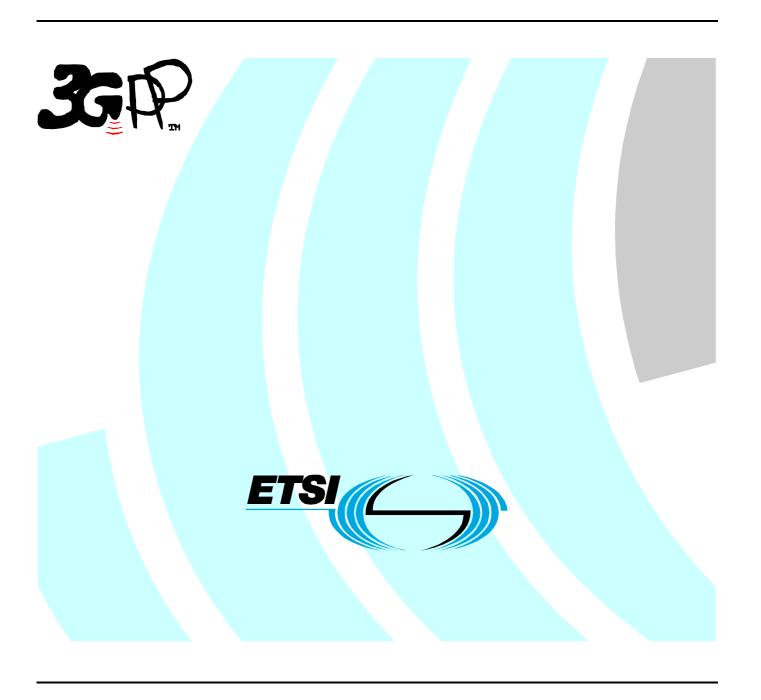
ETSI TS 121 102 V4.5.0 (2002-06)

Technical Specification

Universal Mobile Telecommunications System (UMTS); 3rd Generation mobile system Release 4 specifications (3GPP TS 21.102 version 4.5.0 Release 4)



Reference
RTS/TSGS-0021102v450

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 www.etsi.org/key.

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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 4. The specifications and reports of 3G Release 4 have a major version number 4 (e.g. 4.x.y).

Most of the core Release 4 Technical Specifications and Technical Reports were functionally frozen at the 11th Technical Specification Group meetings (TSG#11) in March 2001.

- 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 4 version 4.x.y specifications throughout 2001 and beyond.

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] 3GPP TS 21.101: "3rd Generation mobile system Release 1999 Specifications".

3 Abbreviations

For the purposes of the present document, the terms and definitions given in 3GPP TS 21.905 [1] apply.

4 General

Release 4 consists of 3G-only specifications and the GSM Core Network specifications developed for both GSM Release 4 and Release 4 of the 3^{rd} Generation mobile system.

The present document identifies the 3G system set of specifications required to implement Release 4.

NOTE: The corresponding list of specifications for Release 1999 can be found in 3GPP TS 21.101 [3].

The numbering scheme for specifications is described in 3GPP TR 21.900 [2].

5 Specifications and Reports of 3G Release 4

NOTE 1: 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 2: Some of the algorithm specifications in the 35.-series are available only under licence.

NOTE 3: "Type" indicates Technical Specification (TS) or Technical Report (TR).

Type Number Title TS 21.102 3rd Generation mobile system Release 4 specifications TS 21.111 USIM and IC card requirements TS 21.133 3G security; Security threats and requirements TR 21.801 Specification drafting rules TR 21.900 Technical Specification Group working methods TR 21.905 Vocabulary for 3GPP Specifications TS 22.001 Principles of circuit telecommunication services supported by a Public Lar Mobile Network (PLMN) TS 22.002 Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN) TS 22.003 Circuit Teleservices supported by a Public Land Mobile Network (PLMN) TS 22.004 General on Supplementary Services TS 22.011 Service accessibility TS 22.020 International Mobile Equipment Identities (IMEI) TS 22.022 Personalisation of Mobile Equipment (ME); Mobile functionality specifications TS 22.030 Man-Machine Interface (MMI) of the User Equipment (UE)	Prime SP T3 S3 SP S1 S1	Yes Yes Yes No Yes Yes Yes Yes Yes		
TS 21.111 USIM and IC card requirements TS 21.133 3G security; Security threats and requirements TR 21.801 Specification drafting rules TR 21.900 Technical Specification Group working methods TR 21.905 Vocabulary for 3GPP Specifications TS 22.001 Principles of circuit telecommunication services supported by a Public Lard Mobile Network (PLMN) TS 22.002 Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN) TS 22.003 Circuit Teleservices supported by a Public Land Mobile Network (PLMN) TS 22.004 General on Supplementary Services TS 22.011 Service accessibility TS 22.016 International Mobile Equipment Identities (IMEI) TS 22.022 Personalisation of Mobile Equipment (ME); Mobile functionality specifications TS 22.024 Description of Charge Advice Information (CAI)	SP T3 S3 SP SP S1 and S1 S1	Yes Yes Yes No Yes Yes Yes Yes		
TS 21.111 USIM and IC card requirements TS 21.133 3G security; Security threats and requirements TR 21.801 Specification drafting rules TR 21.900 Technical Specification Group working methods TR 21.905 Vocabulary for 3GPP Specifications TS 22.001 Principles of circuit telecommunication services supported by a Public Lard Mobile Network (PLMN) TS 22.002 Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN) TS 22.003 Circuit Teleservices supported by a Public Land Mobile Network (PLMN) TS 22.004 General on Supplementary Services TS 22.011 Service accessibility TS 22.016 International Mobile Equipment Identities (IMEI) TS 22.022 Personalisation of Mobile Equipment (ME); Mobile functionality specifications TS 22.024 Description of Charge Advice Information (CAI)	T3 S3 SP SP S1 and S1 S1 S1 S1	Yes Yes No Yes Yes Yes Yes		
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Mobile Network (PLMN) TS 22.002 Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN) TS 22.003 Circuit Teleservices supported by a Public Land Mobile Network (PLMN) TS 22.004 General on Supplementary Services TS 22.011 Service accessibility TS 22.016 International Mobile Equipment Identities (IMEI) TS 22.022 Personalisation of Mobile Equipment (ME); Mobile functionality specifications TS 22.024 Description of Charge Advice Information (CAI)	S1 S1 S1	Yes		
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TS 22.016 International Mobile Equipment Identities (IMEI) TS 22.022 Personalisation of Mobile Equipment (ME); Mobile functionality specification TS 22.024 Description of Charge Advice Information (CAI)	S1	Yes		
TS 22.022 Personalisation of Mobile Equipment (ME); Mobile functionality specifications 22.024 Description of Charge Advice Information (CAI)		Yes		
TS 22.024 Description of Charge Advice Information (CAI)	S1	Yes		
		Yes		
TS 22.030 Man-Machine Interface (MMI) of the User Equipment (UE)	S1	Yes		
	S1	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/SIM 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 22.048 Security Mechanisms for the (U)SIM application toolkit; Stage 1	T3	Yes		
TS 22.053 Tandem Free Operation (TFO); Service description; Stage 1	S4	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); Sta	ige 1 S1	Yes		
TS 22.071 Location Services (LCS); Stage 1	S1	Yes		
TS 22.072 Call Deflection (CD); Stage 1	S1	Yes		
TS 22.076 Noise suppression for the AMR codec; Service description; Stage 1	S4	Yes		
TS 22.078 Customized Applications for Mobile network Enhanced Logic (CAMEL); S description; Stage 1	ervice 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	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				
TS 22.088 Call Barring (CB) supplementary services; Stage 1				
TS 22.090 Unstructured Supplementary Service Data (USSD); Stage 1				
TS 22.091 Explicit Call Transfer (ECT) supplementary service; Stage 1	S1	Yes Yes		
TS 22.093 Completion of Calls to Busy Subscriber (CCBS); Service description, Stage		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 1; Service description - Stage 1	S1	Yes		
TS 22.101 Service aspects; Service principles	S1	Yes		
TS 22.105 Service & service capabilities	S1	Yes		

Туре	Number	Title	WG prim e	For publicatio n?
TS	22.115	Service Aspects Charging and billing	S1	Yes
TR	22.121	Service aspects; The Virtual Home Environment; Stage 1	S1	Yes
TS	22.127	Service Requirement for the Open Services Access (OSA); 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	Service aspects; Stage 1; Multimedia Messaging Service	S1	Yes
TS	23.002	Network Architecture	S2	Yes
TS	23.003	Numbering, Addressing and Identification	N4	Yes
TS	23.007	Restoration procedures	N4	Yes
TS	23.008	Organisation of subscriber data	N4	Yes
TS	23.009	Handover procedures	N1	Yes
TS	23.011	Technical realization of Supplementary Services	N4	Yes
TS	23.012	Location management procedures	N4	Yes
TS	23.014	Support of Dual Tone Multi Frequency (DTMF) signalling	N1	Yes
TS	23.015	Technical realisation of Operator Determined Barring (ODB)	N4	Yes
TS	23.016	Subscriber data management; Stage 2	N4	Yes
TS	23.018	Basic Call Handling; Technical realization	N4	Yes
TS	23.032	Universal Geographical Area Description (GAD)	S2	Yes
TS	23.034	High Speed Circuit Switched Data (HSCSD); Stage 2	N1	Yes
TS TS	23.035	Immediate Service Termination (IST); Stage 2	S3 T2	Yes Yes
TR	23.038	Alphabets and language-specific information Interface Protocols for the Connection of Short Message Service Centers	T2	
	23.039	(SMSCs) to Short Message Entities (SMEs)		Yes
TS	23.040	Technical realization of Short Message Service (SMS)	T2	Yes
TS	23.041	Technical realization of Cell Broadcast Service (CBS)	T2	Yes
TS	23.042	Compression algorithm for SMS	T2	Yes
TS	23.048	Security Mechanisms for the (U)SIM application toolkit; Stage 2	T3	Yes
TS	23.053	Tandem Free Operation (TFO); Service description; Stage 2	S4	Yes
TS	23.057	Mobile Execution Environment (MExE); Functional description; Stage 2	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	N4	Yes
TS	23.067	Enhanced Multi-Level Precedence and Preemption Service (EMLPP); Stage 2	N4	Yes
TS	23.072	Call Deflection Supplementary Service; Stage 2	N4 N2	Yes
TS	23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL); Stage 2 Support of Optimal Routeing (SOR); Technical realization; Stage 2		Yes Yes
TS TS	23.079	Line Identification supplementary services; Stage 2	N4 N4	Yes
TS	23.082	Call Forwarding (CF) Supplementary Services; Stage 2	N4	Yes
TS	23.082	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 2	N4	Yes
TS	23.084	MultiParty (MPTY) Supplementary Service; Stage 2	N4	Yes
TS	23.085	Closed User Group (CUG) Supplementary Service; Stage 2	N4 N4	Yes
TS	23.086	Advice of Charge (AoC) Supplementary Service; Stage 2	N4	Yes
TS	23.087	User-to-User Signalling (UUS) supplementary service; Stage 2	N4	Yes
TS	23.088	Call Barring (CB) Supplementary Service; Stage 2	N4	Yes
TS	23.090	Unstructured Supplementary Service Data (USSD); Stage 2	N4	Yes
TS	23.090	Explicit Call Transfer (ECT) Supplementary Service; Stage 2	N4	Yes
TS	23.093	Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2	N4	Yes
TS	23.094	Follow Me Stage 2	N4	Yes
TS	23.094	Name Identification Supplementary Service; Stage 2	N4	Yes
TS	23.090	Multiple Subscriber Profile (MSP) Phase 1; Stage 2	N4	Yes
TS	23.101	General UMTS Architecture	S2	Yes
TS	23.107	Quality of Service (QoS) concept and architecture	S2	Yes
TS	23.110	UMTS Access Stratum Services and Functions	S2	Yes
TS	23.116	Super-Charger technical realization; Stage 2	N4	Yes
TS	23.119	Gateway Location Register (GLR); Stage2	N4	Yes
TS	23.122	Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	N1	Yes
TS	23.127	Virtual Home Environment (VHE) / Open Service Access (OSA); Stage 2	S2	Yes
TS	23.135	Multicall supplementary service; Stage 2	N4	Yes
	23.140	Multimedia Messaging Service (MMS); Functional description; Stage 2	T2	Yes
'IS			·-	
TS TS	23.146	Technical realisation of facsimile Group 3 service - non-transparent	N3	Yes

Туре	Number	mber Title				
TS	23.205	Bearer-independent circuit-switched core network; Stage 2	N4	Yes		
TS	23.221	Architectural requirements	S2	Yes		
TS	23.227	Application and user interaction in the UE; Principles and specific requirements	T2	Yes		
TS	23.271	Functional stage 2 description of location services	S2	Yes		
TR	23.821	Architecture Principles for Relase 2000	S2	No		
TR	23.873	Feasibility study fro transport and control separation in the PS CN domain	S2	No		
TR	23.874	Feasibility study of architecture for network requested PDP context activation with User-ID	S2	No		
TR	23.907	Quality of Service concept	S2	Yes		
TR	23.908	Technical report on Pre-Paging	N4	Yes		
TR	23.909	Technical report on the Gateway Location Register	N4	Yes		
TR	23.910	Circuit switched data bearer services	N3	Yes		
TR	23.911	Technical report on Out-of-band transcoder control	N4	Yes		
TR	23.912	Technical report on Super-Charger	N4	Yes		
TR	23.925	UMTS Core network based ATM transport	S2	Yes		
TR TS	23.930 24.002	lu Principles GSM-UMTS Public Land Mobile Network (PLMN) Access Reference	S2 N1	Yes Yes		
TS	24.007	Configuration Mahila radia interface signalling layer 3: Conoral Aspects	N1	Yes		
TS	24.007	Mobile radio interface signalling layer 3; General Aspects Mobile radio interface Layer 3 specification; Core network protocols; Stage 3	N1	Yes		
TS	24.000	Mobile Radio Interface Layer 3 Specification, Core network protocols, Stage 3 Mobile Radio Interface Layer 3 - Supplementary Services Specification -	N4	Yes		
TS	24.010	General Aspects Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio	N1	Yes		
		Interface				
TS	24.022	Radio Link Protocol (RLP) for circuit switched bearer and teleservices	N3	Yes		
TS	24.030	Location Services (LCS); Supplementary service operations; Stage 3	N4	Yes		
TS	24.067	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3	N4	Yes		
TS	24.072	Call Deflection Supplementary Service; Stage 3	N4	Yes		
TS	24.080	Mobile radio Layer 3 supplementary service specification; Formats and coding	N4	Yes		
TS TS	24.081 24.082	Line Identification Supplementary Service; Stage 3	N4 N4	Yes Yes		
TS	24.082	Call Forwarding supplementary service; Stage 3 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3	N4	Yes		
TS	24.084	MultiParty (MPTY) Supplementary Service; Stage 3	N4	Yes		
TS	24.085	Closed User Group (CUG) Supplementary Service; Stage 3	N4	Yes		
TS	24.086	Advice of Charge (AoC) Supplementary Service; Stage 3	N4	Yes		
TS	24.087	User-to-User Signalling (UUS); Stage 3	N4	Yes		
TS	24.088	Call Barring (CB) Supplementary Service; Stage 3	N4	Yes		
TS	24.090	Unstructured Supplementary Service Data (USSD); Stage 3	N4	Yes		
TS	24.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 3	N4	Yes		
TS	24.093	Call Completion to Busy Subscriber (CCBS); Stage 3	N4	Yes		
TS	24.096	Name Identification Supplementary Service; Stage 3	N4	Yes		
TS	24.135	Multicall supplementary service; Stage 3	N4	Yes		
TS	25.101	UE Radio transmission and reception (FDD)	R4	Yes		
TS	25.102	UTRA (UE) TDD; Radio transmission and reception	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	25.106	UTRA Repeater; Radio transmission and reception	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 conformance testing (FDD)	R4	Yes		
TS	25.142	Base station conformance testing (TDD)	R4	Yes		
TS	25.143	UTRA repeater; Conformance testing	R4	Yes		
TS TS	25.201 25.211	Physical layer - general description Physical channels and mapping of transport channels onto physical channels	R1 R1	Yes Yes		
TS	25.212	(FDD) 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	R1	Yes		

Туре	Number	Number Title			
		(TDD)	е	n?	
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	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		Yes	
TS	25.306	UE Radio Access capabilities definition	R2	Yes	
TS	25.307	Requirements on 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	Synchronisation in UTRAN Stage 2	R3	Yes	
TS	25.410	UTRAN lu Interface: General Aspects and Principles	R3	Yes	
TS	25.411	UTRAN lu interface Layer 1	R3	Yes	
TS	25.412	UTRAN lu interface signalling transport	R3	Yes	
TS	25.413	UTRAN lu interface RANAP signalling	R3	Yes	
TS	25.414	UTRAN lu interface data transport & transport signalling	R3	Yes	
TS	25.415	UTRAN lu interface user plane protocols	R3	Yes	
TS	25.419	UTRAN lu-BC interface: Service Area Broadcast Protocol (SABP)	R3	Yes	
TS	25.420	UTRAN lur Interface: General Aspects and Principles	R3	Yes	
TS	25.421	UTRAN lur interface Layer 1	R3	Yes	
TS	25.422	UTRAN lur interface signalling transport	R3	Yes	
TS	25.423	UTRAN lur interface RNSAP signalling	R3	Yes	
TS	25.424	UTRAN lur interface data transport & transport signalling for CCH data streams	R3	Yes	
TS	25.425	UTRAN lur interface user plane protocols for CCH data streams	R3	Yes	
TS	25.426	UTRAN lur and lub interface data transport & transport signalling for DCH data streams	R3	Yes	
TS	25.427	UTRAN lur and lub interface user plane protocols for DCH data streams	R3	Yes	
TS	25.430	UTRAN lub Interface: General Aspects and Principles	R3	Yes	
TS	25.431	UTRAN lub interface Layer 1	R3	Yes	
TS	25.432	UTRAN lub interface: signalling transport	R3	Yes	
TS	25.433	UTRAN lub interface NBAP signalling	R3	Yes	
TS	25.434	UTRAN lub interface data transport & transport signalling for CCH data streams	R3	Yes	
TS	25.435	UTRAN lub interface user plane protocols for CCH 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	25.834	UTRA TDD low chip rate option; Radio protocol aspects	R2	No	
TR	25.836	Node B synchronization for TDD	R1	No	
TR	25.837	Hybrid ARQ Type II/III (lub/lur aspects)	R3	No	
TR	25.838	Node B Synchronisation for TDD (lub/lur aspects)	R3	No	
TR	25.839	Uplink Synchronous Transmission Scheme (USTS) (Iur/lub aspects)	R3	No	
TR	25.840	Terminal power saving features	R1	No	
TR	25.841	DSCH power control improvement in soft handover	R1	No	
TR	25.842	Smart antenna	R1	No	
TR	25.843	1,28 Mcps TDD UE Radio Access Capabilities	R2	No	
TR	25.844	Radio acces bearer support enhancements	R2	No	
TR	25.845	FDD RACH and AICH performance requirements	R4	No	
TR	25.847	UE positioning enhancements	R2	No	
TR	25.848	Physical Layer Aspects of UTRA High Speed Downlink Packet Access	R1	No	
TR	25.849	DSCH power control improvement in soft handover	R3	No	
TR	25.850	UE positioning in UTRAN lub/lur protocol aspects	R3	No	
TR	25.851	RAB Quality of Service Renegotiation over lu	R3	No	

25.852 25.853		prim	publication
		e	n?
25 853	Radio access bearer support enhancements for the lu	R3	No
	Delay budget within the access stratum	R3	No
25.921	Guidelines and principles for protocol description and error handling	R2	Yes
25.922	Radio Resource Management Strategies	R2	Yes
25.928	1,28 Mcps functionality for UTRA TDD physical layer	R1	Yes
25.931	UTRAN Functions, examples on signalling procedures	R3	Yes
25.934	AAL2 QoS optimization	R3	Yes
			Yes
		_	Yes
		_	Yes
			Yes
	• '		Yes Yes
			Yes
			Yes
	, , , , , , , , , , , , , , , , , , , ,		Yes
			Yes
			Yes
26.077	Minimum Performance Requirements for Noise Suppresser Application to the	S4	Yes
26 090		S4	Yes
			Yes
			Yes
			Yes
		S4	Yes
26.101		S4	Yes
26.102	AMR speech Codec; Interface to Iu and Uu	S4	Yes
26.103	Codec lists	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
26.115	Echo control for speech and multi-media services	S4	Yes
26.131		S4	Yes
	specification	S4	Yes
		S4	Yes
			Yes
		_	Yes
	Implementor's Guide		Yes
	performance evaluation of H.324 Annex C over 3G		Yes
		_	Yes
			Yes
			Yes
	capabilities		Yes
	capabilities		Yes
	DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	T2	Yes
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 27.901	Wide Area Network Synchronization Report on Terminal Interfaces - An Overview	T2 T2	Yes Yes
	25.935 25.936 25.937 25.942 25.943 25.944 25.945 25.946 25.950 25.954 25.956 26.071 26.073 26.074 26.077 26.090 26.091 26.092 26.093 26.094 26.101 26.102 26.103 26.104 26.115 26.131 26.132 26.234 26.93 26.94 26.95 27.001 27.002	25.935 RRM optimisation 25.936 Handover for realtime services from PS-domain 25.941 RF system scenarios 25.942 RF system scenarios 25.943 Deployment aspects 25.944 Channel coding and multiplexing examples 25.945 RF requirements for low chip rate TDD option 25.946 RAB Quality of Service Negotiation over lu 25.950 UTRA high speed downlink packet access 25.951 TrFO/TFO 25.956 UTRA repeater: Planning guidelines and system analysis 26.071 AMR speech Codec; General description 26.073 AMR speech Codec; General description 26.074 AMR speech Codec; C-source code 26.074 AMR speech Codec; Test sequences 26.090 AMR speech Codec; Test sequences 26.091 AMR speech Codec; Transcoding Functions 26.091 AMR speech Codec; Transcoding Functions 26.092 AMR speech Codec; Error concealment of lost frames 26.093 AMR speech Codec; Comfort noise for AMR Speech Traffic Channels 26.094 AMR Speech Codec; From Controlled Rate operation 26.095 AMR speech Codec; Comfort noise for AMR Speech Traffic Channels 26.096 AMR speech Codec; Comfort noise for AMR Speech Traffic Channels 26.097 AMR speech Codec; Comfort noise for AMR Speech Traffic Channels 26.098 AMR speech Codec; Transcoding Functions 26.099 AMR speech Codec; Comfort noise for AMR Speech Traffic Channels 26.101 AMR speech Codec; Transcoding Functions 26.102 AMR speech Codec; Trans Structure 26.103 Codec lists 26.104 ANSI-C code for the floating-point Adaptive Multi-Rate (AMR) speech codec 26.105 Codec for Circuit switched Multimedia Telephony Service; Modifications to 11.324 26.115 Echo control for speech and multi-media services 26.131 Terminal acoustic characteristics for telephony, Requirements 26.233 End-to-end transparent streaming service; Protocols and codecs 26.231 End-to-end transparent streaming service; Protocols and codecs 26.233 End-to-end transparent streaming service; Protocols and codecs 26.991 AMR wideband speech codec; Feasibility study report 26.236 End-to-end transparent streaming service; Protocols and codecs 27.001 General on Terminal Adaptation Functions (TAF) fo	25.935 RRM optimisation R3 25.937 UTRAN TDD low chiprate R3 25.937 UTRAN TDD low chiprate R3 25.942 RF system scenarios R4 25.944 Channel coding and multiplexing examples R1 25.945 RF requirements for low chip rate TDD option R4 25.946 RAB Quality of Service Negotiation over lu R3 25.947 RF requirements for low chip rate TDD option R4 25.948 RAB Quality of Service Negotiation over lu R3 25.959 UTRA high speed downlink packet access R2 25.954 Migration to modification procedure R3 25.955 UTRA repeater: Planning guidelines and system analysis R4 26.071 AMR speech Codec; General description S4 26.073 AMR speech Codec; General description S4 26.074 AMR speech Codec; Ters sequences S4 26.077 Minimum Performance Requirements for Noise Suppresser Application to the AMR Speech Codec; Transcoding Functions S4 26.090 AMR speech Codec; Transcoding Functions S4 26.091 AMR speech Codec; Source Controlled Rate operation S4 26.092 AMR speech Codec; Source Controlled Rate operation S4 26.093 AMR speech Codec; Source Controlled Rate operation S4 26.094 AMR speech Codec; Source Controlled Rate operation S4 26.095 AMR speech Codec; Interface to lu and Uu S4 26.096 AMR speech Codec; Interface to lu and Uu S4 26.101 AMR speech Codec; Interface to lu and Uu S4 26.102 AMR speech Codec; Interface to lu and Uu S4 26.103 Codec for circuit switched multimedia telephony service; General description S4 26.101 Codec for circuit switched multimedia telephony service; Modifications to H.324 26.101 Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324 26.102 Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324 26.103 Performance characterization of the Adaptive Multi-Rate (AMR) speech codec 26.234 End-to-end transparent streaming service; General description S4 26.105 Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324 26.106 Performance characterization of the Adaptive Multi-Rate (AMR) speech codec 26.235 Performance characterization of the Adaptive Multi-Rate (A

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Туре	Number	Title	WG	For	
Type	Number	Title	prim	publicatio	
T D	27.222		е	n?	
TR	27.903	Discussion of synchronization standards	T2	Yes	
TS	28.062	Inband Tandem Free Operation (TFO) of speech codecs; Service description; Stage 3	S4	Yes	
TS	29.002	Mobile Application Part (MAP) specification	N4	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)		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)	N4	Yes	
TS	29.011	Signalling Interworking for Supplementary Services	N4	Yes	
TS	29.013	Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols	N4	Yes	
TS	29.016	Serving GPRS Support Node SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification	N1	Yes	
TS	29.018	General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification	N1	Yes	
TS	29.060	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface	N4	Yes	
TS	29.061	Interworking between the Public Land Mobile Network (PLMN) supporting Packet Based services and Packet Data Networks (PDN)	N3	Yes	
TS	29.078	Customised Applications for Mobile network Enhanced Logic (CAMEL); CAMEL Application Part (CAP) specification	N2	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)	N4	Yes	
TS	29.120	Mobile Application Part (MAP) specification for Gateway Location Register (GLR); Stage 3	N4	Yes	
TS	29.198- 01	Open Service Access (OSA) Application Programming Interface (API); Part 1: Overview	N5	Yes	
TS	29.198- 02	Open Service Access (OSA) Application Programming Interface (API); Part 2: Common data	N5	Yes	
TS	29.198- 03	Open Service Access (OSA) Application Programming Interface (API); Part 3: Framework	N5	Yes	
TS	29.198- 04	Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control	N5	Yes	
TS	29.198- 05	Open Service Access (OSA) Application Programming Interface (API); Part 5: Generic user interaction	N5	Yes	
TS	29.198- 06	Open Service Access (OSA) Application Programming Interface (API); Part 6: Mobility	N5	Yes	
TS	29.198- 07	Open Service Access (OSA) Application Programming Interface (API); Part 7: Terminal capabilities	N5	Yes	
TS	29.198- 08	Open Service Access (OSA) Application Programming Interface (API); Part 8: Data session control	N5	Yes	
TS	29.198- 11	Open Service Access (OSA) Application Programming Interface (API); Part 11: Account management	N5	Yes	
TS	29.198- 12	Open Service Access (OSA) Application Programming Interface (API); Part 12: Charging	N5	Yes	
TS	29.202	Signalling System No. 7 (SS7) signalling transport in core network; Stage 3	N4	Yes	
TS	29.205	Application of Q.1900 series to bearer-independent circuit-switched core network architecture; Stage 3	N4	Yes	
TS	29.232	Media Gateway Controller (MGC) - Media Gateway (MGW) interface; Stage 3	N4	Yes	
TS	29.414	Core network Nb data transport and transport signalling	N3	Yes	
TS	29.415	Core network Nb interface user plane protocols	N3	Yes	
TR	29.993	Modifications to be incorporated in equipment to cater for errors in the standards	RP	Yes	
TR	29.994	Recommended infrastructure measures to overcome specific Mobile Station (MS) and User Equipment (UE) faults	N1	Yes	
TR	29.998- 01	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 1: General Issues on API Mapping	N5	Yes	
TR	29.998- 04-1	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 1: API	N5	Yes	

Туре	Number	Title	WG prim e	For publicatio n?	
		to CAP Mapping			
TR	29.998- 05-1	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 1: API to CAP Mapping	N5	Yes	
TR	29.998- 05-4	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 4: API to SMS Mapping	N5	Yes	
TR	29.998- 06	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 6: User Location and User Status Service Mapping to MAP	N5	Yes	
TR	29.998- 08	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 8: Data Session Control Service Mapping to CAP	N5	Yes	
TR	30.002	Guidelines for the modification of the Mobile Application Part (MAP)	N4	No	
TR	30.504	Work Plan and Study Items - RAN WG4	R4	No	
TS	31.048	Test specification for security mechanisms for the (U)SIM application toolkit	T3	Yes	
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	UICC-terminal interface; Physical, electrical and logical test specification	T3	Yes	
TS TS	31.121 31.122	UICC-terminal interface; USIM application test specification	T3	Yes	
TS	32.101	USIM conformance test specification 3G Telecom Management principles and high level requirements	T3 S5	Yes Yes	
TS	32.101	3G Telecom Management Architecture	S5	Yes	
TS		Telecommunication management; Fault Management; Part 1: 3G fault management requirements	S5	Yes	
TS	32.111-2		S5	Yes	
TS		Telecommunication management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1		Yes	
TS		Telecommunication management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP solution set		Yes	
TS	32.200	Telecommunication management; Charging management; Charging principles		Yes	
TS	32.205	Telecommunication management; Charging management; 3G charging data description for the CS domain	S5	Yes	
TS TS	32.215	Telecommunications management; Charging management; Charging data description for the Packet Switched (PS) domain Telecommunication management; Charging management; Charging data	S5	Yes	
	32.235	description for application services	S5	Yes	
TS TS	32.300	Telecommunication management; 3G configuration management; Name convention for Managed Objects Telecommunication management; Configuration Management; Notification IRP:	S5	Yes	
TS	32.301	requirements Telecommunication management; Configuration Management; Notification	S5	Yes	
TS	32.303	Integration Reference Point; Information Service version 1 Telecommunication management; Configuration Management; Notification	S5	Yes	
TS	32.304	Integration Reference Point; CORBA solution set version 1:1 Telecommunication management; Configuration Management; Notification	S5	Yes	
TS	32.311	Integration Reference Point: CMIP Solution Set Version 1:1 Telecommunication management; Generic IRP management; Requirements	S5	Yes	
TS	32.312	Telecommunication management; Generic IRP management; Information service	S5	Yes	
TS	32.401	Telecommunication management; Performance Management (PM); Concept and requirements	S5	Yes	
TS	32.403	Telecommunication management; Performance Management (PM); Performance measurements - UMTS and combined UMTS/GSM	S5	Yes	
TS	32.600	Telecommunication management; Configuration Management; 3G configuration management; Concept and main requirements	S5	Yes	
TS	32.601	Telecommunication management; Configuration Management; Basic CM IRP: requirements	S5	Yes	
TS	32.602	Telecommunication management; Configuration Management; Basic configuration management IRP information model	S5	Yes	

Туре	Number	Title	WG prim e	For publicatio n?
TS	32.603	Telecommunication management; Configuration Management; Basic configuration management IRP: CORBA solution set	S5	Yes
TS	32.604	Telecommunication management; Configuration Management; Basic configuration management IRP CMIP solution set	S5	Yes
TS	32.611	Telecommunication management; Configuration management; 3G configuration management: Bulk CM IRP requirements	S5	Yes
TS	32.612	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: Information service	S5	Yes
TS	32.613	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: CORBA solution set	S5	Yes
TS	32.614	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: CMIP solution set	S5	Yes
TS	32.615	Telecommunication management; Configuration management; 3G configuration management: Bulk configuration management IRP: XML file format definition	S5	Yes
TS	32.621	Telecommunication management; Configuration Management; Generic network resources IRP: requirements	S5	Yes
TS	32.622	Telecommunication management; Configuration Management; Generic network resources IRP: NRM	S5	Yes
TS	32.623	Telecommunication management; Configuration Management; Generic network resources IRP: CORBA solution set	S5	Yes
TS	32.624	Telecommunication management; Configuration Management; Generic network resources: IRP CMIP solution set	S5	Yes
TS	32.631	Telecommunication management; Configuration Management; Core network resources IRP: requirements	S5	Yes
TS	32.632	Telecommunication management; Configuration Management; Core Network Resources IRP: NRM	S5	Yes
TS	32.633	Telecommunication management; Configuration Management; Core network resources IRP: CORBA solution set	S5	Yes
TS	32.634	Telecommunication management; Configuration Management; Core network resources IRP: CMIP solution set	S5	Yes
TS	32.641	Telecommunication management; Configuration Management; UTRAN network resources IRP: requirements	S5	Yes
TS	32.642	Telecommunication management; Configuration Management; UTRAN network resources IRP: NRM	S5	Yes
TS	32.643	Telecommunication management; Configuration Management; UTRAN network resources IRP: CORBA solution set	S5	Yes
TS	32.644	Telecommunication management; Configuration Management; UTRAN network resources IRP: CMIP solution set	S5	Yes
TR	32.800	Management level procedures and interaction with UTRAN	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
TS	33.200	Network Domain Security - MAP	S3	Yes
TR	33.800	Principles for Network Domain Security	S3	No
TR	33.901	Criteria for cryptographic Algorithm design process	S3	Yes
TR	33.902	Formal Analysis of the 3G Authentication Protocol	S3	Yes
TR	33.903	Access Security for IP based services	S3	Yes
TR	33.904	Report on the Evaluation of 3GPP Standard Confidentiality and Integrity Algorithms	S3	Yes
TR	33.908	3G Security; General report on the design, specification and evaluation of 3GPP standard confidentiality and integrity algorithms	S3	Yes
TR	33.909	3G Security; Report on the design and evaluation of the MILENAGE algorithm set; Deliverable 5: An example algorithm for the 3GPP authentication and key generation functions	S3	Yes
TS	34.108	Common test environments for User Equipment (UE) conformance testing	T1	Yes
TS	34.109	Terminal logical test interface; Special conformance testing functions	R2	Yes

Туре	Number	Title	WG prim e	For publicatio n?
TS	34.121	Terminal Conformance Specification, Radio Transmission and Reception (FDD)		Yes
TS	34.122	Terminal Conformance Specification, Radio Transmission and Reception (TDD)		Yes
TS	34.123-1	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	T1	Yes
TS	34.123-2	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	T1	Yes
TS	34.123-3	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSs)	T1	Yes
TS	34.124	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	R4	Yes
TR	34.910	Identification of test requirements for regulatory purposes in different regions/countries	T1	Yes
TR	34.926	Table of international EMC requirements	R4	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
TR	35.205	3G Security; Specification of the MILENAGE Algorithm Set: An example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 1: General	S3	Yes
TS	35.206	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 2: Algorithm specification	S3	Yes
TS	35.207	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 3: Implementors' test data	S3	Yes
TS	35.208	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 4: Design conformance test data	S3	Yes
TR	35.909	3G Security; Specification of the MILENAGE algorithm set: an example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 5: Summary and results of design and evaluation	S3	Yes

Annex A (informative): Change history

				Cha	ange history
TSG SA#	Version	CR	Tdoc SA	New Version	Subject/Comment
SP-11	2.2.0	-	SP-010211	4.0.0	Approved and placed under TSG SA Change Control (Rel-4)
SP-12	4.0.0	001 r2	SP-010396	4.1.0	Correction to list of specs
SP-13	4.1.0	003 r1	SP-010534	4.2.0	Correction to list of specs
SP-14	4.2.0	004 r1	SP-010753	4.3.0	Correction to list of specs
SP-15	4.3.0	005 r1	SP-020176	4.4.0	Correction to list of specs
SP-16	4.4.0	007 r1	SP-020397	4.5.0	Correction to list of specs

History

	Document history						
V4.0.0	March 2001	Publication					
V4.1.0	July 2001	Publication					
V4.2.0	September 2001	Publication					
V4.3.0	December 2001	Publication					
V4.4.0	March 2002	Publication					
V4.5.0	June 2002	Publication					