22.024	Description of Charge Advice Information (CAI)	S1	Yes
TS	22.030	Man-Machine Interface (MMI) of the User Equipment (UE)	S1	Yes
TS	22.031	Fraud Information Gathering System (FIGS); Service description; Stage 1	S3	Yes
TS	22.032	Immediate Service Termination (IST); Service description; Stage 1	S3	Yes
TS	22.034	High Speed Circuit Switched Data (HSCSD); Stage 1	S1	Yes
TS	22.038	USIM Application Toolkit (USAT/SAT); Service description; Stage 1	S1	Yes
TS	22.041	Operator Determined Call Barring	S1	Yes
TS	22.042	Network Identity and Time Zone (NITZ) service description; Stage 1	S1	Yes
TS	22.057	Mobile Execution Environment (MExE) service description; Stage 1	S1	Yes
TS	22.060	General Packet Radio Service (GPRS); Service description; 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); Service description; Stage 1	S1	Yes
TS	22.072	Call Deflection (CD); Stage 1	S1	Yes
TS	22.078	Customized Applications for Mobile network Enhanced Logic (CAMEL); Service description; Stage 1	S1	Yes
TS	22.079	Support of optimal routeing; 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	Completion of Calls to Busy Subscriber (CCBS); Service description, Stage 1	S1	Yes
TS	22.094	Follow Me service description - Stage 1	S1	Yes
TS	22.096	Name identification supplementary services; Stage 1	S1	Yes
TS	22.097	Multiple Subscriber Profile (MSP) Phase 2; Service description; Stage 1	S1	Yes
TS	22.100	UMTS Phase 1	S1	Yes

Type	Number	Title	WG prime	For publication?
TS	22.101	Service aspects; Service principles	S1	Yes
TS	22.105	Services and service capabilities	S1	Yes
TS	22.115	Service aspects; Charging and billing	S1	Yes
TR	22.121	Service aspects; The Virtual Home Environment (VHE); Stage 1	S1	Yes
TS	22.129	Handover requirements between UTRAN and GERAN or other radio systems	S1	Yes
TS	22.135	Multicall; Service description; Stage 1	S1	Yes
TS	22.140	Multimedia Messaging Service (MMS); Stage 1	S1	Yes
TR	22.945	Study of provision of fax service in GSM and UMTS	C3	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	C4	Yes
TS	23.007	Restoration procedures	C4	Yes
TS	23.008	Organization of subscriber data	C4	Yes
TS	23.009	Handover procedures	C1	Yes
TS	23.011	Technical realization of Supplementary Services	C4	Yes
TS	23.012	Location management procedures	C4	Yes
TS	23.014	Support of Dual Tone Multi Frequency (DTMF) signalling	C1	Yes
TS	23.015	Technical realization of Operator Determined Barring (ODB)	C4	Yes
TS	23.016	Subscriber data management; Stage 2	C4	Yes
TS	23.018	Basic Call Handling; Technical realization	C4	Yes
TS	23.031	Fraud Information Gathering System (FIGS); Service description; Stage 2	S3	Yes
TS	23.032	Universal Geographical Area Description (GAD)	S2	Yes
TS	23.034	High Speed Circuit Switched Data (HSCSD); Stage 2	C1	Yes
TS	23.035	Immediate Service Termination (IST); Stage 2	S3	Yes
TS	23.038	Alphabets and language-specific information	C1	Yes
TR	23.039	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	C1	Yes
TS	23.040	Technical realization of Short Message Service (SMS)	C1	Yes
TS	23.041	Technical realization of Cell Broadcast Service (CBS)	C1	Yes
TS	23.042	Compression algorithm for SMS	C1	Yes
TS	23.057	Mobile Execution Environment (MExE); Functional description; Stage 2	S2	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	C4	Yes
TS	23.067	Enhanced Multi-Level Precedence and Pre-emption Service (eMLPP); Stage 2	C4	Yes
TS	23.072	Call Deflection Supplementary Service; Stage 2	C4	Yes
TS	23.078	Customized Applications for Mobile network Enhanced Logic (CAMEL) Phase X; Stage 2	C4	Yes
TS	23.079	Support of Optimal Routeing (SOR); Technical realization	C4	Yes
TS	23.081	Line Identification supplementary services; Stage 2	C4	Yes
TS	23.082	Call Forwarding (CF) Supplementary Services; Stage 2	C4	Yes
TS	23.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 2	C4	Yes
TS	23.084	MultiParty (MPTY) Supplementary Service; Stage 2	C4	Yes
TS	23.085	Closed User Group (CUG) Supplementary Service; Stage 2	C4	Yes
TS	23.086	Advice of Charge (AoC) Supplementary Service; Stage 2	C4	Yes
TS	23.087	User-to-User Signalling (UUS) supplementary service; Stage 2	C4	Yes
TS	23.088	Call Barring (CB) Supplementary Service; Stage 2	C4	Yes
TS	23.090	Unstructured Supplementary Service Data (USSD); Stage 2	C4	Yes
TS	23.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 2	C4	Yes
TS	23.093	Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2	C4	Yes
TS	23.094	Follow Me Stage 2	C4	Yes
TS	23.096	Name identification supplementary service; Stage 2	C4	Yes

Type	Number	Title	WG prime	For publication?
TS	23.097	Multiple Subscriber Profile (MSP) Phase 1; Stage 2	C4	Yes
TS	23.101	General UMTS Architecture	S2	Yes
TS	23.107	Quality of Service (QoS) concept and architecture	S2	Yes
TS	23.108	Mobile radio interface layer 3 specification core network protocols; Stage 2 (structured procedures)	C1	Yes
TS	23.110	UMTS Access Stratum Services and Functions	S2	Yes
TS	23.116	Super-Charger technical realization; Stage 2	C4	Yes
TS	23.119	Gateway Location Register (GLR); Stage2	C4	Yes
TS	23.121	Architectural requirements for Release 1999	S2	Yes
TS	23.122	Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode	C1	Yes
TS	23.127	Virtual Home Environment (VHE) / Open Service Access (OSA)	S2	Yes
TS	23.135	Multicall supplementary service; Stage 2	C4	Yes
TS	23.140	Multimedia Messaging Service (MMS); Functional description; Stage 2	CP	Yes
TS	23.171	Location Services (LCS); Functional description; Stage 2 (UMTS)	S2	Yes
TR	23.814	Separating RR and MM specific parts of the MS Classmark	C1	No
TR	23.908	Technical report on Pre-Paging	C4	Yes
TR	23.909	Technical report on the Gateway Location Register	C4	Yes
TR	23.910	Circuit switched data bearer services	C3	Yes
TR	23.911	Technical report on Out-of-band transcoder control	C4	Yes
TR	23.912	Technical report on Super-Charger	C4	Yes
TR	23.923	Combined GSM and Mobile IP mobility handling in UMTS IP CN	S2	Yes
TR	23.930	Iu principles	S2	Yes
TR	23.972	Circuit switched multimedia telephony	C1	Yes
TS	24.002	GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration	C1	Yes
TS	24.007	Mobile radio interface signalling layer 3; General Aspects	C1	Yes
TS	24.008	Mobile radio interface Layer 3 specification; Core network protocols; Stage 3	C1	Yes
TS	24.010	Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects	C4	Yes
TS	24.011	Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface	C1	Yes
TS	24.022	Radio Link Protocol (RLP) for circuit switched bearer and teleservices	C3	Yes
TS	24.030	Location Services (LCS); Supplementary service operations; Stage 3	C4	Yes
TS	24.067	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3	C4	Yes
TS	24.072	Call Deflection Supplementary Service; Stage 3	C4	Yes
TS	24.080	Mobile radio Layer 3 supplementary service specification; Formats and coding	C4	Yes
TS	24.081	Line Identification Supplementary Service; Stage 3	C4	Yes
TS	24.082	Call Forwarding supplementary service; Stage 3	C4	Yes
TS	24.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3	C4	Yes
TS	24.084	MultiParty (MPTY) Supplementary Service; Stage 3	C4	Yes
TS	24.085	Closed User Group (CUG) Supplementary Service; Stage 3	C4	Yes
TS	24.086	Advice of Charge (AoC) Supplementary Service; Stage 3	C4	Yes
TS	24.087	User-to-User Signalling (UUS); Stage 3	C4	Yes
TS	24.088	Call Barring (CB) Supplementary Service; Stage 3	C4	Yes
TS	24.090	Unstructured Supplementary Service Data (USSD); Stage 3	C4	Yes
TS	24.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 3	C4	Yes
TS	24.093	Call Completion to Busy Subscriber (CCBS); Stage 3	C4	Yes
TS	24.096	Name Identification Supplementary Service; Stage 3	C4	Yes
TS	24.135	Multicall supplementary service; Stage 3	C4	Yes
TS	25.101	User Equipment (UE) radio transmission and reception (FDD)	R4	Yes
TS	25.102	User Equipment (UE) radio transmission and reception (TDD)	R4	Yes
TS	25.104	Base Station (BS) radio transmission and reception (FDD)	R4	Yes

Type	Number	Title	WG prime	For publication?
TS	25.105	Base Station (BS) radio transmission and reception (TDD)	R4	Yes
TS	25.113	Base station and repeater electromagnetic compatibility (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 (BS) conformance testing (FDD)	R4	Yes
TS	25.142	Base Station (BS) 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	Physical 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	Interlayer procedures in Connected Mode	R2	Yes
TS	25.304	User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode	R2	Yes
TS	25.305	User Equipment (UE) positioning in Universal Terrestrial Radio Access Network (UTRAN); Stage 2	R2	Yes
TS	25.306	UE Radio Access capabilities	R2	Yes
TS	25.307	Requirements on User Equipments (UEs) supporting a release-independent frequency band	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) specification	R2	Yes
TS	25.324	Broadcast/Multicast Control (BMC)	R2	Yes
TS	25.331	Radio Resource Control (RRC); Protocol specification	R2	Yes
TS	25.401	UTRAN overall description	R3	Yes
TS	25.402	Synchronization 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 Radio Access Network Application Part (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-BC interface: Service Area Broadcast Protocol (SABP)	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 Radio Network Subsystem Application Part (RNSAP) signalling	R3	Yes
TS	25.424	UTRAN Iur interface data transport & transport signalling for Common Transport Channel data streams	R3	Yes
TS	25.425	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	R3	Yes
TS	25.426	UTRAN Iur and Iub interface data transport & transport signalling for DCH data	R3	Yes

Type	Number	Title	WG prime	For publication?
		streams		
TS	25.427	UTRAN Iur/Iub interface user plane protocol 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 Node B Application Part (NBAP) signalling	R3	Yes
TS	25.434	UTRAN Iub interface data transport and transport signalling for Common Transport Channel data streams	R3	Yes
TS	25.435	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	R3	Yes
TS	25.442	UTRAN implementation-specific O&M transport	R3	Yes
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	25.853	Delay budget within the access stratum	R3	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	25.925	Radio Interface for Broadcast/Multicast Services	R2	Yes
TR	25.931	UTRAN functions, examples on signalling procedures	R3	Yes
TR	25.941	Document structure	R4	Yes
TR	25.942	Radio Frequency (RF) system scenarios	R4	Yes
TR	25.944	Channel coding and multiplexing examples	R1	Yes
TR	25.993	Typical examples of Radio Access Bearers (RABs) and Radio Bearers (RBs) supported by Universal Terrestrial Radio Access (UTRA)	R2	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	Mandatory speech codec speech processing functions Adaptive Multi-Rate (AMR) speech codec; Source controlled rate operation	S4	Yes
TS	26.094	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Voice Activity Detector (VAD)	S4	Yes
TS	26.101	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec frame structure	S4	Yes
TS	26.102	Mandatory speech codec; Adaptive Multi-Rate (AMR) speech codec; Interface to Iu, Uu and Nb	S4	Yes
TS	26.103	Speech codec list for GSM and UMTS	S4	Yes
TS	26.104	ANSI-C code for the floating-point Adaptive Multi-Rate (AMR) speech codec	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	Terminal acoustic characteristics for telephony; Requirements	S4	Yes
TS	26.132	Narrow band (3,1 kHz) speech and video telephony terminal acoustic test specification	S4	Yes
TR	26.911	Codec(s) for Circuit-Switched (CS) 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	26.915	Echo Control For Speech and Multi-Media Services	S4	Yes
TR	26.975	Performance characterization of the Adaptive Multi-Rate (AMR) speech codec	S4	Yes
TS	27.001	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	C3	Yes
TS	27.002	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	C3	Yes
TS	27.003	Terminal Adaptation Functions (TAF) for services using Synchronous bearer	C3	Yes

Type	Number	Title	WG prime	For publication?
		capabilities		
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)	C1	Yes
TS	27.007	AT command set for User Equipment (UE)	C1	Yes
TS	27.010	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	C3	Yes
TS	27.060	Packet domain; Mobile Station (MS) supporting Packet Switched services	C3	Yes
TS	27.103	Wide Area Network Synchronization	C1	Yes
TR	27.901	Report on Terminal Interfaces - An Overview	C3	Yes
TR	27.903	Discussion of synchronization standards	C1	Yes
TS	29.002	Mobile Application Part (MAP) specification	C4	Yes
TS	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)	C3	Yes
TS	29.010	Information element mapping between Mobile Station - Base Station System (MS - BSS) and Base Station System - Mobile-services Switching Centre (BSS - MSC); Signalling Procedures and the Mobile Application Part (MAP)	C4	Yes
TS	29.011	Signalling Interworking for Supplementary Services	C4	Yes
TS	29.013	Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols	C4	Yes
TS	29.016	Serving GPRS Support Node SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification	C1	Yes
TS	29.018	General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification	C1	Yes
TS	29.060	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface	C4	Yes
TS	29.061	Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)	C3	Yes
TS	29.078	Customized Applications for Mobile network Enhanced Logic (CAMEL) Phase X; CAMEL Application Part (CAP) specification	C4	Yes
TS	29.108	Application of the Radio Access Network Application Part (RANAP) on the E-interface	R3	Yes
TS	29.119	GPRS Tunnelling Protocol (GTP) specification for Gateway Location Register (GLR)	C4	Yes
TS	29.120	Mobile Application Part (MAP) specification for Gateway Location Register (GLR); Stage 3	C4	Yes
TS	29.198	Open Service Architecture (OSA) Application Programming Interface (API) - Part 1	C5	Yes
TR	29.994	Recommended infrastructure measures to overcome specific Mobile Station (MS) and User Equipment (UE) faults	C1	Yes
TR	29.998	Open Services Architecture (OSA) Application Programming Interface (API) part 2	C5	Yes
TS	31.101	UICC-terminal interface; Physical and logical characteristics	C6	Yes
TS	31.102	Characteristics of the Universal Subscriber Identity Module (USIM) application	C6	Yes
TS	31.110	Numbering system for telecommunication IC card applications	C6	Yes
TS	31.111	Universal Subscriber Identity Module (USIM) Application Toolkit (USAT)	C6	Yes
TS	31.120	UICC-terminal interface; Physical, electrical and logical test specification	C6	Yes
TS	31.121	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	C6	Yes
TS	31.122	Universal Subscriber Identity Module (USIM) conformance test specification	C6	Yes
TS	31.124	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	C6	Yes
TR	31.900	SIM/USIM internal and external interworking aspects	C6	Yes
TS	32.005	Telecommunications management; Charging management; 3G call and event data for the Circuit Switched (CS) domain	S5	Yes
TS	32.015	Telecommunications management; Charging management; 3G call and event	S5	Yes

Type	Number	Title	WG prime	For publication?
		data for the Packet Switched (PS) domain		
TS	32.101	Telecommunication management; Principles and high level requirements	S5	Yes
TS	32.102	Telecommunication management; Architecture	S5	Yes
TS	32.104	Telecommunication management; 3G Performance Management	S5	Yes
TS	32.106-1	Telecommunication management; Configuration Management (CM); Part 1: Concept and requirements	S5	Yes
TS	32.106-2	Telecommunication management; Configuration Management (CM); Part 2: Notification Integration Reference Point (IRP): Information Service (IS)	S5	Yes
TS	32.106-3	Telecommunication management; Configuration Management (CM); Part 3: Notification Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes
TS	32.106-4	Telecommunication management; Configuration Management (CM); Part 4: Notification Integration Reference Point (IRP); Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes
TS	32.106-5	Telecommunication management; Configuration Management (CM); Part 5: Basic CM Integration Reference Point (IRP): Information model (including Network Resource Model (NRM)	S5	Yes
TS	32.106-6	Telecommunication management; Configuration Management (CM); Part 6: Basic CM Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes
TS	32.106-7	Telecommunication management; Configuration Management (CM); Part 7: Basic CM Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes
TS	32.106-8	Telecommunication management; Configuration Management (CM); Part 8: Name convention for Managed Objects	S5	Yes
TS	32.111-1	Telecommunication management; Fault Management; Part 1: 3G fault management requirements	S5	Yes
TS	32.111-2	Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point (IRP): Information Service (IS)	S5	Yes
TS	32.111-3	Telecommunication management; Fault Management; Part 3: Alarm Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes
TS	32.111-4	Telecommunication management; Fault Management; Part 4: Alarm Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes
TS	33.102	3G security; Security architecture	S3	Yes
TS	33.103	3G security; Integration guidelines	S3	Yes
TS	33.105	Cryptographic algorithm requirements	S3	Yes
TS	33.106	Lawful interception requirements	S3	Yes
TS	33.107	3G security; Lawful interception architecture and functions	S3	Yes
TS	33.120	Security Objectives and Principles	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
TR	33.908	3G Security; General report on the design, specification and evaluation of 3GPP standard confidentiality and integrity algorithms	S3	Yes
TS	34.108	Common test environments for User Equipment (UE); Conformance testing	R5	Yes
TS	34.109	Terminal logical test interface; Special conformance testing functions	R2	Yes
TS	34.121	Terminal conformance specification, Radio transmission and reception (FDD)	R5	Yes
TS	34.122	Terminal conformance specification, Radio transmission and reception (TDD)	R5	Yes
TS	34.123-1	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	R5	Yes
TS	34.123-2	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	R5	Yes
TS	34.123-3	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSs)	R5	Yes
TS	34.124	Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment	R4	Yes

Type	Number	Title	WG prime	For publication?
TR	34.901	Test Time Optimisation based on statistical approaches; Statistical theory applied and evaluation of statistical significance	R5	Yes
TR	34.907	Report on electrical safety requirements and regulations	R4	Yes
TR	34.925	Specific Absorption Rate (SAR) requirements and regulations in different regions	R4	Yes
TS	35.201	Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specification	S3	Yes
TS	35.202	Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi 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:
(void)

Annex B (informative): 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
November 1999	version 1.1.0	Updated after decisions of TSG SA#5
November 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 #	TDoc	Version	CR	New Version	Subject/Comment
SP-07		2.6.0	-	3.0.0	Approved following TSG SA #7 and placed under change control.
March 2000		3.0.0	-	3.0.1	Cosmetic edits
SP-08	SP-000182 revised by e-mail	3.0.1	001r1		Specs added to / removed from list (table 1). Minor editorial corrections.
SP-08	SP-000280		002	3.1.0	Annex A removed (replaced by reference to 21.900).
SP-10	SP-000527	3.1.0	003	3.2.0	Update list of R99 specs
SP-11	SP-010206	3.2.0	004r1	3.3.0	Correction to list of specs
SP-12	SP-010379	3.3.0	005r1	3.4.0	Correction to list of specs
SP-13	SP-01585	3.4.0	006r2	3.5.0	Correction to list of specs
SP-14	SP-010655	3.5.0	007	3.6.0	Correction to list of specs
SP-15	SP-020093	3.6.0	008	3.7.0	Correction to list of specs
SP-16	SP-020396	3.7.0	010r1	3.8.0	Correction to list of specs
SP-17	SP-020611	3.8.0	011r1	3.9.0	Correction to list of specs; editorial corrections to spec titles
SP-18	SP-020829	3.9.0	012r1	3.10.0	Correction to list of specs; editorial corrections to spec titles
SP-19	SP-030077	3.10.0	013r1	3.11.0	Correction to list of specs; editorial corrections to spec titles
SP-20	SP-030229	3.11.0	014		Correction to list of specs
SP-20	SP-030359		015	3.12.0	Change spec title to make it release-independent

**Change history**
TSG SA #	**TDoc**	**Version**	**CR**	**New Version**	**Subject/Comment**
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SP-23	SP-040221	3.12.0	018r1	3.13.0	Corrections to list of specifications
SP-26	SP-040880	3.13.0	022r1	3.14.0	Corrections to list of specifications
SP-27	SP-050126	3.14.0	026	3.15.0	Corrections to list of specifications
SP-31	SP-060167	3.15.0	035	3.16.0	Corrections to list of specifications
SP-38	SP-070770	3.16.0	043		Corrections to list of specifications
			048	3.17.0	Update of informative text

History

Document history		
V3.0.1	May 2000	Publication
V3.1.0	July 2000	Publication
V3.2.0	December 2000	Publication
V3.3.0	March 2001	Publication
V3.4.0	July 2001	Publication
V3.5.0	September 2001	Publication
V3.6.0	December 2001	Publication
V3.7.0	March 2002	Publication
V3.8.0	June 2002	Publication
V3.9.0	September 2002	Publication
V3.10.0	December 2002	Publication
V3.11.0	March 2003	Publication
V3.12.0	June 2003	Publication
V3.13.0	March 2004	Publication
V3.14.0	December 2004	Publication
V3.15.0	March 2005	Publication
V3.16.0	March 2006	Publication
V3.17.0	January 2008	Publication