

Technical Specification Group Core Network
Technical Specification Group Radio Access Network
Technical Specification Group Terminals
Technical Specification Group Services and System Aspects
Meeting #17, Biarritz (France), September 2002

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Title: **Spec numbers and titles**

Document for: **information**

The table below shows all known specifications for which 3GPP is responsible (or for which ETSI TC SMG was formerly responsible), past and present.

In [table 1](#), a "Y" indicates that the specification in question exists for the Release indicated. A "w" indicates that the Release version did at one time exist, or was anticipated, but that it has been withdrawn or stopped.

Specs ending with "U" pertain to early UMTS work within ETSI TC SMG, and are not shown as belonging to any Release. Most have been withdrawn.

[Table 2](#) shows the progenitor and progeny of each spec, enabling the reader to trace the origins of any given spec and to determine successors to specs superseded or not propagated to newer Releases.

Number	Title	WG	Ph1	Ph2	R96	R97	R98	R99	Rel-4	Rel-5	Rel-6	active
02.06	Types of Mobile Stations (MS)	S1	Y	Y	Y	Y	Y					yes
02.07	Mobile Station (MS) Features	S1	Y	Y	Y	Y	Y	w				yes
02.08	Quality of Service (QoS) / GSM system performance	-	w	w								
02.09	Security aspects	S3	Y	Y	Y	Y	Y	Y				yes
02.10	Provision of Telecommunication Services		w									
02.11	Service Accessibility	S1	Y	Y	Y	Y	Y					yes
02.12	Licensing		w									
02.13	Subscription to the Services of a GSM PLMN		w									
02.14	Service Directory		w									
02.15	Circulation of mobile stations		w									
02.16	International Mobile Station Equipment Identities (IMEI)	S1	Y	Y	Y	Y	Y					yes
02.17	Subscriber Identity Module (SIM); Functional characteristics	T3	Y	Y	Y	Y	Y	Y				yes
02.18	Interworking with non-GSM applications on the SIM to be accessed via the GSM network				w							
02.19	Subscriber Identity Module Application Programming Interface (SIM API); Stage 1	T3					Y	Y				yes
02.20	Collection charges	S1	Y									yes
02.21	Transferred account procedure and billing information	S2	w									
02.22	Stage 1 for personalisation of GSM ME	S1			Y	Y	Y					yes
02.24	Description of Charge Advice Information (CAI)	S1		Y	Y	Y	Y					yes
02.25	GSM - DCS roaming: Requirements and Stage 1 descriptions				w							
02.26	Operation of multi-band GSM/DCS 1800 network by a single operator				w							
02.27	DECT access to GSM networks				w							
02.28	UPT phase 1				w							
02.29	Inter operation with UPT phase 2				w							
02.30	Man-machine Interface (MMI) of the Mobile Station (MS)	S1	Y	Y	Y	Y	Y					yes
02.31	Fraud Information Gathering System (FIGS); Service description; Stage 1	S3			w	w	Y	Y				yes
02.32	Immediate Service Termination (IST); Service description; Stage 1	S3					Y	w				yes
02.33	Lawful Interception (LI); Stage 1	S3			w	w	Y	Y				yes
02.34	High Speed Circuit Switched Data (HSCSD); Stage 1	S1			Y	Y	Y	w				yes
02.35	Universal access to freephone numbers; Stage 1				w							
02.36	Premium rate services; Stage 1				w							
02.37	ISDN based DECT/GSM Interworking				w							
02.38	SIM application toolkit (SAT); Stage 1	S1			w	w	w	w				
02.40	Procedures for Call Progress Indications	S1	Y	Y	Y	Y	Y	w				yes
02.41	Operator Determined Barring	S1		Y	Y	Y	Y					yes
02.42	Network Identity and Timezone (NITZ); Service Description, Stage 1	S1			Y	Y	Y	w				yes
02.43	Support of Localised Service Area (SoLSA); Service description; Stage 1	S1					Y	Y				yes
02.48	Security mechanisms for the SIM Application Toolkit; Stage 1	T3				Y	Y	Y				yes

Number	Title	WG	Ph1	Ph2	R96	R97	R98	R99	Rel-4	Rel-5	Rel-6	active
02.53	Tandem Free Operation (TFO); Service description; Stage 1	S4			w	Y	Y	Y				yes
02.56	GSM Cordless Telephony System (CTS), Phase 1; Service description; Stage 1	S1					Y	Y				yes
02.57	Mobile Station Application Execution Environment (MExE) Service description Stage 1	S1					Y	w				yes
02.60	General Packet Radio Service Stage 1 Description	S1			w	Y	Y	w				yes
02.63	Packet Data on Signalling channels Service (PDS); Stage 1	S1			Y	Y	Y					yes
02.66	Support of Mobile Number Portability (MNP); Service description; Stage 1	S1			w		Y					yes
02.67	Enhanced Multi-Level Precedence and Pre-emption Service (eMLPP); Stage 1	S1			Y	Y	Y					yes
02.68	Voice Group Call Service (VGCS); Stage 1	S1			Y	Y	Y	Y				yes
02.69	Voice Broadcast Service (VBS); Stage 1	S1			Y	Y	Y	Y				yes
02.71	Location Services (LCS); Stage 1	S1					Y					yes
02.72	Call Deflection Service description, Stage 1	S1			w		Y					yes
02.73	Malicious Call Identification (MCID) - stage 1				w							
02.76	Noise Suppression for the AMR	S4						Y				yes
02.77	Emergency call TS12 with additional data transfer				w							
02.78	Customized Applications for Mobile network Enhanced Logic (CAMEL); Service definition (Stage 1)	S1			Y	Y	Y	w				yes
02.79	Support of Optimal Routing (SOR); Service definition (Stage 1)	S1			Y	Y	Y					yes
02.81	Line Identification Supplementary Services; Stage 1	S1		Y	Y	Y	Y					yes
02.82	Call Forwarding (CF) Supplementary Services; Stage 1	S1	Y	Y	Y	Y	Y	w				yes
02.83	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1	S1		Y	Y	Y	Y					yes
02.84	MultiParty (MPTY) Supplementary Services; Stage 1	S1		Y	Y	Y	Y					yes
02.85	Closed User Group (CUG) Supplementary Services; Stage 1	S1		Y	Y	Y	Y					yes
02.86	Advice of Charge (AoC) Supplementary Services; Stage 1	S1		Y	Y	Y	Y					yes
02.87	User-to-User Signalling (UUS) Service Description; Stage 1	S1			w		Y					yes
02.88	Call Barring (CB) Supplementary Services; Stage 1	S1	Y	Y	Y	Y	Y					yes
02.90	Unstructured Supplementary Service Data (USSD); Stage 1	S1		Y	Y	Y	Y	w				yes
02.91	Explicit Call Transfer (ECT)	S1			Y	Y	Y					yes
02.92	Call Forward Enhancements (CFE) - Stage 1 description				w							
02.93	Completion of Calls to Busy Subscriber (CCBS) Service Description; Stage 1	S1			w	Y	Y					yes
02.94	Follow Me Service description; Stage 1	S1						Y				yes

Number	Title	WG	Ph1	Ph2	R96	R97	R98	R99	Rel-4	Rel-5	Rel-6	active
02.95	Support of Private Numbering Plan (SPNP); Service description; Stage 1	S1			Y	Y	Y	Y				yes
02.96	Name Identification Supplementary Services; Stage 1	S1			w	Y	Y					yes
02.97	Multiple Subscriber Profile (MSP) Service description, Stage 1	S1			w		Y					yes
02.98	New barring services; Stage 1				w							
02.99	Direct Subscriber Access and Restriction (DSAR); Stage1				w							
03.01	Network Functions	S2	Y	Y	Y	Y	Y	w				yes
03.02	Network Architecture	S2	Y	Y	Y	Y	Y					yes
03.03	Numbering, Addressing and Identification	N4	Y	Y	Y	Y	Y					yes
03.04	Signalling Requirements Relating to Routing of Calls to Mobile Subscribers	N4	Y	Y	w	w						yes
03.05	Technical performance objectives	NP	Y	Y	Y	Y	Y	Y				yes
03.07	Restoration Procedures	N4	Y	Y	Y	Y	Y					yes
03.08	Organization of Subscriber Data	N4	Y	Y	Y	Y	Y					yes
03.09	Handover Procedures	N1	Y	Y	Y	Y	Y					yes
03.10	GSM Public Land Mobile Network (PLMN) Connection Types	N3	Y	Y	Y	Y	Y	Y				yes
03.11	Technical Realization of Supplementary Services - General Aspects	N4	Y	Y	Y	Y	Y					yes
03.12	Location Registration Procedures	N4	Y	Y	Y	Y	Y					yes
03.13	Discontinuous Reception (DRX) in the GSM System	G1	Y	Y	Y	Y	Y	Y				yes
03.14	Support of Dual Tone Multi-Frequency Signalling (DTMF) via the GSM System	N1	Y	Y	Y	Y	Y					yes
03.15	Technical Realization of Operator Determined Barring	N4		Y	Y	Y	Y					yes
03.16	Subscriber Data Management	N4		Y	Y	Y	Y					yes
03.17	Technical realization of Exchange of Network Capabilities Information (ENCI); Stage 2				w							
03.18	Basic Call Handling	N4			Y	Y	Y					yes
03.19	GSM API for SIM toolkit stage 2	T3					Y	Y				yes
03.20	Security-related Network Functions	S3	Y	Y	Y	Y	Y	Y				yes
03.22	Functions related to Mobile Station (MS) in idle mode and group receive mode	G1		Y	Y	Y	Y	Y				yes
03.26	Multiband operation of GSM/DCS 1800 by a single operator	G1		Y	Y	Y	Y	Y				yes
03.30	Radio Network Planning Aspects	GP		Y	Y	Y	Y	Y				yes
03.31	Fraud Information Gathering System (FIGS); Service description; Stage 2	S3					Y	Y				yes
03.32	Universal Geographical Area Description (GAD)	S2			Y	Y	Y					yes
03.33	Lawful Interception; Stage 2	S3					Y	Y				yes
03.34	High Speed Circuit Switched Data (HSCSD); Stage 2	N1			Y	Y	Y					yes
03.35	Immediate Service Termination (IST); Stage 2	S3					Y	w				yes
03.36	Premium rate services - stage 2				w							
03.38	Alphabets and language-specific information	T2		Y	Y	Y	Y					yes
03.39	Digital Cellular Telecommunications System	T2		w	w	w	w					

Number	Title	WG	Ph1	Ph2	R96	R97	R98	R99	Rel-4	Rel-5	Rel-6	active
	(Phase 2) Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)											
03.40	Technical Realization of the Short Message Service (SMS) Point-to-poin (PP)	T2	Y	Y	Y	Y	Y					yes
03.41	Technical Realization of Short Message Service Cell Broadcast (SMSCB)	T2	Y	Y	Y	Y	Y					yes
03.42	SMS Compression	T2			Y	Y	Y					yes
03.43	Support of Videotex	T2	Y	Y	Y	Y	Y	w				yes
03.44	Support of Teletex in a GSM Public Land Mobile Network (PLMN)	T2	Y	Y	Y	Y	Y	w				yes
03.45	Technical Realization of Facsimile Group 3 Service - transparent	N3	Y	Y	Y	Y	Y	Y				yes
03.46	Technical Realization of Facsimile Group 3 Service - non transparent	N3	Y	Y	Y	Y	Y	Y				yes
03.47	Example Protocol Stacks for Interconnecting Service Centre(s) (SC) and Mobile Services Switching Centre(s) (MSC)	T2		Y	Y	Y	Y	w				yes
03.48	Security mechanisms for SIM application toolkit; Stage 2	T3	Y			Y	Y	Y				yes
03.49	Example protocol stacks for interconnecting Cell Broadcast Centre (CBC) and Base Station Controller (BSC)	T2		Y	Y	Y	Y	w				yes
03.50	Transmission Planning Aspects of the Speech Service in the GSM Public Land Mobile Network (PLMN) System	S4	Y	Y	Y	Y	Y	Y				yes
03.51	GSM/EDGE Radio Access Network (GERAN) overall description; Stage 2	G1										
03.52	Lower layers of the GSM Cordless Telephony System (CTS) radio interface; Stage 2	G1					Y	Y				yes
03.53	Tandem Free Operation (TFO); Service description; Stage 2	S4					Y	Y				yes
03.54	Description for the use of a Shared Inter Working Function (SIWF) in a GSM PLMN; Stage 2	N3			Y	Y	Y					yes
03.55	Dual Transfer Mode (DTM); Stage 2	G1						Y				yes
03.56	GSM Cordless Telephony System (CTS), Phase 1; CTS Architecture Description; Stage 2	S2					Y	w				yes
03.57	Mobile Station Application Execution Environment (MExE); Functional description; Stage 2	T2					Y					yes
03.58	Characterisation, test methods and quality assessment for handsfree Mobile Stations (MSs)	S4				Y	Y	Y				yes
03.59	Location services (LCS) GERAN; Stage 2	G1										
03.60	General Packet Radio Service (GPRS) Service description; Stage 2	S2			w	Y	Y					yes
03.61	General Packet Radio Service (GPRS); Point To Multipoint Multicast Service Description; Stage 2	-				w						
03.62	General Packet Radio Service (GPRS); Point-to-multipoint	-				w						

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	group call; Stage 2											
03.63	Packet Data on Signalling channels service (PDS) Service description, Stage 2	N1			Y	Y	Y	w				yes
03.64	General Packet Radio Service (GPRS); Overall description of the GPRS radio interface; Stage 2	G1			w	Y	Y	Y				yes
03.66	Support of GSM Mobile Number Portability (MNP); Stage 2	N4					Y					yes
03.67	Enhanced Multi-Level Precedence and Preemption Service (EMLPP); Stage 2	N4			Y	Y	Y					yes
03.68	Voice Group Call Service (VGCS); Stage 2	N1			Y	Y	Y	Y				yes
03.69	Voice Broadcast service (VBS); Stage 2	N1			Y	Y	Y	Y				yes
03.70	Routing of Calls to/from Public Data Networks (PDN)	N3	Y	Y	Y	Y	Y					yes
03.71	Location Services (LCS); Functional description; Stage 2	S2					Y	Y				yes
03.72	Call Deflection stage 2	N4					Y					yes
03.73	Support of Localised Service Area (SoLSA); Stage 2	N4					Y	Y				yes
03.78	Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 2; Stage 2	N2			Y	Y	Y					yes
03.79	Support of Optimal Routeing phase 1; Stage 2	N4			Y	Y	Y					yes
03.81	Line Identification Supplementary Services; Stage 2	N4		Y	Y	Y	Y					yes
03.82	Call Forwarding (CF) Supplementary Services; Stage 2	N4	Y	Y	Y	Y	Y	w				yes
03.83	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 2	N4		Y	Y	Y	Y					yes
03.84	Multi Party (MPTY) Supplementary Services; Stage 2	N4		Y	Y	Y	Y					yes
03.85	Closed user Group (CUG) Supplementary Services; Stage 2	N4		Y	Y	Y	Y					yes
03.86	Advice of Charge (AoC) Supplementary Services; Stage 2	N4		Y	Y	Y	Y					yes
03.87	User-to-user signalling (UUS); Stage 2	N4					Y					yes
03.88	Call Barring (CB) supplementary services; Stage 2	N4	Y	Y	Y	Y	Y					yes
03.90	Unstructured Supplementary Service Data (USSD)	N4		Y	Y	Y	Y					yes
03.91	Explicit Call Transfer (ECT) Supplementary Service; Stage 2	N4			Y	Y	Y					yes
03.93	Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2	N4				Y	Y					yes
03.94	Follow Me Service description; Stage 2	-			w							
03.95	Support of Private Numbering Plan (SPNP); Stage 2				w							
03.96	Name Identification Supplementary Services; Stage 2	N4				Y	Y					yes
03.97	Multiple subscriber Profile (MSP); Stage 2	N4					Y					yes
03.98	New barring services; Stage 2 description	-			w							
03.99	Direct Subscriber Access and Restriction (DSAR); Stage 2	-			w							

Number	Title	WG	Ph1	Ph2	R96	R97	R98	R99	Rel-4	Rel-5	Rel-6	active
04.01	Mobile Station - Base Station System (MS - BSS) Interface General Aspects and Principles	N1	Y	Y	Y	Y	Y	Y				yes
04.02	GSM Public Land Mobile Network (PLMN) Access Reference Configuration	N1	Y	Y	Y	Y	Y					yes
04.03	Mobile Station - Base Station System (MS - BSS) Interface Channel Structures and Access Capabilities	G2	Y	Y	Y	Y	Y	Y				yes
04.04	Layer 1 - General Requirements	G2	Y	Y	Y	Y	Y	Y				yes
04.05	Data Link (DL) Layer General Aspects	G2	Y	Y	Y	Y	Y	Y				yes
04.06	Mobile Station - Base Stations System (MS - BSS) Interface Data Link (DL) Layer Specification	G2	Y	Y	Y	Y	Y	Y				yes
04.07	Mobile Radio Interface Signalling Layer 3 - General Aspects	N1	Y	Y	Y	Y	Y					yes
04.08	Mobile radio interface layer 3 specification	N1	Y	Y	Y	Y	Y	Y				yes
04.10	Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects	N4	Y	Y	Y	Y	Y					yes
04.11	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	N1	Y	Y	Y	Y	Y					yes
04.12	Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface	G2	Y	Y	Y	Y	Y	Y				yes
04.13	Performance Requirements on Mobile Radio Interface	N1		Y	Y	Y	Y	Y				yes
04.14	Individual equipment type requirements and interworking; Special conformance testing functions	G2			Y	Y	Y	Y				yes
04.18	Mobile radio interface layer 3 specification; Radio Resource Control Protocol	G2						Y				yes
04.21	Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface	N3	Y	Y	Y	Y	Y	Y				yes
04.22	Radio Link Protocol (RLP) for data and telematic services on the Mobile Station - Base Station System (MS - BSS) interface and the Base Station System - Mobile-services Switching Centre (BSS - MSC) interface	N3	Y	Y	Y	Y	Y	w				yes
04.30	Location Services (LCS); Supplementary service operations; Stage 3	N4					Y					yes
04.31	Location Services (LCS); Mobile Station (MS) - Serving Mobile Location Centre (SMLC) Radio Resource LCS Protocol (RRLP)	G2					Y	Y				yes
04.33	Lawful interception; Stage 3						w					
04.35	Location Services (LCS); Broadcast network assistance for Enhanced Observed Time Difference (E-OTD) and Global Positioning System (GPS) positioning methods	G2					Y	Y				yes
04.36	Premium rate services - stage 3				w							
04.53	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description;	-					w					

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	Stage 3											
04.56	GSM Cordless Telephony System (CTS), (Phase 1) CTS Radio Interface Layer 3 Specification	N1					Y	Y				yes
04.57	GSM Cordless Telephony System (CTS), (Phase 1) CTS CTS supervising system Layer 3 Specification	N1					Y	Y				yes
04.60	General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/ Medium Access Control (RLC/MAC) protocol	G2				Y	Y	Y				yes
04.61	General Packet Radio Service (GPRS); Point-to-multipoint multicast; Stage 3					w						
04.62	General Packet Radio Service (GPRS); Point-to-multipoint group call; Stage 3					w						
04.63	Packet Data on Signalling channels Service (PDS) Service Description, Stage 3	N1			Y	Y	Y	w				yes
04.64	General Packet Radio Service (GPRS); Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) layer specification	N1			w	Y	Y	Y				yes
04.65	General Packet Radio Service (GPRS); Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDP)	N1			w	Y	Y	Y				yes
04.67	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3	N4			Y	Y	Y					yes
04.68	Group Call Control (GCC) Protocol	N1			Y	Y	Y	Y				yes
04.69	Broadcast Call Control (BCC) protocol	N1			Y	Y	Y	Y				yes
04.70	Payphone services - stage 3				w							
04.71	Location Services (LCS); Mobile radio interface layer 3 specification	G2					Y	Y				yes
04.72	Call Deflection (CD) Supplementary Service; Stage 3	N4					Y					yes
04.73	Malicious Call Identification (MCID); Stage 3				w							
04.78	Customised Applications for Mobile network Enhanced Logic (CAMEL); Stage 3				w							
04.79	Support of optimal routing; Stage 3				w							
04.80	Mobile Radio Interface Layer 3 - Supplementary Services Specification Formats and Coding	N4	Y	Y	Y	Y	Y					yes
04.81	Line Identification Supplementary Services; Stage 3	N4		Y	Y	Y	Y					yes
04.82	Call Forwarding (CF) Supplementary Services; Stage 3	N4	Y	Y	Y	Y	Y					yes
04.83	Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 3	N4		Y	Y	Y	Y					yes
04.84	Multi Party (MPTY) Supplementary Services; Stage 3	N4		Y	Y	Y	Y					yes
04.85	Closed User Group (CUG) Supplementary Services;	N4		Y	Y	Y	Y					yes

Number	Title	WG	Ph1	Ph2	R96	R97	R98	R99	Rel-4	Rel-5	Rel-6	active
	Stage 3											
04.86	Advice of Charge (AoC) Supplementary Services; Stage 3	N4		Y	Y	Y	Y					yes
04.87	User-to-User Signalling (UUS) Supplementary Service; Stage 3	N4					Y					yes
04.88	Call Barring (CB) Supplementary Services; Stage 3	N4	Y	Y	Y	Y	Y					yes
04.90	Unstructured Supplementary Service Data (USSD)	N4		Y	Y	Y	Y					yes
04.91	Explicit Call Transfer (ECT) Supplementary Service; Stage 3	N4			Y	Y	Y					yes
04.93	Completion of Calls to Busy Subscriber (CCBS); Stage 3	N4				Y	Y					yes
04.94	Follow Me Service description; Stage 3	-						w				
04.96	Name Identification Supplementary Services; Stage 3	N4				Y	Y					yes
04.98	New barring services; Stage 3				w							
04.99	Direct subscriber access and restriction; Stage 3				w							
05.00	Service to GSM handportables in trains	-			w							
05.01	Physical Layer on the Radio Path (General Description)	G1	Y	Y	Y	Y	Y	Y				yes
05.02	Multiplexing and Multiple Access on the Radio Path	G1	Y	Y	Y	Y	Y	Y				yes
05.03	Channel coding	G1	Y	Y	Y	Y	Y	Y				yes
05.04	Modulation	G1	Y	Y	Y	Y	Y	Y				yes
05.05	Radio Transmission and Reception	G1	Y	Y	Y	Y	Y	Y				yes
05.08	Radio Subsystem Link Control	G1	Y	Y	Y	Y	Y	Y				yes
05.09	Link adaptation	G1					Y	Y				yes
05.10	Radio subsystem synchronization	G1	Y	Y	Y	Y	Y	Y				yes
05.14	Release independent frequency bands; Implementation guidelines	G1				Y	Y	w				yes
05.18	Hands free mobile station				w							
05.19	Service to GSM handportables in trains				w							
05.20	Fast moving Mobile Station (study)				w							
05.21	DCS 1800; 4 Watt Mobile Power Class - study					w						
05.22	Radio link management in hierarchical networks	G1		Y	Y	Y	Y	Y				yes
05.30	General packet radio service requirements				w							
05.50	Background for RF Requirements	G1		Y	Y	Y	Y	Y				yes
05.56	CTS-FP Radio Sub-system	G1					Y	Y				yes
05.90	GSM Electromagnetic Compatibility (EMC) considerations	G1		Y	Y	Y	Y					yes
06.01	Full Rate Speech Processing Functions	S4	Y	Y	Y	Y	Y	Y				yes
06.02	Half Rate Speech Processing Functions	S4		Y	Y	Y	Y	Y				yes
06.06	Half Rate Speech: ANSI-C Code for GSM Half Rate Speech Codec	S4		Y	Y	Y	Y	Y				yes
06.07	Half Rate Speech: Test Sequence for GSM Half Rate Speech Codec	S4		Y	Y	Y	Y	Y				yes
06.08	Half Rate Speech; Performance Characterization of the GSM Half Rate speech codec	S4		Y	Y	Y	Y	Y				yes
06.10	Full Rate Speech Transcoding	S4	Y	Y	Y	Y	Y	Y				yes

Number	Title	WG	Ph1	Ph2	R96	R97	R98	R99	Rel-4	Rel-5	Rel-6	active
06.11	Substitution and Muting of Lost Frames for Full Rate Speech Channels	S4	Y	Y	Y	Y	Y	Y				yes
06.12	Comfort Noise Aspects for Full Rate Speech Traffic Channels	S4	Y	Y	Y	Y	Y	Y				yes
06.20	Half Rate Speech Transcoding	S4		Y	Y	Y	Y	Y				yes
06.21	Half rate speech; Substitution and muting of lost frames for half rate speech traffic channels	S4		Y	Y	Y	Y	Y				yes
06.22	Comfort Noise Aspects for Half Rate Speech Traffic Channels	S4		Y	Y	Y	Y	Y				yes
06.31	Discontinuous Transmission (DTX) for Full Rate Speech Traffic Channels	S4	Y	Y	Y	Y	Y	Y				yes
06.32	Voice Activity Detection (VAD)	S4	Y	Y	Y	Y	Y	Y				yes
06.41	Discontinuous Transmission (DTX) for Half Rate Speech Traffic Channels	S4		Y	Y	Y	Y	Y				yes
06.42	Voice Activity Detection (VAD) for Half Rate Speech Traffic Channels	S4		Y	Y	Y	Y	Y				yes
06.51	GSM Enhanced full rate speech processing functions: General description	S4		Y	Y	Y	Y	Y				yes
06.53	ANSI-C code for the GSM Enhanced full rate speech codec	S4		Y	Y	Y	Y	Y				yes
06.54	Test sequences for the GSM Enhanced Full Rate (EFR)	S4		Y	Y	Y	Y	Y				yes
06.55	Performance characterisation of the GSM EFR Speech Codec	S4		Y	Y	Y	Y	Y				yes
06.60	Enhanced full rate speech transcoding	S4		Y	Y	Y	Y	Y				yes
06.61	Substitution and muting of lost frames for enhanced full rate speech traffic channels	S4		Y	Y	Y	Y	Y				yes
06.62	Comfort noise aspects for Enhanced Full Rate (EFR) speech traffic channels	S4		Y	Y	Y	Y	Y				yes
06.71	Adaptive Multi-Rate speech processing functions; General description	S4					Y					yes
06.73	Adaptive Multi Rate (AMR) speech; ANSI-C code for the AMR speech codec	S4					Y					yes
06.74	Test sequences for the GSM Adaptive Multi Rate (AMR) speech codec	S4					Y					yes
06.75	Performance characterization of the GSM Adaptive Multi-Rate (AMR) speech codec	S4					Y					yes
06.76	Adaptive Multi-Rate (AMR) speech codec; Study phase report	S4					Y	Y				yes
06.77	Minimum Performance Requirements for Noise Suppressor Application to the AMR Speech Encoder	S4						Y				yes
06.78	Results of the AMR noise suppression selection phase	S4						Y				yes
06.81	Discontinuous Transmission (DTX) for enhanced full rate speech traffic channels	S4		Y	Y	Y	Y	Y				yes
06.82	Voice Activity Detection (VAD) for enhanced full rate speech traffic channels	S4		Y	Y	Y	Y	Y				yes
06.85	Subjective tests on the interoperability of the HR/FR/EFR speech codecs; single, tandem and tandem free operation	S4			Y	Y	Y	Y				yes
06.90	Adaptive Multi-Rate speech transcoding	S4					Y					yes

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06.91	Substitution and muting of lost frames for AMR speech traffic channels	S4					Y					yes
06.92	Comfort noise aspects for Adaptive Multi-Rate speech traffic channels	S4					Y					yes
06.93	Discontinuous Transmission (DTX) for Adaptive Multi-Rate speech traffic channels	S4					Y					yes
06.94	Voice Activity Detector (VAD) for Adaptive Multi Rate (AMR) speech traffic channels	S4					Y					yes
07.01	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	N3	Y	Y	Y	Y	Y	w				yes
07.02	Terminal Adaptation Functions (TAF) for Services Using Asynchronous Bearer Capabilities	N3	Y	Y	Y	Y	Y	w				yes
07.03	Terminal Adaptation Functions (TAF) for Services Using Synchronous Bearer Capabilities	N3	Y	Y	Y	Y	Y	w				yes
07.05	Use of Data Terminal Equipment - Data Circuit Terminating Equipment (DTE-DCE) Interface for Short Message Services (SMS) and Cell Broadcast Services (CBS)	T2		Y	Y	Y	Y					yes
07.06	Use of the V Series Data Terminal Equipment - Data Circuit Terminating Equipment (DTE-DCE) Interface at the Mobile Station (MS) for Mobile Termination (MT) configuration	T2		w								
07.07	AT Command set for GSM Mobile Equipment (ME)	T2		Y	Y	Y	Y					yes
07.08	GSM Application Programming Interface	T2			Y			w				yes
07.10	Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol	T2				Y	Y					yes
07.57	Mobile Station Application Execution Environment (MExE); Stage 3				w							
07.60	General Packet Radio Service (GPRS); Mobile Station (MS) supporting GPRS	N3			Y	Y	Y					yes
08.01	General Aspects on the BSS-MSC Interface	G2	Y	Y	Y	Y	Y	Y				yes
08.02	Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface - Interface Principles	G2	Y	Y	Y	Y	Y	Y				yes
08.04	Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface Layer 1 Specification	G2	Y	Y	Y	Y	Y	Y				yes
08.06	Signalling Transport Mechanism Specification for the Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface	G2	Y	Y	Y	Y	Y	Y				yes
08.08	Mobile-services Switching Centre - Base Station system (MSC-BSS) Interface Layer 3 Specification	G2	Y	Y	Y	Y	Y	Y				yes
08.14	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) interface; Gb Interface Layer 1	G2			w	Y	Y	Y				yes
08.16	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN)	G2			w	Y	Y	Y				yes

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	Interface; Network Service											
08.18	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN); BSS GPRS Protocol	G2			Y	Y	Y	Y				yes
08.20	Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface	N3	Y	Y	Y	Y	Y	Y				yes
08.31	Location Services LCS: Serving Mobile Location Centre - Serving Mobile Location Centre (SMLC - SMLC); SMLCPP specification	G2					Y	Y				yes
08.51	Base Station Controller - Base Transceiver Station (BSC-BTS) Interface General Aspects	G2	Y	Y	Y	Y	Y	Y				yes
08.52	Base Station Controller - Base Transceiver Station (BSC-BTS) Interface - Interface Principles	G2	Y	Y	Y	Y	Y	Y				yes
08.54	BSC-BTS Layer 1; Structure of Physical Circuits	G2	Y	Y	Y	Y	Y	Y				yes
08.56	BSC-BTS Layer 2; Specification	G2	Y	Y	Y	Y	Y	Y				yes
08.58	Base Station Controller - Base Transceiver Station (BSC-BTS) Interface Layer 3 Specification	G2	Y	Y	Y	Y	Y	Y				yes
08.59	BSC-BTS O&M Signalling Transport	G3	Y	w								yes
08.60	In-band control of remote transcoders and rate adaptors for Enhanced Full Rate (EFR) and full rate traffic channels	G1	Y	Y	Y	Y	Y	Y				yes
08.61	In-band control of remote transcoders and rate adaptors for half rate traffic channels	G1		Y	Y	Y	Y	Y				yes
08.62	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	S4					Y	Y				yes
08.64	GPRS support node - BSS protocol (SGSN_BSS) interface; BSSGP layer 3					w						
08.71	Location Services (LCS); Serving Mobile Location Centre - Base Station System (SMLC-BSS) interface; Layer 3	G2					Y	Y				yes
09.01	General Network Interworking Scenarios	N4	Y	Y	Y	Y	Y	Y				yes
09.02	Mobile Application Part (MAP) Specification	N4	Y	Y	Y	Y	Y					yes
09.03	Signalling Requirements on Interworking between the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) and the Public Land Mobile Network (PLMN)	N3	Y	Y	Y	Y	Y					yes
09.04	Interworking between the Public Land Mobile Network (PLMN) and the Circuit Switched Public Data Network (CSPDN)	N3	Y	Y	Y	Y	Y					yes
09.05	Interworking between the PLMN and the PSPDN for PAD Access	N3	Y	Y	Y	Y	Y					yes
09.06	Interworking between a Public Land Mobile Network (PLMN) and a Packet Switched Public Data Network/Integrated Services digital Network (PSPDN/ISDN) for Support of Packet Switched Data Transmission Services	N3		Y	Y	Y	Y					yes

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09.07	General Requirements on Interworking between the Public Land Mobile Network (PLMN) and the Intergrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)	N3	Y	Y	Y	Y	Y	w				yes
09.08	Application of the Base Station System Application Part (BSSAP) on the E-Interface	N1		Y	Y	Y	Y	Y				yes
09.09	Detailed Signalling Interworking within the PLMN and with the PSTN/ISDN	N4	Y									yes
09.10	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	Y	Y	Y	Y	Y					yes
09.11	Signalling Interworking for Supplementary Services	N4	Y	Y	Y	Y	Y					yes
09.12	Application of ISUP Version 2 for the ISDN-PLMN (GSM) Signalling	SPAN3		Y	w							yes
09.13	Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols	N4				Y	Y					yes
09.14	Application of ISUP Version 3 for the ISDN-PLMN (GSM) Signalling	SPAN3					Y	w				yes
09.16	General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface network service specification	N1				Y	Y					yes
09.18	General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification	N1				Y	Y	w				yes
09.20	Support of Shared Data Interworking Function				w							
09.31	Location Services (LCS); Base Station System Application Part LCS Extension (BSSAP-LE)	G2					Y	Y				yes
09.60	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol GPT) across the Gn and Gp Interface	N4			w	Y	Y					yes
09.61	General Packet Radio Service (GPRS); Interworking between the Public Land Mobile Network (PLMN) supporting GPRS and Packet Data Networks (PDN)	N3				Y	Y					yes
09.78	CAMEL Application Part phase 2 (stage 3)	N2			Y	Y	Y					yes
09.90	Interworking between Phase 1 Infrastructure and Phase 2 Mobile Stations (MS)	N1		Y	Y	w						yes
09.91	Interworking Aspects of the SIM/ME Interface Between Phase 1 and Phase 2	T3		Y								yes
09.92	GSM Phase 1 Mobile Station interworking with Phase 2 Networks			w								
09.94	Recommended infrastructure measures to overcome	N1		Y	Y	Y	Y	w				yes

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	specific Mobile Station (MS) faults											
09.95	Interworking between modified PLMN supporting GPRS and legacy GPRS mobiles	G1				Y	Y					yes
10.00	Digital Cellular Telecommunication System Feature Description	S2			Y		Y					yes
10.01	GSM features and releases	-				w						
10.02	Guidelines for the modification of the Mobile Application Part (MAP) in phase 2+	N4			Y	Y						yes
10.14	System overview for 14.4 kbit/s Work Item	S2			Y							yes
10.17	General Packet Radio Service (GPRS); Charging in GPRS	-				w						
10.20	Lawful Interception requirements for GSM	S3			Y	w						
10.43	Support of Localised Service Area (SoLSA); Work Item Status	S1						w				
10.56	Project scheduling and open issues: GSM Cordless Telephony System CTS, Phase 1	S2					Y	Y				yes
10.57	Project scheduling and open issues: Mobile Station Execution Environment (MExE)	T2					w	w				
10.59	Project scheduling and open issues for EDGE	G1						Y				yes
10.60	General Packet Radio Services (GPRS); Project Scheduling and Open Issues	S2			w	w						
10.66	Support of Mobile Number Portability (MNP); Project plan	S1			w							yes
10.68	Introduction to the services: enhanced Multi-Level Precedence and Pre-emption (eMLPP), Voice Group Call Service (VGCS), Voice Broadcast Service (VBS)	S2			w							
10.70	GSM Adaptive Multi-Rate Speech Codec (AMR); Project schedule and open issues for AMR	S4					Y					yes
10.71	Project scheduling and open issues: Location services (LCS)	S1					w					yes
10.76	Noise suppression for the AMR codec; Project scheduling and open issues	S4						w				
10.78	Project scheduling and open issues: CAMEL	S2					w					
10.87	User to User Signalling (UUS)	S2					w					
10.89	GSM to other Systems Handover and Cell Selection/Reselection; Project scheduling and open issues;	GP						w				
10.94	Follow Me supplementary service	SP					w					
10.99	GERAN project plan and open issues											
11.01	Mobile station type approval procedure principles (Candidate NET 10 part 1)		w									
11.10	Mobile Station Conformity Specification	G4	Y									yes
11.10-1	Mobile station (MS) conformance specification; Part1: Conformance specification	G5		Y	Y	Y	Y	Y				yes
11.10-2	Mobile station (MS) conformance specification; Part 2: Protocol Implementation Conformance	G5		Y	w	w	w	w				yes

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	Statement (PICS) proforma specification											
11.10-3	Mobile Station (MS) Conformance Specification; Part 3: Layer3 (L3) Abstract Test Suite (ATS)	G5		Y	Y	w	w	w				yes
11.10-4	Mobile Station (MS) Conformance Specification; Part 4: SIM Application Toolkit conformance specification	G5			Y	w	w	Y				yes
11.11	Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) Interface	T3	Y	Y	Y	Y	Y	Y				yes
11.12	Specification on the 3 Volt subscriber identity module Equipment (SIM-ME) Interface	T3		Y	w							yes
11.13	Test specification for SIM API for Java card	T3					Y	w				yes
11.14	Specification of the SIM Application Toolkit for the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface	T3			Y	Y	Y	Y				yes
11.16	Conformity Specifications for Transparent Facsimile Group 3 Adaptors			w								
11.17	SIM test specification	T3					Y	w				yes
11.18	Specification of the 1.8 Volt Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface	T3					Y	w				yes
11.19	CTS SIM Fixed Part	T3					Y					yes
11.20	GSM DCS 1800 Base Station Specification	GP	w									yes
11.20	GSM DCS 1800 Base Station Specification	GP	Y									yes
11.21	Base Station System (BSS) equipment specification; Radio aspects	G3		Y	Y	Y	Y	Y				yes
11.22	GSM Base Station and Ancillary Equipment, Physical and Electrical Parameters, Application of Standards and Guidance Notes	G3		Y								yes
11.23	GSM Signalling Aspects Base Station System equipment Specification	G3		Y								yes
11.24	GSM Transcoding and Rate Adaptation: Base Station System Equipment Specification	G3		Y								yes
11.25	The GSM Base Station System (BSS) Equipment specification Half-rate speech	G3		w								
11.26	Base Station System (BSS) equipment specification; Part 4: Repeaters	G3		Y	Y	Y	Y	Y				yes
11.30	Mobile Services Switching Centre	GP	Y									yes
11.31	Home Location Register Specification	GP	Y									yes
11.32	Visitor Location Register Specification	GP	Y									yes
11.40	DCS 1800 System Simulator Conformity Specification	G4	Y									yes
11.56	CTS phase 1, CTS Fixed Part Tests	-				w						
12.00	Objectives and Structure of GSM Public Land Mobile Network (PLMN) Management	S5		Y								yes
12.01	Network Management (NM); Part 2: Common aspects of SM/DCS 1800 Network Management	S5		Y								yes
12.02	Subscriber, Mobile Equipment	S5		Y	Y							yes

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	(ME) and Services Data Administration											
12.03	Security Management	S5		Y	w	w	Y	Y				yes
12.04	Performance data measurements	S5		Y	w	w	Y	Y				yes
12.05	Subscriber Related Call and Event Data	S5		Y	Y	Y	Y					yes
12.06	Network Configuration Management and Administration	S5		Y								yes
12.07	Public Land Mobile Network (PLMN) Quality of Service (QoS)	-	w	w								
12.08	Subscriber and Equipment trace	S5		Y	Y							yes
12.10	Maintenance Provisions for Operational Integrity of MSs	S5	Y									yes
12.11	Fault management of the Base Station System (BSS)	S5		Y		Y						yes
12.13	Maintenance of the Mobile-services Switching Centre	S5	Y									yes
12.14	Maintenance of Location Registers	S5	Y									yes
12.15	General Packet Radio Service (GPRS); GPRS Charging	S5				Y	Y					yes
12.20	Base Station System (BSS) Management Information	S5		Y								yes
12.21	Network Management (NM) procedures and messages on the A-bis interface	G3		Y	Y	Y	Y	Y				yes
12.22	Interworking of GSM Network Management (NM) Procedures and Messages at the Base Station Controller (BSC)	G3		Y								yes
12.30	ETSI Object Identifier Tree; Mobile Domain O&M	S5		Y								yes
12.71	Location Services (LCS); Location services management	S5					Y	Y				yes
13.01	Attachment requirements for Global System for Mobile communications (GSM); Part 1: Mobile stations in the GSM 900 and DCS 1 800 bands; Access	MSG		Y								yes
13.01-1	Attachment requirements for Global System for Mobile communications (GSM) mobile stations; Access	MSG		Y								yes
13.01-2	Attachment requirements for mobile stations in the DCS 1800 band and additional GSM 900 band; Access	MSG		Y								yes
13.02	Attachment requirements for mobile stations in the DCS 1800 band and additional GSM 900 band; Access	MSG		Y								yes
13.02-1	Attachment requirements; Telephony	MSG-GSM		w								
13.02-2	Attachment requirements (CDCS 1800); Telephony	MSG-GSM		w								
13.11	Mobiles stations in the GSM 900 and DCS 1800 bands covering essential requirements under article 3.2 of the R&TTE Directive	MSG					Y					yes
13.21	Base station systems and repeater equipment covering essential requirements under article 3.2 of the R&TTE directive	MSG					Y	Y				yes
13.34	Attachment requirements for Global System for Mobile communications (GSM); High Speed Circuit Switched Data	MSG			Y							yes

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	(HSCSD) Multislot Mobile Stations; Access											
13.55	Attachment requirements for Cordless Telephony System Fixed Part (CTS-FP); Access	-			w							
13.56	Cordless Telephony System Mobile Stations (CTS-MS); Access	-			w							
13.57	unknown				w							
13.59	Enhanced Data rates for GSM Evolution (EDGE) Mobile Stations; Access	MSG			w							
13.60	Attachment requirements for Global System for Mobile communications (GSM); General Packet Radio Service (GPRS); Mobile stations; Access	MSG			w							
13.67	Attachment requirements for Global System for Mobile communications (GSM); Railways Band (R-GSM); Mobile Stations; Access	MSG			Y							yes
13.68	Attachment requirements for Global System for Mobile communications (GSM); Advanced Speech Call Items (GSM-ASCI) Mobile Stations; Access	MSG			Y							yes
21.010	reserved	SP						w				
21.01U	Overall requirements on the radio interface(s) of the UMTS	GP										
21.02U	High level requirements relevant for the definition of the UMTS Terrestrial Radio Access UTRA concept	GP										
21.04U	Requirements for the support of data services in UMTS	-										
21.06U	O&M requirements for the UMTS	-										
21.100	3G specification handling procedures	-						w				
21.101	3rd Generation mobile system Release 1999 Specifications	SP						Y				yes
21.102	3rd Generation mobile system Release 4 specifications	SP							Y			yes
21.103	3rd Generation mobile system Release 5 specifications	SP								Y		yes
21.104	3rd Generation mobile system Release 6 specifications	SP									Y	yes
21.111	USIM and IC card requirements	T3						Y	Y	Y		yes
21.133	3G security; Security threats and requirements	S3						Y	Y			yes
21.801	Specification drafting rules	SP							Y	Y		yes
21.810	Report on multi-mode UE issues; ongoing work and identified additional work	T2						Y				yes
21.877	Radio optimization impacts on the Packet Switched (PS) domain architecture	S2								Y		yes
21.900	Technical Specification Group working methods	SP						Y	Y	Y		yes
21.904	User Equipment (UE) capability requirements	T2						Y				yes
21.905	Vocabulary for 3GPP Specifications	S1						Y	Y	Y		yes
21.906	reserved							w				
21.910	Multi-mode UE issues; categories, principles and procedures	T2						Y				yes
21.978	Feasibility Technical Report; CAMEL Control of VoIP Services	N2						Y				yes
22.001	Principles of circuit	S1						Y	Y	Y		yes

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	telecommunication services supported by a Public Land Mobile Network (PLMN)											
22.002	Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN)	S1						Y	Y	Y		yes
22.003	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	S1						Y	Y	Y		yes
22.004	General on Supplementary Services	S1						Y	Y	Y		yes
22.00U	UMTS Phase 1	-										
22.011	Service accessibility	S1						Y	Y	Y		yes
22.016	International Mobile Equipment Identities (IMEI)	S1						Y	Y	Y		yes
22.01U	Universal Mobile Telecommunications System (UMTS): Service aspects; Service principles	-										
22.022	Personalisation of Mobile Equipment (ME); Mobile functionality specification	S3						Y	Y			yes
22.024	Description of Charge Advice Information (CAI)	S1						Y	Y	Y		yes
22.030	Man-Machine Interface (MMI) of the User Equipment (UE)	S1						Y	Y	Y		yes
22.032	Immediate Service Termination (IST); Service description; Stage 1	S3						Y	Y	Y		yes
22.034	High Speed Circuit Switched Data (HSCSD); Stage 1	S1						Y	Y	Y		yes
22.038	USIM/SIM Application Toolkit (USAT/SAT); Service description; Stage 1	S1						Y	Y	Y		yes
22.041	Operator Determined Call Barring	S1						Y	Y	Y		yes
22.042	Network Identity and Time Zone (NITZ) service description; Stage 1	S1						Y	Y	Y		yes
22.043	Support of Localized Service Area (SoLSA); Service description; Stage 1	S1						w	w			
22.048	Security Mechanisms for the (U)SIM application toolkit; Stage 1	T3							Y			yes
22.053	Tandem Free Operation (TFO); Service description; Stage 1	S4						w	Y	Y		yes
22.057	Mobile Execution Environment (MExE) service description; Stage 1	S1						Y	Y	Y		yes
22.05U	Services and service capabilities	-										
22.060	General Packet Radio Service (GPRS); Service description; Stage 1	S1						Y	Y	Y		yes
22.066	Support of Mobile Number Portability (MNP); Stage 1	S1						Y	Y	Y		yes
22.067	enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 1	S1						Y	Y	Y		yes
22.071	Location Services (LCS); Stage 1	S1						Y	Y	Y	Y	yes
22.072	Call Deflection (CD); Stage 1	S1						Y	Y	Y		yes
22.076	Noise suppression for the AMR codec; Service description; Stage 1	S4							Y	Y		yes
22.078	Customized Applications for Mobile network Enhanced Logic (CAMEL); Service description; Stage 1	S1						Y	Y	Y		yes
22.079	Support of optimal routing; Stage 1	S1						Y	Y	Y		yes
22.07U	UMTS terminal and smart card concepts	-										

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22.081	Line Identification supplementary services; Stage 1	S1						Y	Y	Y		yes
22.082	Call Forwarding (CF) Supplementary Services; Stage 1	S1						Y	Y	Y		yes
22.083	Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 1	S1						Y	Y	Y		yes
22.084	MultiParty (MPTY) supplementary service; Stage 1	S1						Y	Y	Y		yes
22.085	Closed User Group (CUG) supplementary services; Stage 1	S1						Y	Y	Y		yes
22.086	Advice of Charge (AoC) supplementary services; Stage 1	S1						Y	Y	Y		yes
22.087	User-to-user signalling (UUS); Stage 1	S1						Y	Y	Y		yes
22.088	Call Barring (CB) supplementary services; Stage 1	S1						Y	Y	Y		yes
22.090	Unstructured Supplementary Service Data (USSD); Stage 1	S1						Y	Y	Y		yes
22.091	Explicit Call Transfer (ECT) supplementary service; Stage 1	S1						Y	Y	Y		yes
22.093	Completion of Calls to Busy Subscriber (CCBS); Service description, Stage 1	S1						Y	Y	Y		yes
22.094	Follow Me service description - Stage 1	S1						Y	Y	Y		yes
22.096	Name identification supplementary services; Stage 1	S1						Y	Y	Y		yes
22.097	Multiple Subscriber Profile (MSP) Phase 1; Service description - Stage 1	S1						Y	Y	Y		yes
22.100	UMTS Phase 1	S1						Y				yes
22.101	Service aspects; Service principles	S1						Y	Y	Y	Y	yes
22.105	Services & service capabilities	S1						Y	Y	Y		yes
22.112	USIM toolkit interpreter; Stage 1	T3							w	Y		yes
22.115	Service Aspects Charging and billing	S1						Y	Y	Y		yes
22.121	Service aspects; The Virtual Home Environment; Stage 1	S1						Y	Y	Y		yes
22.127	Service Requirement for the Open Services Access (OSA); Stage 1	S1							Y	Y	Y	yes
22.129	Handover requirements between UTRAN and GERAN or other radio systems	S1						Y	Y	Y		yes
22.135	Multicall; Service description; Stage 1	S1						Y	Y	Y		yes
22.140	Multimedia Messaging Service (MMS); Stage 1	S1						Y	Y	Y	Y	yes
22.141	Presence service; Stage 1	S1								w	Y	yes
22.146	Multimedia Broadcast/Multicast Service (MBMS); Stage 1	S1								w	Y	yes
22.174	Push service; Stage 1	S1								w	Y	yes
22.177	Speech-enabled services; Stage 1	S1									Y	yes
22.21U	Virtual Home Environment	-										
22.226	Global text telephony (GTT); Stage 1: Service description	S1								Y		yes
22.227	Service requirements for the Open Service Access (OSA)	S1							w			
22.228	Service requirements for the Internet Protocol (IP) multimedia core network subsystem; Stage 1	S1								Y	Y	yes

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22.233	Transparent end-to-end packet-switched streaming service; Stage 1	S1								Y		yes
22.234	(reserved for future WLAN I/w stage 1)											
22.240	3GPP Generic User Profile (GUP) requirements; Stage 1	S1								w	Y	yes
22.242	Digital Rights Management (DRM); Stage 1	S1									Y	yes
22.243	Distributed speech recognition based automated voice services	S1								w	Y	yes
22.24U	Charging and Accounting Mechanism	-										
22.250	IP Multimedia Subsystem (IMS) Group Management; Stage 1	S1									Y	yes
22.25U	Quality of Service (QoS) and network performance	-										
22.29U	Handover Requirements between UMTS and GSM or other RadioSystems	-										
22.30U	Service requirements on security											
22.35U	Service requirements on numbering, addressing and identities											
22.40U	Charging, billing and accounting principles											
22.45U	Human Factors, service principles and their application to UMTS											
22.50U	Subscriber and service profile requirements											
22.55U	UMTS user identity modules											
22.60U	Mobile multimedia services including mobile Intranet and Internet services	-										
22.70U	Virtual Home Environment	-										
22.71U	Service aspects; Automatic Establishment of Roaming Relationships	-										
22.72U	Real Time Multimedia in UMTS	-										
22.75U	Service aspects; Advanced addressing	-										
22.80U	UMTS Relationship to other Standards	-										
22.857	Run-time independent framework feasibility study	T2									Y	yes
22.907	Terminal concepts	-						w				
22.924	Charging and accounting mechanisms	-						w				
22.925	Quality of Service (QoS) and network performance	-						w				
22.928	IP-based multimedia services examples	S1								Y		yes
22.934	Feasibility study on 3GPP system to Wireless Local Area Network (WLAN) interworking	S1									Y	yes
22.940	IP Multimedia Subsystem (IMS) messaging; Stage 1	S1									Y	yes
22.941	IP based multimedia framework; Stage 0	S1								Y		yes
22.944	Service requirements for UE functionality split	S1								Y		yes
22.945	Study of provision of fax service in GSM and UMTS	T2						Y				yes
22.946	Broadcast and multicast services	S1								w		
22.950	Priority service feasibility study	S1									Y	yes
22.951	Network sharing	S1									Y	yes
22.960	Mobile multimedia services	-						w				
22.970	Virtual Home Environment	-						w				

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	Report											
22.971	Automatic establishment of roaming relationships	S1						Y				yes
22.972	Circuit-switched multimedia	-						w				
22.975	Advanced addressing	S1						Y				yes
22.976	Study on PS domain services and capabilities	S1							w	Y		yes
22.977	Feasibility study for speech-enabled services	S1									Y	yes
23.002	Network Architecture	S2						Y	Y	Y		yes
23.003	Numbering, Addressing and Identification	N4						Y	Y	Y		yes
23.007	Restoration procedures	N4						Y	Y	Y		yes
23.008	Organisation of subscriber data	N4						Y	Y	Y		yes
23.009	Handover procedures	N1						Y	Y	Y		yes
23.010	GSM Public Land Mobile Network (PLMN) Connection Types	-						w				
23.011	Technical realization of Supplementary Services	N4						Y	Y	Y		yes
23.012	Location management procedures	N4						Y	Y	Y		yes
23.014	Support of Dual Tone Multi Frequency (DTMF) signalling	N1						Y	Y	Y		yes
23.015	Technical realisation of Operator Determined Barring (ODB)	N4						Y	Y	Y		yes
23.016	Subscriber data management; Stage 2	N4						Y	Y	Y		yes
23.018	Basic Call Handling; Technical realization	N4						Y	Y	Y		yes
23.01U	UMTS Network principles	-										
23.022	Functions related to Mobile Station (MS) in idle mode and group receive mode	-						w				
23.032	Universal Geographical Area Description (GAD)	S2						Y	Y			yes
23.034	High Speed Circuit Switched Data (HSCSD); Stage 2	N1						Y	Y	Y		yes
23.035	Immediate Service Termination (IST); Stage 2	S3						Y	Y	Y		yes
23.038	Alphabets and language-specific information	T2						Y	Y	Y		yes
23.039	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	T2						Y	Y	Y		yes
23.040	Technical realization of Short Message Service (SMS)	T2						Y	Y	Y		yes
23.041	Technical realization of Cell Broadcast Service (CBS)	T2						Y	Y	Y		yes
23.042	Compression algorithm for SMS	T2						Y	Y	Y		yes
23.043	Support of Videotex	-						w				
23.044	Support of Teletex	-						w				
23.045	Technical Realization of Facsimile Group 3 Service - transparent	-						w				
23.046	Technical realisation of facsimile Group 3 service - non-transparent	-						w				
23.048	Security Mechanisms for the (U)SIM application toolkit; Stage 2	T3							Y	Y		yes
23.053	Tandem Free Operation (TFO); Service description; Stage 2	S4							Y	Y		yes
23.054	Shared Interworking Functions (SIWF); Stage 2	N3						w				
23.057	Mobile Execution Environment (MExE); Functional description; Stage 2	T2						Y	Y	Y	Y	yes

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23.05U	UMTS Network principles	-										
23.060	General Packet Radio Service (GPRS) Service description; Stage 2	S2						Y	Y	Y		yes
23.066	Support of GSM Mobile Number Portability (MNP) stage 2	N4						Y	Y	Y		yes
23.067	Enhanced Multi-Level Precedence and Preemption Service (EMLPP); Stage 2	N4						Y	Y	Y		yes
23.069	Voice Broadcast service (VBS); Stage 2	N1						w				
23.070	Routeing of calls to/from Public Data Networks (PDN) and the GSM Public Land Mobile Network (PLMN)	-						w				
23.071	Location services (LCS) stage 2	-						w				
23.072	Call Deflection Supplementary Service; Stage 2	N4						Y	Y	Y		yes
23.073	Support of Localised Service Area (SoLSA); Stage 2	N4						w	w	w		
23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL); Stage 2	N2						Y	Y	Y		yes
23.079	Support of Optimal Routeing (SOR); Technical realization; Stage 2	N4						Y	Y	Y		yes
23.081	Line Identification supplementary services; Stage 2	N4						Y	Y	Y		yes
23.082	Call Forwarding (CF) Supplementary Services; Stage 2	N4						Y	Y	Y		yes
23.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 2	N4						Y	Y	Y		yes
23.084	MultiParty (MPTY) Supplementary Service; Stage 2	N4						Y	Y	Y		yes
23.085	Closed User Group (CUG) Supplementary Service; Stage 2	N4						Y	Y	Y		yes
23.086	Advice of Charge (AoC) Supplementary Service; Stage 2	N4						Y	Y	Y		yes
23.087	User-to-User Signalling (UUS) supplementary service; Stage 2	N4						Y	Y	Y		yes
23.088	Call Barring (CB) Supplementary Service; Stage 2	N4						Y	Y	Y		yes
23.090	Unstructured Supplementary Service Data (USSD); Stage 2	N4						Y	Y	Y		yes
23.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 2	N4						Y	Y	Y		yes
23.093	Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2	N4						Y	Y	Y		yes
23.094	Follow Me Stage 2	N4						Y	Y	Y		yes
23.096	Name Identification Supplementary Service; Stage 2	N4						Y	Y	Y		yes
23.097	Multiple Subscriber Profile (MSP) Phase 1; Stage 2	N4						Y	Y	Y		yes
23.101	General UMTS Architecture	S2						Y	Y			yes
23.107	Quality of Service (QoS) concept and architecture	S2						Y	Y	Y		yes
23.108	Mobile radio interface layer 3 specification core network protocols; Stage 2 (structured procedures)	N1						Y	Y	Y		yes
23.10U	UMTS Access Stratum; Services and Functions	-										

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23.110	UMTS Access Stratum Services and Functions	S2						Y	Y			yes
23.116	Super-Charger technical realization; Stage 2	N4						Y	Y	Y		yes
23.119	Gateway Location Register (GLR); Stage2	N4						Y	Y	Y		yes
23.121	Architectural requirements for Release 1999	S2						Y		w		yes
23.122	Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	N1						Y	Y	Y		yes
23.127	Virtual Home Environment (VHE) / Open Service Access (OSA); Stage 2	S2						Y	Y	Y	Y	yes
23.135	Multicall supplementary service; Stage 2	N4						Y	Y	Y		yes
23.140	Multimedia Messaging Service (MMS); Functional description; Stage 2	T2						Y	Y	Y		yes
23.141	Presence service; Architecture and functional description; Stage 2	S2									Y	yes
23.146	Technical realisation of facsimile Group 3 service - non-transparent	N3							Y	Y		yes
23.153	Out of Band Transcoder Control; Stage 2	N4							Y	Y		yes
23.171	Functional stage 2 description of location services (LCS) in UMTS	S2						Y	w			yes
23.172	Technical realization of Circuit Switched (CS) multimedia service; UDI/RDI fallback and service modification; Stage 2	N3								Y		yes
23.174	Push service; stage 2	S2								Y		yes
23.178	Customised Applications for Mobile network Enhanced Logic (CAMEL) - IP Multimedia System (IMS) interworking; Stage 2	N2								w		
23.205	Bearer-independent circuit-switched core network; Stage 2	N4							Y	Y		yes
23.207	End to end Quality of Service (QoS) concept and architecture	S2							w	Y		yes
23.20U	Evolution of the GSM platform towards UMTS	S2										
23.218	IP Multimedia (IM) session handling; IM call model; Stage 2	N1								Y		yes
23.221	Architectural requirements	S2							Y	Y		yes
23.226	Global text telephony (GTT); Stage 2: Architecture	S2								Y		yes
23.227	Application and user interaction in the UE; Principles and specific requirements	T2							Y	Y		yes
23.228	IP Multimedia Subsystem (IMS); Stage 2	S2								Y	Y	yes
23.234	(reserved for future WLAN I/w stage 2)											
23.236	Intra-domain connection of Radio Access Network (RAN) nodes to multiple Core Network (CN) nodes	S2								Y		yes
23.240	3GPP generic user profile requirements; Stage 2; Architecture	S2								Y		yes
23.241	3GPP Generic User Profile (GUP) requirements; Stage 2; Data description framework	T2								w	Y	yes
23.246	Multimedia Broadcast/Multicast Service (MBMS); Stage 2	S2								w	Y	

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23.271	Functional stage 2 description of location services (LCS)	S2							Y	Y	Y	yes
23.278	Customised Applications for Mobile network Enhanced Logic (CAMEL) - IP Multimedia System (IMS) interworking; Stage 2	N2								Y		yes
23.40U	UMTS Network Aspects; Relationship with UPT											
23.50U	UMTS Network Aspects; IN and B-ISDN concepts in a UMTS environment											
23.60U	UMTS Network Aspects; UMTS data organization											
23.70U	UMTS Network Aspects; UMTS operations and procedures											
23.80U	UMTS Network Aspects; Signalling requirements for UMTS											
23.814	Separating RR and MM specific parts of the MS Classmark	N1						Y	w			yes
23.815	Charging implications of IMS architecture	S2								Y		yes
23.821	Architecture Principles for Release 2000	S2							Y			yes
23.841	Presence service architecture	S2								w	Y	yes
23.846	Multimedia Broadcast/Multicast Service (MBMS); Stage 2	S2								w	Y	yes
23.871	Enhanced support for user privacy in Location Services (LCS)	S2								Y		yes
23.873	Feasibility study for transport and control separation in the PS CN domain	S2							Y			yes
23.874	Feasibility study of architecture for network requested PDP context activation with User-ID	S2							Y			yes
23.875	Support of Push service	S2								Y		yes
23.907	Quality of Service (QoS) concept	S2							Y			yes
23.908	Technical report on Pre-Paging	N4						Y	Y	w		yes
23.909	Technical report on the Gateway Location Register	N4						Y	Y	w		yes
23.90U	UMTS Network Aspects; Network performance requirements											
23.910	Circuit switched data bearer services	N3						Y	Y	Y		yes
23.911	Technical report on Out-of-band transcoder control	N4						Y	Y	w		yes
23.912	Technical report on Super-Charger	N4						Y	Y	w		yes
23.913	UMTS Turbo-Charger	-							w			
23.915	Charging implications of IMS architecture	S2								w		
23.917	Dynamic policy control enhancements for End to end Quality of Service (QoS); Feasibility study	S2									Y	yes
23.920	Evolution of the GSM platform towards UMTS	-						w				
23.922	Architecture for an All IP network	S2						w	w			
23.923	Combined GSM and Mobile IP mobility handling in UMTS IP CN	S2						Y	w			yes
23.925	UMTS Core network based ATM transport	S2						Y	Y			yes
23.927	VHE, Open Service Architecture (OSA)	-						w				
23.930	Iu Principles	S2						Y	Y			yes

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23.934	3GPP system to Wireless Local Area Network (WLAN) interworking; Functional and architectural definition	S1									Y	yes
23.955	Virtual Home Environment (VHE) concepts	S2								Y		yes
23.95U	UMTS Network Aspects; Network functions relevant to satellites											
23.960	Framework of network functions to support multimedia services	-						w				
23.972	Circuit switched multimedia telephony	N1						Y	w			yes
23.974	Support of push service	S2								w		
24.002	GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration	N1						Y	Y	Y		yes
24.004	Layer 1 - General Requirements	G2							w			
24.007	Mobile radio interface signalling layer 3; General Aspects	N1						Y	Y	Y		yes
24.008	Mobile radio interface Layer 3 specification; Core network protocols; Stage 3	N1						Y	Y	Y		yes
24.010	Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects	N4						Y	Y	Y		yes
24.011	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	N1						Y	Y	Y		yes
24.012	Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface	G2						w	w			
24.022	Radio Link Protocol (RLP) for circuit switched bearer and teleservices	N3						Y	Y	Y		yes
24.030	Location Services (LCS); Supplementary service operations; Stage 3	N4						Y	Y	Y		yes
24.04U	UMTS Interworking and internetworking signalling aspects; Interworking of UMTS with other systems											
24.05U	UMTS Interworking and internetworking signalling aspects; Interworking of UMTS with other systems											
24.065	General Packet Radio Service (GPRS); Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDP)	N1						w				
24.067	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3	N4						Y	Y	Y		yes
24.068	Group Call Control (GCC) Protocol	N1						w				
24.069	Broadcast Call Control (BCC) protocol	N1						w				
24.072	Call Deflection Supplementary Service; Stage 3	N4						Y	Y	Y		yes
24.080	Mobile radio Layer 3 supplementary service specification; Formats and coding	N4						Y	Y	Y		yes
24.081	Line Identification Supplementary Service; Stage 3	N4						Y	Y	Y		yes
24.082	Call Forwarding supplementary	N4						Y	Y	Y		yes

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24.083	service; Stage 3 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3	N4						Y	Y	Y		yes
24.084	MultiParty (MPTY) Supplementary Service; Stage 3	N4						Y	Y	Y		yes
24.085	Closed User Group (CUG) Supplementary Service; Stage 3	N4						Y	Y	Y		yes
24.086	Advice of Charge (AoC) Supplementary Service; Stage 3	N4						Y	Y	Y		yes
24.087	User-to-User Signalling (UUS); Stage 3	N4						Y	Y	Y		yes
24.088	Call Barring (CB) Supplementary Service; Stage 3	N4						Y	Y	Y		yes
24.090	Unstructured Supplementary Service Data (USSD); Stage 3	N4						Y	Y	Y		yes
24.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 3	N4						Y	Y	Y		yes
24.093	Call Completion to Busy Subscriber (CCBS); Stage 3	N4						Y	Y	Y		yes
24.094	Follow Me; Stage 3	-						w				
24.096	Name Identification Supplementary Service; Stage 3	N4						Y	Y	Y		yes
24.10U	UMTS Interworking and internetworking signalling aspects; Requirements for provision of UMTS services via satellite access								w			
24.135	Multicall supplementary service; Stage 3	N4						Y	Y	Y		yes
24.228	Signalling flows for the IP multimedia call control based on SIP and SDP; Stage 3	N1								Y		yes
24.229	IP Multimedia Call Control Protocol based on SIP and SDP; Stage 3	N1								Y		yes
24.241	3GPP generic user profile requirements; Stage 3; Access; Common objects	T2								w	Y	yes
24.841	Presence service based on Session Initiation Protocol (SIP); Functional models, information flows and protocol details	N1									Y	yes
24.946	reserved								w			
25.053	Tandem Free Operation (TFO); Service description; Stage 2	-						w				
25.05U	UMTS Radio Aspects; Multiplexing and multiple access											
25.101	UE Radio transmission and reception (FDD)	R4						Y	Y	Y	Y	yes
25.102	UTRA (UE) TDD; Radio transmission and reception	R4						Y	Y	Y		yes
25.103	RF parameters in support of RRM	-						w				
25.104	UTRA (BS) FDD; Radio transmission and reception	R4						Y	Y	Y		yes
25.105	UTRA (BS) TDD; Radio transmission and reception	R4						Y	Y	Y		yes
25.106	UTRA Repeater; Radio transmission and reception	R4							Y	Y		yes
25.107	UTRA Repeater; Conformance testing	-							w			
25.10U	UMTS Radio Aspects; Channel coding											
25.113	Base station and repeater electromagnetic compatibility	R4						Y	Y	Y		yes

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25.123	(EMC) Requirements for support of radio resource management (TDD)	R4						Y	Y	Y		yes
25.133	Requirements for support of radio resource management (FDD)	R4						Y	Y	Y		yes
25.141	Base station conformance testing (FDD)	R4						Y	Y	Y		yes
25.142	Base station conformance testing (TDD)	R4						Y	Y	Y		yes
25.143	UTRA repeater; Conformance testing	R4							Y	Y		yes
25.15U	UMTS Radio Aspects; Modulation											
25.201	Physical layer - general description	R1						Y	Y	Y		yes
25.20U	UMTS Radio Aspects; Transmission and reception											
25.211	Physical channels and mapping of transport channels onto physical channels (FDD)	R1						Y	Y	Y		yes
25.212	Multiplexing and channel coding (FDD)	R1						Y	Y	Y		yes
25.213	Spreading and modulation (FDD)	R1						Y	Y	Y		yes
25.214	Physical layer procedures (FDD)	R1						Y	Y	Y		yes
25.215	Physical layer; Measurements (FDD)	R1						Y	Y	Y		yes
25.221	Physical channels and mapping of transport channels onto physical channels (TDD)	R1						Y	Y	Y		yes
25.222	Multiplexing and channel coding (TDD)	R1						Y	Y	Y		yes
25.223	Spreading and modulation (TDD)	R1						Y	Y	Y		yes
25.224	Physical layer procedures (TDD)	R1						Y	Y	Y		yes
25.225	Physical layer; Measurements (TDD)	R1						Y	Y	Y		yes
25.301	Radio Interface Protocol Architecture	R2						Y	Y	Y		yes
25.302	Services provided by the physical layer	R2						Y	Y	Y		yes
25.303	Interlayer procedures in Connected Mode	R2						Y	Y	Y		yes
25.304	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	R2						Y	Y	Y		yes
25.305	User Equipment (UE) positioning in Universal Terrestrial Radio Access Network (UTRAN); Stage 2	R2						Y	Y	Y		yes
25.306	UE Radio Access capabilities definition	R2						Y	Y	Y		yes
25.307	Requirements on UEs supporting a release-independent frequency band	R2						Y	Y	Y		yes
25.308	UTRA High Speed Downlink Packet Access (HSPDA); Overall description; Stage 2	R2								Y		yes
25.321	Medium Access Control (MAC) protocol specification	R2						Y	Y	Y		yes
25.322	Radio Link Control (RLC) protocol specification	R2						Y	Y	Y		yes
25.323	Packet Data Convergence Protocol (PDCP) specification	R2						Y	Y	Y		yes
25.324	Broadcast/Multicast Control (BMC)	R2						Y	Y	Y		yes
25.331	Radio Resource Control (RRC) protocol specification	R2						Y	Y	Y		yes
25.371	LMU signalling	-							w			
25.401	UTRAN Overall Description	R3						Y	Y	Y		yes

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25.402	Synchronisation in UTRAN Stage 2	R3						Y	Y	Y		yes
25.410	UTRAN Iu Interface: General Aspects and Principles	R3						Y	Y	Y		yes
25.411	UTRAN Iu interface layer 1	R3						Y	Y	Y		yes
25.412	UTRAN Iu interface signalling transport	R3						Y	Y	Y		yes
25.413	UTRAN Iu interface RANAP signalling	R3						Y	Y	Y		yes
25.414	UTRAN Iu interface data transport & transport signalling	R3						Y	Y	Y		yes
25.415	UTRAN Iu interface user plane protocols	R3						Y	Y	Y		yes
25.419	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	R3						Y	Y	Y		yes
25.420	UTRAN Iur Interface: General Aspects and Principles	R3						Y	Y	Y		yes
25.421	UTRAN Iur interface Layer 1	R3						Y	Y	Y		yes
25.422	UTRAN Iur interface signalling transport	R3						Y	Y	Y		yes
25.423	UTRAN Iur interface RNSAP signalling	R3						Y	Y	Y		yes
25.424	UTRAN Iur interface data transport & transport signalling for CCH data streams	R3						Y	Y	Y		yes
25.425	UTRAN Iur interface user plane protocols for CCH data streams	R3						Y	Y	Y		yes
25.426	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	R3						Y	Y	Y		yes
25.427	UTRAN Iur and Iub interface user plane protocols for DCH data streams	R3						Y	Y	Y		yes
25.430	UTRAN Iub Interface: General Aspects and Principles	R3						Y	Y	Y		yes
25.431	UTRAN Iub interface Layer 1	R3						Y	Y	Y		yes
25.432	UTRAN Iub interface: signalling transport	R3						Y	Y	Y		yes
25.433	UTRAN Iub interface NBAP signalling	R3						Y	Y	Y		yes
25.434	UTRAN Iub interface data transport & transport signalling for CCH data streams	R3						Y	Y	Y		yes
25.435	UTRAN Iub interface user plane protocols for CCH data streams	R3						Y	Y	Y		yes
25.442	UTRAN implementation-specific O&M transport	R3						Y	Y	Y		yes
25.450	UTRAN Iupc interface general aspects and principles	R3								Y		yes
25.451	UTRAN Iupc interface layer 1	R3								Y		yes
25.452	UTRAN Iupc interface signalling transport	R3								Y		yes
25.453	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	R3								Y		yes
25.831	Study Items for future release	R3						Y				yes
25.832	Manifestations of Handover and SRNS relocation	R3						Y	Y			yes
25.833	Physical layer items not for inclusion in Release 99	R1						Y				yes
25.834	UTRA TDD low chip rate option; Radio protocol aspects	R2							Y			yes
25.835	Report on hybrid ARQ type II/III	R2							w			
25.836	Node B synchronization for TDD	R1							Y			yes
25.837	Hybrid ARQ Type II/III (Iub/Iur aspects)	R3							Y			yes
25.838	Node B Synchronisation for	R3							Y			yes

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	TDD (lub/lur aspects)											
25.839	Uplink Synchronous Transmission Scheme (USTS) (lur/lub aspects)	R3							Y			yes
25.840	Terminal power saving features	R1							Y			yes
25.841	DSCH power control improvement in soft handover	R1							Y			yes
25.842	Smart antenna	R1							Y			yes
25.843	1,28 Mcps TDD UE Radio Access Capabilities	R2							Y			yes
25.844	Radio access bearer support enhancements	R2							Y			yes
25.845	FDD RACH and AICH performance requirements	R4							Y			yes
25.846	CPCH performance	R4							w			
25.847	UE positioning enhancements	R2							Y			yes
25.848	Physical Layer Aspects of UTRA High Speed Downlink Packet Access	R1							Y			yes
25.849	DSCH power control improvement in soft handover	R3							Y			yes
25.850	UE positioning in UTRAN lub/lur protocol aspects	R3							Y			yes
25.851	RAB Quality of Service (QoS) Renegotiation over lu	R3							Y			yes
25.852	Radio access bearer support enhancements for the lu	R3							Y			yes
25.853	Delay budget within the access stratum	R3						Y	Y			yes
25.854	Uplink Synchronous Transmission Scheme (USTS)	R1								Y		yes
25.855	High Speed Downlink Packet Access (HSDPA); Overall UTRAN description	R2								w		
25.856	High Speed Downlink Packet Access (HSDPA); Layer 2 and 3 aspects	R2								Y		yes
25.857	UE positioning enhancements	R2								Y		yes
25.858	Physical layer aspects of UTRA High Speed Downlink Packet Access	R1								Y		yes
25.859	User Equipment (UE) positioning enhancements for 1,28 Mcps TDD	R2								Y		yes
25.860	Radio access bearer support enhancements	R2								Y		yes
25.861	RNC - SMLC location protocol	R2								w		
25.867	Feasibility study for wideband distribution systems in 3rd generation networks	R4								Y		yes
25.868	Node B synchronization for 1,28 Mcps TDD	R1								Y		yes
25.869	Transmitter diversity solutions for multiple antennas	R1								Y		yes
25.870	Enhancement on the DSCH Hard Split mode	R1								Y		yes
25.875	NAS node selector function	R3								Y		yes
25.876	Multiple-Input Multiple-Output Antenna Processing for HSDPA	R1								Y		yes
25.877	High Speed Downlink Packet Access (HSDPA) - lub/lur Protocol Aspects	R3								Y		yes
25.878	RL timing adjustment	R3								Y		yes
25.879	Separation of resource reservation and radio link activation	R3								Y		yes
25.880	Traffic termination point swapping	R3								Y		yes
25.881	Improvement of Radio Resource Management (RRM) across RNS and RNS/BSS	R3								Y		yes
25.882	1,28 Mcps TDD option base	R4								Y		yes

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	station classification											
25.883	Direct Transport Bearers Between SRNC and Node-B	R3								Y		yes
25.884	Inter Neighbouring cell reporting efficiency optimisation	R3								Y		yes
25.885	UMTS 1800 / 1900 MHz work items report	R4								Y		yes
25.886	Small technical enhancements and improvements work item	R4								Y		yes
25.887	Beamforming	R1							w	Y		yes
25.888	Improvement of inter frequency and inter system measurement for 1,28 Mcps TDD	R1							Y			yes
25.889	Viable deployment of UTRA in additional and diverse spectrum arrangements; Feasibility study	R4									Y	yes
25.890	High Speed Downlink Packet Access (HSDPA); User Equipment (UE) radio transmission and reception (FDD)	R4								Y		yes
25.891	Improvement of Radio Resource Management (RRM) across RNS and RNS/BSS post-Rel-5	R3									Y	yes
25.892	Analysis of OFDM for UTRAN enhancement	R1									Y	yes
25.893	Radio access bearer scenarios	R2								Y		yes
25.921	Guidelines and principles for protocol description and error handling	R2						Y	Y	Y		yes
25.922	Radio Resource Management Strategies	R2						Y	Y	Y		yes
25.923	Stage 2 Functional Specification of Location Services in UTRAN	-						w				
25.924	Opportunity Driven Multiple Access (ODMA)	R2							w			
25.925	Radio Interface for Broadcast/Multicast Services	R2						Y				yes
25.926	UE Radio Access capabilities definition	R2						w				
25.928	1,28 Mcps functionality for UTRA TDD physical layer	R1							Y			yes
25.931	UTRAN Functions, examples on signalling procedures	R3						Y	Y	Y		yes
25.932	Delay budget within the access stratum	R3							w			
25.933	IP transport in UTRAN	R3							w	Y		yes
25.934	AAL2 QoS optimization	R3							Y			yes
25.935	RRM optimisation	R3							Y			yes
25.936	Handover for realtime services from PS-domain	R3							Y			yes
25.937	UTRAN TDD low chiprate	R3							Y			yes
25.938	Terminal power saving features	R3							w			
25.941	Document structure	R4						Y				yes
25.942	RF system scenarios	R4						Y	Y	Y		yes
25.943	Deployment aspects	R4							Y	Y		yes
25.944	Channel coding and multiplexing examples	R1						Y	Y			yes
25.945	RF requirements for low chip rate TDD option	R4							Y	Y		yes
25.946	RAB Quality of Service (QoS) Negotiation over Iu	R3							Y			yes
25.950	UTRA high speed downlink packet access	R2							Y			yes
25.951	Base Station classification (FDD)	R4							w	Y		yes
25.952	Base Station classification (TDD)	R4							w	Y		yes

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25.953	TrFO/TFO	R3							Y			yes
25.954	Migration to modification procedure	R3							Y			yes
25.956	UTRA repeater: Planning guidelines and system analysis	R4							Y	Y		yes
25.990	Vocabulary for UTRAN	R4						w				
25.991	Feasibility study on the mitigation of the effect of common pilot channel (CPICH) interference at the user equipment	R4								Y		yes
26.071	AMR speech Codec; General description	S4						Y	Y	Y		yes
26.073	AMR speech Codec; C-source code	S4						Y	Y	Y		yes
26.074	AMR speech Codec; Test sequences	S4						Y	Y	Y		yes
26.075	Performance characterization of the Adaptive Multi-Rate (AMR) speech codec	-						w				
26.077	Minimum Performance Requirements for Noise Suppressor Application to the AMR Speech Encoder	S4							Y	Y		yes
26.078	Results of the AMR noise suppression selection phase	S4							w			
26.090	AMR speech Codec; Transcoding Functions	S4						Y	Y	Y		yes
26.091	AMR speech Codec; Error concealment of lost frames	S4						Y	Y	Y		yes
26.092	AMR speech Codec; comfort noise for AMR Speech Traffic Channels	S4						Y	Y	Y		yes
26.093	AMR speech Codec; Source Controlled Rate operation	S4						Y	Y	Y		yes
26.094	AMR Speech Codec; Voice Activity Detector for AMR Speech Traffic Channels	S4						Y	Y	Y		yes
26.101	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec frame structure	S4						Y	Y	Y		yes
26.102	AMR speech Codec; Interface to lu and Uu	S4						Y	Y	Y		yes
26.103	Speech codec list for GSM and UMTS	S4						Y	Y	Y		yes
26.104	ANSI-C code for the floating-point Adaptive Multi-Rate (AMR) speech codec	S4						Y	Y	Y		yes
26.110	Codec for circuit switched multimedia telephony service; General description	S4						Y	Y	Y		yes
26.111	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	S4						Y	Y	Y		yes
26.112	Codec(s) for Circuit Switched Multimedia Telephony Service; Call Set-up Requirements	S4						w				
26.115	Echo control for speech and multi-media services	S4						w	Y	Y		yes
26.121	Technical Specification for Tandem Free Operation within 3G networks	-						w				
26.122	Technical Specification for Tandem Free Operation between 3G and 2G networks	-						w				
26.131	Terminal acoustic characteristics for telephony; Requirements	S4						Y	Y	Y		yes
26.132	Narrow band (3,1 kHz) speech and video telephony terminal acoustic test specification	S4						Y	Y	Y		yes
26.133	Wide band speech telephony terminal acoustic characteristics	S4						w				

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26.134	Wide band speech telephony terminal acoustic test specification	S4						w				
26.135	Terminal Display and Camera Characteristics for H.324 Narrow-band Video Telephony	S4						w				
26.136	Terminal Display and Camera Test Specifications for H.324 Narrow-band Video Telephony	S4						w				
26.137	Terminal Display and Camera Characteristics for H.323 Narrow-band Video Telephony	S4						w				
26.138	Terminal Display and Camera Test Specifications for H.323 Narrow-band Video Telephony	S4						w				
26.140	Multimedia Messaging Service (MMS); Media formats and codes	S4								Y		yes
26.15U	Source coding aspects Aspects; Integration of audio visual coding into UMTS											
26.171	AMR speech codec, wideband; General description	S4								Y		yes
26.173	ANSI-C code for the Adaptive Multi Rate (AMR) Wideband speech codec	S4								Y		yes
26.174	AMR speech codec, wideband; Test sequences	S4								Y		yes
26.190	Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Transcoding functions	S4								Y		yes
26.191	AMR speech codec, wideband; Error concealment of lost frames	S4								Y		yes
26.192	Mandatory Speech Codec speech processing functions AMR Wideband Speech Codec; Comfort noise aspects	S4								Y		yes
26.193	AMR speech codec, wideband; Source Controlled Rate operation	S4								Y		yes
26.194	Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Voice Activity Detector (VAD)	S4								Y		yes
26.201	AMR speech codec, wideband; Frame structure	S4								Y		yes
26.202	AMR speech codec, wideband; Interface to lu and Uu	S4								Y		yes
26.204	ANSI-C code for the floating-point Adaptive Multi-Rate (AMR) wideband speech codec	S4								Y		yes
26.226	Global text telephony (GTT); Transport of text in the voice channel	S4							w	Y		yes
26.230	Global text telephony (GTT); Cellular text telephone modem transmitter C-code description	S4							w	Y		yes
26.231	Global text telephony (GTT); Cellular text telephone modem minimum performance requirements	S4								Y		yes
26.233	End-to-end transparent streaming service; General description	S4							Y	Y		yes
26.234	End-to-end transparent streaming service; Protocols and codecs	S4							Y	Y		yes
26.235	Packet switched conversational multimedia applications; Default codecs	S4							w	Y		yes
26.236	Packet switched conversational multimedia	S4								Y		yes

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	applications; Transport protocols											
26.901	AMR wideband speech codec; Feasibility study report	S4							Y			yes
26.911	Codec for Circuit switched Multimedia Telephony Service; Terminal Implementor's Guide	S4						Y	Y	Y		yes
26.912	Codec for Circuit switched Multimedia Telephony Service; Quantitative performance evaluation of H.324 Annex C over 3G	S4						Y	Y			yes
26.913	Quantitative performance evaluation of real-time packet switched multimedia services over 3G	S4						w	w			
26.915	Echo Control For Speech and Multi-Media Services	S4						Y				yes
26.920	Architectural Model for the 3G Transcoders	S4							w			
26.937	Transparent end-to-end packet switched streaming service (PSS); RTP usage model	S4								Y		yes
26.975	Performance characterization of the Adaptive Multi-Rate (AMR) speech codec	S4						Y	Y	Y		yes
26.976	Performance characterization of the Adaptive Multi-Rate Wideband (AMR-WB) speech codec	S4								Y		yes
26.978	Results of the AMR noise suppression selection phase	S4							Y			yes
27.001	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	N3						Y	Y	Y		yes
27.002	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	N3						Y	Y	Y		yes
27.003	Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities	N3						Y	Y	Y		yes
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						Y	Y	Y		yes
27.007	AT command set for 3G User Equipment (UE)	T2						Y	Y	Y	Y	yes
27.00U	Principles for handling of data services in the UMTS	S5										
27.010	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	T2						Y	Y	Y		yes
27.060	Packet domain; Mobile Station (MS) supporting Packet Switched services	N3						Y	Y	Y		yes
27.103	Wide Area Network Synchronization	T2						Y	Y	Y		yes
27.104	vObjects and other constructs for data synchronization	T2								Y		yes
27.226	Global Text telephony (GTT); Terminal aspects	T2								w		
27.241	3GPP generic user profile requirements; Stage 3; Access; Common objects	T2								Y		yes
27.901	Report on Terminal Interfaces - An Overview	T2						Y	Y	Y		yes
27.903	Discussion of synchronization standards	T2						Y	Y			yes
28.020	Rate Adaptation on the Base Station System - Mobile	N3							w			

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	Service Switching Centre (BSS-MSC) Interface											
28.062	Inband Tandem Free Operation (TFO) of speech codecs; Service description; Stage 3	S4						w	Y	Y		yes
29.002	Mobile Application Part (MAP) specification	N4						Y	Y	Y		yes
29.004	Interworking between the Public Land Mobile Network (PLMN) and the Circuit Switched Public Data Network (CSPDN)	-						w				
29.005	Interworking between the Public Land Mobile Network (PLMN) and the Packet Switched Public Data Network (PSPDN) for Packet Assembly/Disassembly (PAD) facility access	-						w				
29.006	Interworking between a PLMN and the ISDN or PSTN for support of Packet Switched data transmission services	-						w				
29.007	General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)	N3						Y	Y	Y		yes
29.010	Information Element Mapping between Mobile Station - Base Station System (MS - BSS) and Base Station System - Mobile-services Switching Centre (BSS - MCS) Signalling Procedures and the Mobile Application Part (MAP)	N4						Y	Y	Y		yes
29.011	Signalling Interworking for Supplementary Services	N4						Y	Y	Y		yes
29.013	Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols	N4						Y	Y	Y		yes
29.016	Serving GPRS Support Node SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification	N1						Y	Y	Y		yes
29.018	General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification	N1						Y	Y	Y		yes
29.060	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface	N4						Y	Y	Y		yes
29.061	Interworking between the Public Land Mobile Network (PLMN) supporting Packet Based services and Packet Data Networks (PDN)	N3						Y	Y	Y		yes
29.078	Customised Applications for Mobile network Enhanced Logic (CAMEL); CAMEL Application Part (CAP) specification	N2						Y	Y	Y		yes
29.108	Application of the Radio Access Network Application Part (RANAP) on the E-interface	R3						Y	Y	Y		yes
29.119	GPRS Tunnelling Protocol	N4						Y	Y	Y		yes

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	(GTP) specification for Gateway Location Register (GLR)											
29.120	Mobile Application Part (MAP) specification for Gateway Location Register (GLR); Stage 3	N4						Y	Y	Y		yes
29.162	Interworking between the IM CN subsystem and IP networks	N3								Y		yes
29.163	Interworking between the IM CN subsystem and CS networks	N3								w	Y	yes
29.198	Open Service Architecture (OSI) Application Programming Interface (API) - Part 1	N5						Y				yes
29.198-01	Open Service Access (OSA) Application Programming Interface (API); Part 1: Overview	N5							Y	Y		yes
29.198-02	Open Service Access (OSA) Application Programming Interface (API); Part 2: Common data	N5							Y	Y		yes
29.198-03	Open Service Access (OSA) Application Programming Interface (API); Part 3: Framework	N5							Y	Y		yes
29.198-04	Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control	N5							Y	w		yes
29.198-04-1	Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control; Subpart 1: Common call control data definitions	N5								Y		yes
29.198-04-2	Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control; Subpart 2: Generic call control data SCF	N5								Y		yes
29.198-04-3	Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control; Subpart 3: Multi-party call control data SCF	N5								Y		yes
29.198-04-4	Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control; Subpart 4: Multimedia call control data SCF	N5								Y		yes
29.198-05	Open Service Access (OSA) Application Programming Interface (API); Part 5: Generic user interaction	N5							Y	Y		yes
29.198-06	Open Service Access (OSA) Application Programming Interface (API); Part 6: Mobility	N5							Y	Y		yes
29.198-07	Open Service Access (OSA) Application Programming Interface (API); Part 7: Terminal capabilities	N5							Y	Y		yes
29.198-08	Open Service Access (OSA) Application Programming Interface (API); Part 8: Data session control	N5							Y	Y		yes
29.198-09	Open Service Access (OSA) Application Programming Interface (API); Part 9: Generic messaging SCF	N5								w		
29.198-10	Open Service Access (OSA) Application Programming Interface (API); Part 10: Connectivity manager SCF	N5								w		

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29.198-11	Open Service Access (OSA) Application Programming Interface (API); Part 11: Account management	N5							Y	Y		yes
29.198-12	Open Service Access (OSA) Application Programming Interface (API); Part 12: Charging	N5							Y	Y		yes
29.198-13	Open Service Access (OSA) Application Programming Interface (API); Part 13: Policy management SCF	N5								Y		yes
29.198-14	Open Service Access (OSA) Application Programming Interface (API); Part 13: Presence and Availability Management (PAM)	N5								Y		yes
29.202	Signalling System No. 7 (SS7) signalling transport in core network; Stage 3	N4							Y	Y		yes
29.203	Feasibility study on SS7 signalling transportation in the core network with SCCP-User Adaptation (SUA)	N4								w		
29.205	Application of Q.1900 series to bearer-independent circuit-switched core network architecture; Stage 3	N4							Y	Y		yes
29.207	Policy control over Go interface	N3								Y		yes
29.208	End to end Quality of Service (QoS) signalling flows	N3								Y		yes
29.226	reserved	N4								w		
29.228	IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Signalling flows and message contents	N4								Y		yes
29.229	Cx and Dx interfaces based on the Diameter protocol; Protocol details	N4								Y		yes
29.232	Media Gateway Controller (MGC) - Media Gateway (MGW) interface; Stage 3	N4							Y	Y		yes
29.240	3GPP generic user profile requirements; Stage 3; Network	N4								Y		yes
29.278	Customised Applications for Mobile network Enhanced Logic (CAMEL); CAMEL Application Part (CAP) specification for IP Multimedia Subsystems (IMS)	N2								Y		yes
29.328	IP Multimedia Subsystem (IMS) Sh interface signalling flows and message contents	N4								Y		yes
29.329	Sh interface based on the Diameter protocol	N4								Y		yes
29.332	Media Gateway Control Function (MGCF) - IM Media Gateway (IM-MGW) Mc interface; Stage 3	N4									Y	yes
29.414	Core network Nb data transport and transport signalling	N3							Y	Y		yes
29.415	Core network Nb interface user plane protocols	N3							Y	Y		yes
29.846	Multimedia Broadcast/Multicast Service (MBMS); CN1 procedure description	N1									Y	yes
29.903	Feasibility study on SS7 signalling transportation in the core network with SCCP-User Adaptation (SUA)	N4								Y		yes
29.993	Modifications to be	RP						Y	Y	Y		yes

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	incorporated in equipment to cater for errors in the standards											
29.994	Recommended infrastructure measures to overcome specific Mobile Station (MS) and User Equipment (UE) faults	N1						Y	Y	Y	Y	yes
29.998	Open Services Architecture API part 2	N5						Y				yes
29.998-01	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 1: General Issues on API Mapping	N5							Y	Y		yes
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 to CAP Mapping	N5							Y	Y		yes
29.998-04-2	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 2: INAP	N5								w		
29.998-04-3	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 3: MEGACO mapping	N5								Y		
29.998-04-4	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 4: Call Control Service Mapping; Subpart 4: Multiparty Call Control SIP	N5								Y		yes
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							Y	Y		yes
29.998-05-2	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 2: INAP mapping	N5								Y		yes
29.998-05-3	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 3: MEGACO mapping	N5								Y		yes
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							Y	Y		yes
29.998-06	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 6: User Location and User Status	N5							Y	Y		yes

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29.998-08	Service Mapping to MAP Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 8: Data Session Control Service Mapping to CAP	N5							Y	Y		yes
30.002	Guidelines for the modification of the Mobile Application Part (MAP)	N4							Y			yes
30.00U	SMG - UMTS Work programme	-										
30.01U	UMTS Baseline document: Collection of the SMG's positions on the UMTS	-										
30.02U	Experience from GSM standardisation to be applied at UMTS standardisation	-										
30.03U	Selection procedures for the choice of radio transmission technologies of the UMTS	GP										
30.04U	Definition of the limited number of UTRA concepts	GP										
30.05U	UMTS terminology	-										
30.06U	UTRA Concept Evaluation Reports	GP										
30.20U	Technical characteristics, capabilities and limitations of mobile satellite systems applicable to the UMTS	-										
30.504	Work Plan and Study Items - RAN WG4	R4							Y			yes
30.531	Work Plan and Study Items - RAN WG3	R3						Y				yes
30.801	Overall Project Plan	S2							w			
30.802	Project plan on Bearer Services and QoS	S2							w			
30.804	Project plan on GSM/UMTS Interoperation and Mobility Management	S2							w			
30.806	Project plan on Location based services	S2							w			
30.808	Project plan on Packet Architecture and Circuit Architecture	S2							w			
30.810	Project plan on Security	S2							w			
30.812	Project plan on Services and Service platforms	S2							w			
31.048	Test specification for security mechanisms for the (U)SIM application toolkit	T3							Y	Y		yes
31.101	UICC-terminal interface; Physical and logical characteristics	T3						Y	Y			yes
31.102	Characteristics of the USIM Application	T3						Y	Y	Y		yes
31.103	Characteristics of the ISIM application	T3								Y		yes
31.110	Numbering system for telecommunication IC card applications	T3						Y	Y			yes
31.111	USIM Application Toolkit (USAT)	T3						Y	Y	Y		yes
31.112	USAT Interpreter Architecture Description; Stage 2	T3								Y		yes
31.113	USAT interpreter byte codes	T3								Y	Y	yes
31.114	USAT interpreter protocol and administration	T3								Y	Y	yes
31.115	Secured packet structure for (U)SIM Toolkit applications	T3								w	Y	yes
31.116	Remote APDU Structure for (U)SIM Toolkit applications	T3								w	Y	yes
31.120	UICC-terminal interface; Physical, electrical and logical test specification	T3						Y	Y			yes

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31.121	UICC-terminal interface; USIM application test specification	T3						Y	Y			yes
31.122	USIM conformance test specification	T3						Y	Y			yes
31.131	C-language binding for (U)SIM API	T3								Y		yes
31.900	SIM/USIM internal and external interworking aspects	T3						w	w	Y		yes
32.005	Telecommunications Management; Charging and billing; 3G call and event data for the Circuit Switched (CS) domain	S5						Y				yes
32.008	Subscriber and Equipment trace	-						w				
32.015	Telecommunications Management; Charging and billing; 3G call and event data for the Packet Switched (PS) domain	S5						Y				yes
32.01U	Overall principles of the OAM for the UMTS	SMG12										
32.101	3G Telecom Management principles and high level requirements	S5						Y	Y	Y		yes
32.102	3G Telecom Management Architecture	S5						Y	Y	Y		yes
32.104	3G Performance Management	S5						Y	w			yes
32.105	3G charging and billing; Stage 2 description	S5							w			
32.106	Configuration Management	S5						w				
32.106-1	Telecommunication management; Configuration Management (CM); Part 1: Concept and requirements	S5						Y	w			yes
32.106-2	Telecommunication management; Configuration Management (CM); Part 2: Notification Integration Reference Point; Information Service version 1	S5						Y	w			yes
32.106-3	Telecommunication management; Configuration Management (CM); Part 3: Notification Integration Reference Point; CORBA solution set version 1:1	S5						Y	w			yes
32.106-4	Telecommunication management; Configuration Management (CM); Part 4: Notification Integration Reference Point: CMIP Solution Set Version 1:1	S5						Y	w			yes
32.106-5	Telecommunication management; Configuration Management (CM); Part 5: Basic Configuration Management Integration Reference Point (IRP) information model (including NRM) version 1	S5						Y	w			yes
32.106-6	Telecommunication management; Configuration Management (CM); Part 6: Basic Configuration Management Integration Reference Point (IRP) CORBA solution set version 1:1	S5						Y	w			yes
32.106-7	Telecommunication management; Configuration Management (CM); Part 7: Basic Configuration Management Integration Reference Point (IRP) CMIP solution set version 1:1	S5						Y	w			yes
32.106-8	Telecommunication	S5						Y	w			yes

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	management; Configuration Management (CM); Part 8: Name convention for Managed Objects											
32.108	Telecommunication management; Subscriber and equipment trace	S5								w	w	
32.111	3G Fault Management	S5						w	w			
32.111-1	Telecommunication management; Fault Management; Part 1: 3G fault management requirements	S5						Y	Y	Y		yes
32.111-2	Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service	S5						Y	Y	Y		yes
32.111-3	Telecommunication management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1	S5						Y	Y	Y		yes
32.111-4	Telecommunication management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP solution set	S5						Y	Y	Y		yes
32.112	Telecommunication management; Fault Management; Alarm Integration Reference Point: Information Service	S5								w		
32.112-1	Telecommunication management; Generic Integration Reference Point (IRP) management; Part 1: Requirements	S5							w			
32.112-2	Telecommunication management; Generic Integration Reference Point (IRP) management; Part 2: Information service	S2							w			
32.113	Telecommunication management; Fault Management; Alarm Integration Reference Point: CORBA solution set version 1:1	S5								w		
32.114	Telecommunication management; Fault Management; Alarm Integration Reference Point: CMIP solution set	S5								w		
32.140	Services operations management; Subscription management requirements	S5							w	w	Y	yes
32.200	Telecommunication management; Charging management; Charging principles	S5							Y	Y		yes
32.205	Telecommunication management; Charging management; 3G charging data description for the CS domain	S5							Y	Y		yes
32.215	Telecommunications management; Charging management; Charging data description for the Packet Switched (PS) domain	S5							Y	Y		yes
32.225	Telecommunication management; Charging management; Charging data description for the IP Multimedia Subsystem (IMS)	S5								Y		yes

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32.235	Telecommunication management; Charging management; Charging data description for application services	S5							Y	Y		yes
32.300	Telecommunication management; Configuration Management (CM); Name convention for Managed Objects	S5							Y	Y		yes
32.301	Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): requirements	S5							Y	Y		yes
32.301-1	Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): requirements	S5							w			
32.301-2	Telecommunication management; Configuration Management (CM); Part 2: Notification Integration Reference Point; Information Service version 1	S5							w			
32.301-3	Telecommunication management; Configuration Management (CM); Part 3: Notification Integration Reference Point; CORBA solution set version 1:1	S5							w			
32.301-4	Telecommunication management; Configuration Management (CM); Part 4: Notification Integration Reference Point: CMIP Solution Set Version 1:1	S5							w			
32.302	Telecommunication management; Configuration Management (CM); Notification Integration Reference Point; Information Service version 1	S5							Y	Y		yes
32.303	Telecommunication management; Configuration Management (CM); Notification Integration Reference Point; CORBA solution set version 1:1	S5							Y	Y		yes
32.304	Telecommunication management; Configuration Management (CM); Notification Integration Reference Point: CMIP Solution Set Version 1:1	S5							Y	Y		yes
32.311	Telecommunication management; Generic Integration Reference Point (IRP) management; Requirements	S5							Y	Y		yes
32.312	Telecommunication management; Generic Integration Reference Point (IRP) management; Information service	S5							Y	Y		yes
32.312-1	Telecommunication management; Generic Integration Reference Point (IRP) management; Requirements	S5							w			
32.312-2	Telecommunication management; Generic Integration Reference Point	S5								w		

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	(IRP) management; Information service											
32.321	Telecommunication management; Test management Integration Reference Point (IRP); Requirements	S5								Y		yes
32.322	Telecommunication management; Test management Integration Reference Point (IRP); Information service	S5								Y		yes
32.323	Telecommunication management; Test management Integration Reference Point (IRP); Corba solution set	S5								Y		yes
32.324	Telecommunication management; Test management Integration Reference Point (IRP); CMIP solution set	S5								Y		yes
32.401	Telecommunication management; Performance Management (PM); Concept and requirements	S5							Y	Y		yes
32.402	Telecommunication management; Performance Management (PM); Performance measurements - GSM	S5							w			
32.403	Telecommunication management; Performance Management (PM); Performance measurements - UMTS and combined UMTS/GSM	S5							Y	Y		yes
32.411	Telecommunication management; Performance Management (PM) Integration Reference Point (IRP); Requirements	S5									Y	yes
32.421	Telecommunication management; Subscriber and equipment trace: Trace concepts and requirements	S5									Y	yes
32.422	Telecommunication management; Subscriber and equipment trace: Trace control and Configuration Management	S5									Y	yes
32.423	Telecommunication management; Subscriber and equipment trace: Trace data definition and management	S5									Y	yes
32.600	Telecommunication management; Configuration Management (CM); Configuration Management (CM); Concept and main requirements	S5							Y	Y		yes
32.601	Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP): requirements	S5							Y	Y		yes
32.601-1	Telecommunication management; Configuration Management (CM); Part 1: Basic CM Integration Reference Point (IRP): requirements	S5							w			
32.601-2	Telecommunication management; Configuration Management (CM); Part 2: Basic Configuration	S5							w			

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	Management Integration Reference Point (IRP) information model											
32.601-3	Telecommunication management; Configuration Management (CM); Part 3: Basic Configuration Management Integration Reference Point (IRP): CORBA solution set	S5							w			
32.601-4	Telecommunication management; Configuration Management (CM); Part 4: Basic Configuration Management Integration Reference Point (IRP) CMIP solution set	S5							w			
32.602	Telecommunication management; Configuration Management (CM); Basic Configuration Management Integration Reference Point (IRP) information model	S5							Y	Y		yes
32.602-1	Telecommunication management; Configuration Management (CM); Configuration Management: Bulk CM Integration Reference Point (IRP) requirements	S5							w			
32.602-2	Telecommunication management; Configuration Management (CM); Configuration Management: Bulk Configuration Management Integration Reference Point (IRP): Information service	S5							w			
32.602-3	Telecommunication management; Configuration Management (CM); Configuration Management: Bulk Configuration Management Integration Reference Point (IRP): CORBA solution set	S5							w			
32.602-4	Telecommunication management; Configuration Management (CM); Configuration Management: Bulk Configuration Management Integration Reference Point (IRP): CMIP solution set	S5							w			
32.602-5	Telecommunication management; Configuration Management (CM); Configuration Management: Bulk Configuration Management Integration Reference Point (IRP): XML file format definition	S5							w			
32.603	Telecommunication management; Configuration Management (CM); Basic Configuration Management Integration Reference Point (IRP): CORBA solution set	S5							Y	Y		yes
32.604	Telecommunication management; Configuration Management (CM); Basic Configuration Management Integration Reference Point (IRP) CMIP solution set	S5							Y	Y		yes
32.611	Telecommunication management; Configuration Management (CM); Bulk CM	S5							Y	Y		yes

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	Integration Reference Point (IRP); Requirements											
32.612	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); Information service	S5							Y	Y		yes
32.613	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) solution set	S5							Y	Y		yes
32.614	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); Common Management Information Protocol (CMIP) solution set	S5							Y	Y		yes
32.615	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); eXtensible Markup Language (XML) file format definition	S5							Y	Y		yes
32.620-1	Telecommunication management; Configuration Management (CM); Part 1: Generic network resources Integration Reference Point (IRP): requirements	S5							w			
32.620-2	Telecommunication management; Configuration Management (CM); Part 2: Generic network resources Integration Reference Point (IRP): NRM	S5							w			
32.620-3	Telecommunication management; Configuration Management (CM); Part 3: Generic network resources Integration Reference Point (IRP): CORBA solution set	S5							w			
32.620-4	Telecommunication management; Configuration Management (CM); Part 4: Generic network resources: Integration Reference Point (IRP) CMIP solution set	S5							w			
32.621	Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): requirements	S5							Y	Y		yes
32.621-1	Telecommunication management; Configuration Management (CM); Part 1: Core network resources Integration Reference Point (IRP): requirements	S5							w			
32.621-2	Telecommunication management; Configuration Management (CM); Core Network Resources Integration Reference Point (IRP): NRM	S5							w			
32.621-3	Telecommunication management; Configuration Management (CM); Part 3: Core network resources Integration Reference Point (IRP): CORBA solution set	S5							w			
32.621-4	Telecommunication	S5							w			

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	management; Configuration Management (CM); Part 4: Core network resources Integration Reference Point (IRP): CMIP solution set											
32.622	Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): Network Resource Model (NRM)	S5							Y	Y		yes
32.622-1	Telecommunication management; Configuration Management (CM); Part 1: UTRAN network resources Integration Reference Point (IRP): requirements	S5							w			
32.622-2	Telecommunication management; Configuration Management (CM); Part 2: UTRAN network resources Integration Reference Point (IRP): NRM	S5							w			
32.622-3	Telecommunication management; Configuration Management (CM); Part 3: UTRAN network resources Integration Reference Point (IRP): CORBA solution set	S5							w			
32.622-4	Telecommunication management; Configuration Management (CM); Part 4: UTRAN network resources Integration Reference Point (IRP): CMIP solution set	S5							w			
32.623	Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): CORBA solution set	S5							Y	Y		yes
32.623-1	Telecommunication management; Configuration Management (CM); Part 1: GERAN network resources Integration Reference Point (IRP): requirements	S5							w			
32.623-2	Telecommunication management; Configuration Management (CM); Part 2: GERAN network resources Integration Reference Point (IRP): NRM	S5							w			
32.623-3	Telecommunication management; Configuration Management (CM); Part 3: GERAN network resources Integration Reference Point (IRP): CORBA solution set	S5							w			
32.623-4	Telecommunication management; Configuration Management (CM); Part 4: GERAN network resources Integration Reference Point (IRP): CMIP solution set	S5							w			
32.624	Telecommunication management; Configuration Management (CM); Generic network resources: Integration Reference Point (IRP) CMIP solution set	S5							Y	Y		yes
32.625	Telecommunication management; Configuration Management (CM); Generic network resources Integration	S5								Y		yes

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	Reference Point (IRP): Bulk CM eXtensible Markup Language (XML) file format definition											
32.631	Telecommunication management; Configuration Management (CM); Core network resources Integration Reference Point (IRP): requirements	S5							Y	Y		yes
32.632	Telecommunication management; Configuration Management (CM); Core Network Resources Integration Reference Point (IRP): Network Resource Model (NRM)	S5							Y	Y		yes
32.633	Telecommunication management; Configuration Management (CM); Core network resources Integration Reference Point (IRP): CORBA solution set	S5							Y	Y		yes
32.634	Telecommunication management; Configuration Management (CM); Core network resources Integration Reference Point (IRP): CMIP solution set	S5							Y	Y		yes
32.635	Telecommunication management; Configuration Management (CM); Core network resources Integration Reference Point (IRP): Bulk CM eXtensible Markup Language (XML) file format definition	S5								Y		yes
32.641	Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): requirements	S5							Y	Y		yes
32.642	Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): Network Resource Model (NRM)	S5							Y	Y		yes
32.643	Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): CORBA solution set	S5							Y	Y		yes
32.644	Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): CMIP solution set	S5							Y	Y		yes
32.645	Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): Bulk CM eXtensible Markup Language (XML) file format definition	S5								Y		yes
32.651	Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP): requirements	S5							Y	Y		yes

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32.652	Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP): Network Resource Model (NRM)	S5							Y	Y		yes
32.653	Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP): CORBA solution set	S5							Y	Y		yes
32.654	Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP): CMIP solution set	S5							Y	Y		yes
32.655	Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP): Bulk CM eXtensible Markup Language (XML) file format definition	S5								Y		yes
32.661	Telecommunication management; Configuration Management (CM); Kernel CM requirements	S5								Y		yes
32.662	Telecommunication management; Configuration Management (CM); Kernel CM information service	S5								Y		yes
32.663	Telecommunication management; Configuration Management (CM); Kernel CM CORBA solution set	S5								w	Y	yes
32.664	Telecommunication management; Configuration Management (CM); Kernel CM CMIP solution set	S5								w	Y	yes
32.671	Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP): Requirements	S5								Y		yes
32.672	Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP): Information service	S5								Y		yes
32.673	Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP): CORBA Solution set	S5								Y		yes
32.674	Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP): CMIP Solution set	S5								Y		yes
32.681	Telecommunication management; Inventory management; Inventory management Integration Reference Point (IRP): Requirements	S5								w	Y	yes
32.682	Telecommunication management; Inventory management; Inventory	S5								w	Y	yes

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	management Integration Reference Point (IRP): Information service											
32.683	Telecommunication management; Inventory management; Inventory management Integration Reference Point (IRP): CORBA solution set	S5								w	Y	yes
32.684	Telecommunication management; Inventory management; Inventory management Integration Reference Point (IRP): CMIP solution set	S5								w	Y	yes
32.691	Requirements for Network Resources for Inventory Management	S5								Y		yes
32.692	Network Resource Model for Inventory Management	S5								Y		yes
32.800	Management level procedures and interaction with UTRAN	S5							Y	Y		yes
32.801	Performance management	S5								w		
32.802	Telecommunication management; User Equipment (UE) management feasibility study	S5								Y		yes
33.102	3G security; Security architecture	S3						Y	Y	Y		yes
33.103	3G security; Integration guidelines	S3						Y	Y			yes
33.105	Cryptographic Algorithm requirements	S3						Y	Y			yes
33.106	Lawful interception requirements	S3						Y	Y	Y		yes
33.107	3G security; Lawful interception architecture and functions	S3						Y	Y	Y		yes
33.108	3G security; Handover interface for Lawful Interception (LI)	S3								Y		yes
33.120	Security Objectives and Principles	S3						Y	Y			yes
33.200	3G Security; Network Domain Security (NDS); Mobile Application Part (MAP) application layer security	S3							Y	Y		yes
33.201	Access domain security	S3								Y		yes
33.203	3G security; Access security for IP-based services	S3								Y		yes
33.20U	Security principles for the UMTS	-										
33.210	3G security; Network Domain Security (NDS); IP network layer security	S3								Y		yes
33.21U	Security requirements	-										
33.800	Principles for Network Domain Security	S3							w	w		
33.810	Feasibility study for support of TS 33.210 NDS/IP evolution	S3									Y	yes
33.900	Guide to 3G security	S3						w	w	Y		yes
33.901	Criteria for cryptographic Algorithm design process	S3						Y	Y			yes
33.902	Formal Analysis of the 3G Authentication Protocol	S3						Y	Y			yes
33.903	Access Security for IP based services	S3							Y	Y		yes
33.904	Report on the Evaluation of 3GPP Standard Confidentiality and Integrity Algorithms	S3							Y			yes
33.908	3G Security; General report on the design, specification and evaluation of 3GPP standard confidentiality and integrity algorithms	S3						Y	Y			yes

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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						w	Y			yes
33.910	Feasibility study for support of TS 33.210 NDS/IP evolution	S3									w	
34.108	Common test environments for User Equipment (UE) conformance testing	T1						Y	Y			yes
34.109	Terminal logical test interface; Special conformance testing functions	R2						Y	Y	Y		yes
34.121	Terminal Conformance Specification, Radio Transmission and Reception (FDD)	T1						Y	Y			yes
34.122	Terminal Conformance Specification, Radio Transmission and Reception (TDD)	T1						Y	Y			yes
34.123-1	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	T1						Y	Y	Y		yes
34.123-2	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	T1						Y	Y	Y		yes
34.123-3	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATs)	T1						Y	Y			yes
34.124	Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment	R4						Y	Y	Y		yes
34.131	Test specification for C-language binding for (U)SIM API	T3									Y	yes
34.907	Report on electrical safety requirements and regulations	T2						Y				yes
34.910	Identification of test requirements for regulatory purposes in different regions/countries	T1							Y			yes
34.925	Specific Absorption Rate (SAR) requirements and regulations in different regions	T2						Y				yes
34.926	Table of international EMC requirements	R4							Y	Y		yes
35.201	Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications	S3						Y	Y	Y		yes
35.202	Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi algorithm specification	S3						Y	Y	Y		yes
35.203	Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data	S3						Y	Y	Y		yes
35.204	Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data	S3						Y	Y	Y		yes
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*;	S3						w	Y	Y		yes

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35.206	Document 1: General 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						w	Y	Y		yes
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						w	Y	Y		yes
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						w	Y	Y		yes
35.209	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						w				
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							Y	Y		yes
41.001	GSM Specification set	SP							w			
41.031	Fraud Information Gathering System (FIGS); Service requirements; Stage 0	S3							Y	Y		yes
41.033	Lawful Interception requirements for GSM	S3							Y	Y		yes
41.061	General Packet Radio Service (GPRS); GPRS ciphering algorithm requirements	S3							Y			yes
41.102	GSM Release 4 specifications	SP							Y			yes
41.103	GSM Release 5 specifications	SP								Y		yes
41.104	GSM Release 6 specifications	SP									Y	yes
41.811	Uplink - Time Difference Of Arrival (U-TDOA) in GSM and GPRS	G1									w	
42.009	Security Aspects	S3							Y			yes
42.017	Subscriber Identity Module (SIM); Functional characteristics	T3							Y			yes
42.019	Subscriber Identity Module Application Programming Interface (SIM API); Stage 1	T3							Y	Y		yes
42.031	Fraud Information Gathering System (FIGS); Service description; Stage 1	S3							Y	Y		yes
42.032	Immediate Service Termination (IST); Service description; Stage 1	S3							w	w		
42.033	Lawful Interception; Stage 1	S3							Y	Y		yes
42.043	Support of Localised Service Area (SoLSA); Service description; Stage 1	S1							Y	Y		yes

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42.048	Security mechanisms for the SIM Application Toolkit; Stage 1	T3							w			
42.053	Tandem Free Operation (TFO); Service description; Stage 1	S4							w			
42.056	GSM Cordless Telephony System (CTS), Phase 1; Service description; Stage 1	S1							Y	Y		yes
42.068	Voice Group Call Service (VGCS); Stage 1	S1							Y	Y		yes
42.069	Voice Broadcast Service (VBS); Stage 1	S1							Y	Y		yes
43.005	Technical performance objectives	NP							Y	Y		yes
43.010	GSM Public Land Mobile Network (PLMN) connection types	N3							Y	Y		yes
43.013	Discontinuous Reception (DRX) in the GSM system	G1							Y	Y		yes
43.019	Subscriber Identity Module Application Programming Interface (SIM API) for Java Card; Stage 2	T3							Y	Y		yes
43.020	Security-related network functions	S3							Y	Y		yes
43.022	Functions related to Mobile Station (MS) in idle mode and group receive mode	G1							Y	Y		yes
43.026	Multiband operation of GSM / DCS 1800 by a single operator	G1							Y	Y		yes
43.030	Radio network planning aspects	G1							Y	Y		yes
43.031	Fraud Information Gathering System (FIGS); Service description; Stage 2	S3							Y	Y		yes
43.033	Lawful Interception; Stage 2	S3							Y	Y		yes
43.035	Immediate Service Termination (IST); Stage 2	S3							w	w		
43.045	Technical Realization of Facsimile Group 3 Service - transparent	N3							Y	Y		yes
43.046	Technical Realization of Facsimile Group 3 Service - non transparent	N3							w			
43.048	Security Mechanisms for SIM Toolkit Application; Stage 2	T3							w			
43.050	Transmission Planning Aspects of the Speech Service in the GSM Public Land Mobile Network (PLMN) System	S4							Y	Y		yes
43.051	GSM/EDGE Radio Access Network (GERAN) overall description; Stage 2	G1							w	Y		yes
43.052	Lower layers of the GSM Cordless Telephony System (CTS) radio interface; Stage 2	G1							Y	Y		yes
43.055	Dual Transfer Mode (DTM); Stage 2	G1							Y	Y		yes
43.058	Characterisation, test methods and quality assessment for handsfree Mobile Stations (MSs)	S4							Y	Y		yes
43.059	Functional stage 2 description of Location Services (LCS) in GERAN	G1							Y	Y		yes
43.063	Packet Data on Signalling channels service (PDS) Service description, Stage 2	N1							w			
43.064	Overall description of the GPRS radio interface; Stage 2	G1							Y	Y		yes
43.068	Voice Group Call Service (VGCS); Stage 2	N1							Y	Y		yes
43.069	Voice Broadcast service (VBS); Stage 2	N1							Y	Y		yes

Number	Title	WG	Ph1	Ph2	R96	R97	R98	R99	Rel-4	Rel-5	Rel-6	active
43.071	Location services (LCS); Stage 2	S2							w			
43.073	Support of Localised Service Area (SoLSA); Stage 2	N4							Y	Y		yes
43.900	Support for voice optimization for the IMS in the GERAN	G2								Y		yes
43.930	Iur-g interface; Stage 2	G2								Y		yes
44.001	Mobile Station - Base Station System (MS - BSS) Interface General Aspects and Principles	N1							Y	Y		yes
44.003	Mobile Station - Base Station System (MS - BSS) Interface Channel Structures and Access Capabilities	G2							Y			yes
44.004	Layer 1 - General Requirements	G2							Y	Y		yes
44.005	Data Link (DL) Layer General Aspects	G2							Y			yes
44.006	Mobile Station - Base Stations System (MS - BSS) Interface Data Link (DL) Layer Specification	G2							Y			yes
44.008	Mobile radio interface layer 3 specification	N1							w			
44.012	Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface	G2							Y			yes
44.013	Performance Requirements on Mobile Radio Interface	N1							Y	Y		yes
44.014	Individual equipment type requirements and interworking; Special conformance testing functions	G2							Y			yes
44.018	Mobile radio interface layer 3 specification; Radio Resource Control Protocol	G2							Y	Y		yes
44.021	Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface	N3							Y	Y		yes
44.031	Location Services (LCS); Mobile Station (MS) - Serving Mobile Location Centre (SMLC) Radio Resource LCS Protocol (RRLP)	G2							Y	Y		yes
44.035	Location Services (LCS); Broadcast network assistance for Enhanced Observed Time Difference (E-OTD) and Global Positioning System (GPS) positioning methods	G2							Y			yes
44.056	GSM Cordless Telephony System (CTS), (Phase 1) CTS Radio Interface Layer 3 Specification	N1							Y	Y		yes
44.057	GSM Cordless Telephony System (CTS), (Phase 1) CTS CTS supervising system Layer 3 Specification	N1							Y	Y		yes
44.060	General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/ Medium Access Control (RLC/MAC) protocol	G2							Y	Y		yes
44.063	Packet Data on Signalling channels Service (PDS) Service Description, Stage 3	N1							w			
44.064	Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification	N1							Y	Y		yes
44.065	Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent	N1							Y	Y		yes

Number	Title	WG	Ph1	Ph2	R96	R97	R98	R99	Rel-4	Rel-5	Rel-6	active
	Convergence Protocol (SNDCP)											
44.068	Group Call Control (GCC) Protocol	N1							Y	Y		yes
44.069	Broadcast Call Control (BCC) protocol	N1							Y	Y		yes
44.071	Location Services (LCS); Mobile radio interface layer 3 LCS specification	G2							Y			yes
44.118	Mobile radio interface layer 3 specification, Radio Resource Control (RRC) protocol lu mode	G2								Y		yes
44.160	General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/ Medium Access Control (RLC/MAC) protocol for lu mode	G2								w		yes
44.901	External network assisted cell change (NACC)	G2								Y		yes
45.001	Physical Layer on the Radio Path (General Description)	G1							Y	Y		yes
45.002	Multiplexing and Multiple Access on the Radio Path	G1							Y	Y		yes
45.003	Channel coding	G1							Y	Y		yes
45.004	Modulation	G1							Y	Y		yes
45.005	Radio transmission and reception	G1							Y	Y		yes
45.008	Radio subsystem link control	G1							Y	Y		yes
45.009	Link adaptation	G1							Y	Y		yes
45.010	Radio subsystem synchronization	G1							Y	Y		yes
45.022	Radio link management in hierarchical networks	G1							Y	Y		yes
45.050	Background for RF Requirements	G1							Y	Y		yes
45.056	CTS-FP Radio Sub-system	G1							Y	Y		yes
45.811	Uplink - Time Difference Of Arrival (U-TDOA) in GSM and GPRS	G1									Y	yes
46.001	Full Rate Speech Processing Functions	S4							Y	Y		yes
46.002	Half Rate Speech Processing Functions	S4							Y	Y		yes
46.006	Half-rate speech: ANSI-C code for GSM half-rate speech codec	S4							Y	Y		yes
46.007	Half Rate Speech: Test Sequence for GSM Half Rate Speech Codec	S4							Y	Y		yes
46.008	Half Rate Speech; Performance Characterization of the GSM Half Rate speech codec	S4							Y	Y		yes
46.010	Full-rate speech transcoding	S4							Y	Y		yes
46.011	Substitution and Muting of Lost Frames for Full Rate Speech Channels	S4							Y	Y		yes
46.012	Comfort Noise Aspects for Full Rate Speech Traffic Channels	S4							Y	Y		yes
46.020	Half Rate Speech Transcoding	S4							Y	Y		yes
46.021	Half rate speech; Substitution and muting of lost frames for half rate speech traffic channels	S4							Y	Y		yes
46.022	Comfort Noise Aspects for Half Rate Speech Traffic Channels	S4							Y	Y		yes
46.031	Discontinuous Transmission (DTX) for Full Rate Speech Traffic Channels	S4							Y	Y		yes
46.032	Voice Activity Detection (VAD)	S4							Y	Y		yes
46.041	Discontinuous Transmission (DTX) for Half Rate Speech	S4							Y	Y		yes

Number	Title	WG	Ph1	Ph2	R96	R97	R98	R99	Rel-4	Rel-5	Rel-6	active
	Traffic Channels											
46.042	Voice Activity Detection (VAD) for Half Rate Speech Traffic Channels	S4							Y	Y		yes
46.051	GSM Enhanced full rate speech processing functions: General description	S4							Y	Y		yes
46.053	ANSI-C code for the GSM Enhanced full rate speech codec	S4							Y	Y		yes
46.054	Test sequences for the GSM Enhanced Full Rate (EFR)	S4							Y	Y		yes
46.055	Performance characterisation of the GSM EFR Speech Codec	S4							Y	Y		yes
46.060	Enhanced full rate speech transcoding	S4							Y	Y		yes
46.061	Substitution and muting of lost frames for enhanced full rate speech traffic channels	S4							Y	Y		yes
46.062	Comfort noise aspects for Enhanced Full Rate (EFR) speech traffic channels	S4							Y	Y		yes
46.076	Adaptive Multi-Rate (AMR) speech codec; Study phase report	S4							Y			yes
46.081	Discontinuous Transmission (DTX) for enhanced full rate speech traffic channels	S4							Y	Y		yes
46.082	Voice Activity Detection (VAD) for enhanced full rate speech traffic channels	S4							Y	Y		yes
46.085	Subjective tests on the interoperability of the HR/FR/EFR speech codecs; single, tandem and tandem free operation	S4							Y	Y		yes
48.001	General Aspects on the BSS-MSC Interface	G2							Y			yes
48.002	Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface - Interface Principles	G2							Y	Y		yes
48.004	Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface Layer 1 Specification	G2							Y			yes
48.006	Signalling Transport Mechanism Specification for the Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface	G2							Y			yes
48.008	Mobile Switching Centre - Base Station system (MSC-BSS) Interface Layer 3 Specification	G2							Y	Y		yes
48.014	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) interface; Gb Interface Layer 1	G2							Y			yes
48.016	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) Interface; Network Service	G2							Y	Y		yes
48.018	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN); BSS GPRS Protocol	G2							Y	Y		yes
48.020	Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface	N3							Y	Y		yes

Number	Title	WG	Ph1	Ph2	R96	R97	R98	R99	Rel-4	Rel-5	Rel-6	active
48.031	Location Services LCS; Serving Mobile Location Centre - Serving Mobile Location Centre (SMLC - SMLC); SMLCPP specification	G2							Y	Y		yes
48.051	Base Station Controller - Base Transceiver Station (BSC-BTS) Interface General Aspects	G2							Y			yes
48.052	Base Station Controller - Base Transceiver Station (BSC-BTS) Interface - Interface Principles	G2							Y			yes
48.054	BSC-BTS : Layer 1 Structure of Physical Circuits	G2							Y			yes
48.056	BSC-BTS Layer 2 Specification	G2							Y			yes
48.058	Base Station Controller - Base Transceiver Station (BSC-BTS) Interface Layer 3 Specification	G2							Y	Y		yes
48.060	In-band control of remote transcoders and rate adaptors for full rate traffic channels	G1							Y	Y		yes
48.061	In-band control of remote transcoders and rate adaptors for half rate traffic channels	G1							Y	Y		yes
48.062	Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3	S4							w			
48.071	Location Services (LCS); Serving Mobile Location Centre - Base Station System (SMLC-BSS) interface; Layer 3 specification	G2							Y			yes
49.001	General network interworking scenarios	N4							Y	Y		yes
49.008	Application of the Base Station System Application Part (BSSAP) on the E-Interface	N1							Y	Y		yes
49.031	Location Services (LCS); Base Station System Application Part LCS Extension (BSSAP-LE)	G2							Y	Y		yes
49.994	Recommended infrastructure measures to overcome specific Mobile Station (MS) faults	N1							w	w	w	
50.043	Support of Localised Service Area (SoLSA); Work Item Status	S1							w			yes
50.056	Project scheduling and open issues: GSM Cordless Telephony System CTS, Phase 1	S2							w			
50.059	Enhanced Data rates for GSM Evolution (EDGE); Project scheduling and open issues for EDGE	G1							Y			yes
50.089	GSM to other Systems Handover and Cell Selection/Reselection; Project scheduling and open issues;	GP							w			
50.099	GERAN project plan and open issues	GP							w	Y		yes
51.010-1	Mobile Station (MS) conformance specification; Part 1: Conformance specification	G5							Y			yes
51.010-2	Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification	G5							Y			yes
51.010-3	Mobile Station (MS)	G5							Y			yes

Number	Title	WG	Ph1	Ph2	R96	R97	R98	R99	Rel-4	Rel-5	Rel-6	active
	conformance specification; Part 3: Layer3 (L3) Abstract Test Suite (ATS)											
51.010-4	Mobile Station (MS) conformance specification; Part 4: SIM Application Toolkit conformance specification	G5							Y			yes
51.011	Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface	T3							Y	w		yes
51.013	Test specification for SIM API for Java card	T3							Y	Y		yes
51.014	Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit	T3							w			
51.021	GSM radio aspects base station system equipment specification	G3							Y	Y		yes
51.026	GSM Repeater Equipment Specification	G3							Y	Y		yes
52.008	Telecommunication management; GSM subscriber and equipment trace	S5									Y	yes
52.021	Network Management (NM) Procedures and Messages on the A-bis Interface	G3							Y	Y		yes
52.071	Location Services (LCS); Location services management	S5							w			
52.402	Telecommunication management; Performance Management (PM); Performance measurements - GSM	S5							Y	Y		yes
55.216	Specification of the A5/3 encryption algorithms for GSM and EDGE, and the GEA3 encryption algorithm for GPRS; Document 1: A5/3 and GEA3 specification	S3									Y	yes
55.217	Specification of the A5/3 encryption algorithms for GSM and EDGE, and the GEA3 encryption algorithm for GPRS; Document 2: Implementors' test data	S3									Y	yes
55.218	Specification of the A5/3 encryption algorithms for GSM and EDGE, and the GEA3 encryption algorithm for GPRS; Document 3: Design and conformance test data	S3									Y	yes
55.919	Specification of the A5/3 encryption algorithms for GSM and EDGE, and the GEA3 encryption algorithm for GPRS; Document 4: Design and evaluation report	S3									Y	yes

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Table 2: Specs genealogy

To use table 2, find the spec of interest in the middle ("father") column. Look at the left-hand column to see its predecessor, and at the right-hand column to see its successor. Entries of "x" and of "--" mean "none".

grandfather	father	son
x	00.01U	--
x	00.02	--
x	00.02U	--
x	01.00	21.100
x	01.00	21.801
x	01.01	41.001
x	01.02	--
x	01.03U	--
x	01.04	21.905
x	01.04U	--
x	01.05	--
x	01.05U	--
x	01.06	--
x	01.07	--
x	01.31	41.031
10.20	01.33	21.133
10.20	01.33	41.033
x	01.48	--
x	01.50	--
x	01.51	--
x	01.56	--
x	01.60	--
x	01.61	41.061
x	01.78	--
x	02.01	22.001
x	02.01U	--
x	02.02	22.002
x	02.03	22.003
x	02.04	22.004
x	02.05	--
x	02.06	--
x	02.07	22.907
x	02.08	22.25U
x	02.09	42.009
x	02.10	--
x	02.11	22.011
x	02.12	--
x	02.13	--
x	02.14	--
x	02.15	--
x	02.16	22.016
x	02.17	42.017
x	02.18	--
x	02.19	42.019
x	02.20	--
x	02.21	22.121
x	02.22	22.022
x	02.24	22.024
x	02.24	22.24U
x	02.25	--
x	02.26	--
x	02.27	--
x	02.28	--
x	02.29	22.129

grandfather	father	son
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x	02.31	42.031
x	02.32	22.032
x	02.32	42.032
x	02.33	42.033
x	02.34	22.034
x	02.35	--
x	02.36	--
x	02.37	--
x	02.38	22.038
x	02.40	--
x	02.41	22.041
x	02.42	22.042
22.043	02.43	22.043
22.043	02.43	42.043
x	02.43	22.043
x	02.43	42.043
x	02.48	42.048
x	02.53	22.053
x	02.53	42.053
x	02.56	42.056
x	02.57	22.057
x	02.60	22.060
x	02.63	--
x	02.66	22.066
x	02.67	22.067
x	02.68	42.068
x	02.69	42.069
x	02.71	22.071
x	02.72	22.072
x	02.73	--
x	02.76	22.076
x	02.77	--
x	02.78	22.078
x	02.79	22.079
x	02.81	22.081
x	02.82	22.082
x	02.83	22.083
x	02.84	22.084
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x	02.86	22.086
x	02.87	22.087
x	02.88	22.088
x	02.90	22.090
x	02.91	22.091
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x	02.93	22.093
x	02.94	22.094
x	02.95	--
x	02.96	22.096
x	02.97	22.097
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x	02.99	--
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x	03.03	23.003
x	03.04	--
x	03.05	43.005
x	03.07	23.007

grandfather	father	son
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x	03.09	23.009
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x	03.10	43.010
x	03.11	23.011
x	03.12	23.012
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x	03.15	23.015
x	03.16	23.016
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x	03.18	23.018
x	03.19	43.019
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x	03.22	23.022
x	03.22	43.022
x	03.26	43.026
x	03.30	43.030
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x	03.33	43.033
x	03.34	23.034
x	03.35	23.035
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x	03.42	23.042
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x	03.44	23.044
x	03.45	23.045
x	03.45	43.045
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x	03.46	23.146
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x	03.48	43.048
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x	03.53	23.053
x	03.54	23.054
x	03.55	43.055
x	03.56	--
x	03.57	23.057
x	03.58	43.058
x	03.59	43.059
x	03.60	23.060
x	03.61	--
x	03.62	--
x	03.63	43.063
x	03.64	43.064
x	03.66	23.066
x	03.67	23.067
x	03.68	43.068
x	03.70	23.070
x	03.71	23.071

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x	03.88	23.088
x	03.90	23.090
x	03.91	23.091
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x	04.18	44.018
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x	04.53	--
x	04.56	44.056
x	04.57	44.057
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x	04.61	--
x	04.62	--
x	04.63	44.063
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x	04.65	44.065
x	04.67	24.067

grandfather	father	son
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x	04.69	24.069
x	04.69	44.069
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x	04.71	44.071
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x	04.78	--
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x	04.80	24.080
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x	04.85	24.085
x	04.86	24.086
x	04.87	24.087
x	04.88	24.088
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x	04.91	24.091
x	04.93	24.093
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x	06.02	46.002
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x	06.22	46.022
x	06.31	46.031
x	06.32	46.032

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x	06.42	46.042
x	06.51	46.051
x	06.53	46.053
x	06.54	46.054
x	06.55	46.055
x	06.60	46.060
x	06.61	46.061
x	06.62	46.062
x	06.71	26.071
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x	06.75	26.075
x	06.76	46.076
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x	06.94	26.094
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x	07.02	27.002
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x	07.07	27.007
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x	07.10	27.010
x	07.57	--
x	07.60	27.060
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x	08.02	48.002
x	08.04	48.004
x	08.06	48.006
x	08.08	48.008
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x	08.16	48.016
x	08.18	48.018
x	08.20	28.020
x	08.20	48.020
x	08.31	48.031
x	08.51	48.051
x	08.52	48.052
x	08.54	48.054
x	08.56	48.056
x	08.58	48.058
x	08.59	--
x	08.60	48.060
x	08.61	48.061
x	08.62	28.062
x	08.62	48.062
x	08.64	--
x	08.71	48.071
x	09.01	49.001
x	09.02	29.002

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x	09.05	29.005
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x	09.91	--
x	09.92	--
x	09.94	29.994
x	09.94	49.994
x	09.95	--
x	10.00	--
x	10.01	30.801
x	10.02	30.002
x	10.14	--
x	10.17	--
x	10.20	01.33
x	10.43	50.043
x	10.56	50.056
x	10.57	--
x	10.59	50.059
x	10.60	--
x	10.66	--
x	10.68	--
x	10.70	--
x	10.71	--
x	10.76	--
x	10.78	--
x	10.87	--
x	10.89	50.089
x	10.94	--
x	10.99	50.099
x	11.01	--
x	11.10	11.10-1
x	11.10	11.10-2
11.10	11.10-1	51.010-1
11.10	11.10-2	51.010-2
x	11.10-3	51.010-3
x	11.10-4	51.010-4
x	11.11	51.011
x	11.12	--
x	11.14	51.014
x	11.16	--
x	11.17	--

grandfather	father	son
x	11.18	31.101
x	11.19	--
x	11.20	--
x	11.21	51.021
x	11.22	--
x	11.23	--
x	11.24	--
x	11.25	--
x	11.26	51.026
x	11.30	--
x	11.31	--
x	11.32	--
x	11.40	--
x	11.56	--
x	12.00	--
x	12.01	--
x	12.02	--
x	12.03	--
x	12.04	32.104
x	12.05	32.005
x	12.05	32.105
x	12.06	32.106
x	12.07	--
x	12.08	32.008
x	12.10	--
x	12.11	32.111
x	12.13	--
x	12.14	--
x	12.15	32.015
x	12.20	--
x	12.21	52.021
x	12.22	--
x	12.30	--
x	12.71	52.071
x	13.01	13.01-1
x	13.01	13.01-2
13.01	13.01-1	--
13.01	13.01-2	--
x	13.02	13.02-1
x	13.02	13.02-2
13.02	13.02-1	--
13.02	13.02-2	--
x	13.11	--
x	13.21	--
x	13.34	--
x	13.55	--
x	13.56	--
x	13.57	--
x	13.59	--
x	13.60	--
x	13.67	--
x	13.68	--
x	21.010	--
x	21.01U	--
x	21.02U	--
x	21.04U	--
x	21.06U	--
01.00	21.100	21.900
x	21.101	21.102

grandfather	father	son
21.101	21.102	21.103
21.102	21.103	21.104
21.103	21.104	--
x	21.111	--
01.33	21.133	--
01.00	21.801	--
21.910	21.810	--
x	21.877	--
21.100	21.900	--
x	21.904	--
01.04	21.905	--
25.990	21.905	--
x	21.906	--
x	21.910	21.810
x	21.978	--
x	22,934	--
02.01	22.001	--
02.02	22.002	--
02.03	22.003	--
02.04	22.004	--
x	22.00U	22.100
02.11	22.011	--
02.16	22.016	--
x	22.01U	22.101
02.22	22.022	--
02.24	22.024	--
02.30	22.030	--
02.32	22.032	--
42.032	22.032	--
02.34	22.034	--
02.38	22.038	--
02.41	22.041	--
02.42	22.042	--
02.43	22.043	02.43
42.048	22.048	--
02.53	22.053	--
42.053	22.053	--
02.57	22.057	--
x	22.05U	22.105
02.60	22.060	--
02.66	22.066	--
02.67	22.067	--
02.71	22.071	--
02.72	22.072	--
02.76	22.076	--
02.78	22.078	--
02.79	22.079	--
x	22.07U	--
02.81	22.081	--
02.82	22.082	--
02.83	22.083	--
02.84	22.084	--
02.85	22.085	--
02.86	22.086	--
02.87	22.087	--
02.88	22.088	--
02.90	22.090	--
02.91	22.091	--
02.93	22.093	--

grandfather	father	son
02.94	22.094	--
02.96	22.096	--
02.97	22.097	--
22.00U	22.100	--
22.01U	22.101	--
22.05U	22.105	--
x	22.112	--
22.24U	22.115	--
02.21	22.121	--
x	22.127	--
02.29	22.129	--
x	22.135	--
x	22.140	--
x	22.141	--
22.946	22.146	--
x	22.174	--
22.977	22.177	--
x	22.21U	22.70U
x	22.226	--
x	22.227	--
x	22.228	--
x	22.233	--
x	22.240	--
x	22.242	--
x	22.243	--
02.24	22.24U	22.115
02.24	22.24U	22.924
x	22.250	--
02.08	22.25U	22.925
x	22.29U	--
x	22.30U	--
x	22.35U	--
x	22.40U	--
x	22.45U	--
x	22.50U	--
x	22.55U	--
x	22.60U	--
22.21U	22.70U	22.970
x	22.71U	22.971
x	22.72U	--
x	22.75U	22.975
x	22.80U	--
x	22.857	--
02.07	22.907	--
22.24U	22.924	--
22.25U	22.925	--
x	22.928	--
x	22.940	--
x	22.941	--
x	22.944	--
x	22.945	--
x	22.946	22.146
x	22.950	--
x	22.951	--
x	22.960	--
22.70U	22.970	--
22.71U	22.971	--
x	22.972	--
22.75U	22.975	--

grandfather	father	son
x	22.976	--
x	22.977	22.177
03.02	23.002	--
03.03	23.003	--
03.07	23.007	--
03.08	23.008	--
03.09	23.009	--
03.10	23.010	--
03.11	23.011	--
03.12	23.012	--
03.14	23.014	--
03.15	23.015	--
03.16	23.016	--
03.18	23.018	--
x	23.01U	23.05U
03.22	23.022	23.122
03.32	23.032	--
03.34	23.034	--
03.35	23.035	--
43.035	23.035	--
03.38	23.038	--
03.39	23.039	--
03.40	23.040	--
03.41	23.041	--
03.42	23.042	--
03.43	23.043	--
03.44	23.044	--
03.45	23.045	--
03.46	23.046	43.046
43.048	23.048	--
03.53	23.053	--
03.54	23.054	--
03.57	23.057	--
23.01U	23.05U	--
03.60	23.060	--
03.66	23.066	--
03.67	23.067	--
03.69	23.069	--
03.70	23.070	--
03.71	23.071	--
03.72	23.072	--
03.73	23.073	03.73
03.73	23.073	43.073
03.78	23.078	23.178
03.79	23.079	--
03.81	23.081	--
03.82	23.082	--
03.83	23.083	--
03.84	23.084	--
03.85	23.085	--
03.86	23.086	--
03.87	23.087	--
03.88	23.088	--
03.90	23.090	--
03.91	23.091	--
03.93	23.093	--
03.94	23.094	--
03.96	23.096	--
03.97	23.097	--

grandfather	father	son
03.01	23.101	--
x	23.107	--
x	23.108	--
x	23.10U	23.110
23.10U	23.110	--
x	23.116	--
x	23.119	--
x	23.121	23.221
23.022	23.122	--
x	23.122	--
x	23.127	--
x	23.135	--
03.40	23.140	--
23.841	23.141	--
03.46	23.146	--
x	23.153	--
03.71	23.171	23.271
x	23.172	--
x	23.174	--
23.078	23.178	23.278
x	23.205	--
x	23.207	--
x	23.20U	--
x	23.218	--
23.121	23.221	--
x	23.226	--
x	23.227	--
23.922	23.228	--
x	23.236	--
x	23.240	--
x	23.241	--
23.846	23.246	--
23.171	23.271	--
23.871	23.271	--
23.178	23.278	--
x	23.40U	--
x	23.50U	--
x	23.60U	--
x	23.70U	--
x	23.80U	--
x	23.814	--
23.915	23.815	--
x	23.821	--
x	23.841	23.141
x	23.846	23.246
x	23.871	23.271
x	23.873	--
x	23.874	--
23.974	23.875	--
x	23.907	--
x	23.908	--
x	23.909	--
x	23.90U	--
x	23.910	--
x	23.911	--
x	23.912	--
x	23.913	--
x	23.915	23.815
x	23.917	--

grandfather	father	son
x	23.920	--
x	23.922	23.228
x	23.923	--
x	23.925	--
x	23.927	--
x	23.930	--
x	23.934	--
x	23.955	--
x	23.95U	--
x	23.960	--
x	23.972	--
x	23.974	23.875
04.02	24.002	--
04.04	24.004	--
04.07	24.007	--
04.08	24.008	--
04.10	24.010	--
04.11	24.011	--
04.12	24.012	--
04.22	24.022	--
04.30	24.030	--
x	24.05U	--
04.65	24.065	--
04.67	24.067	--
04.68	24.068	--
04.69	24.069	--
04.72	24.072	--
04.80	24.080	--
04.81	24.081	--
04.82	24.082	--
04.83	24.083	--
04.84	24.084	--
04.85	24.085	--
04.86	24.086	--
04.87	24.087	--
04.88	24.088	--
04.90	24.090	--
04.91	24.091	--
04.93	24.093	--
04.96	24.096	--
x	24.10U	--
x	24.135	--
x	24.228	--
x	24.229	--
x	24.241	--
x	24.841	x
x	24.946	--
x	25.053	--
x	25.05U	--
x	25.101	--
x	25.102	--
x	25.104	--
x	25.105	--
x	25.106	--
x	25.107	--
x	25.10U	--
x	25.113	--
x	25.123	--
x	25.133	--

grandfather	father	son
x	25.141	--
x	25.142	--
x	25.143	--
x	25.15U	--
x	25.201	--
x	25.20U	--
x	25.211	--
x	25.212	--
x	25.213	--
x	25.214	--
x	25.215	--
x	25.221	--
x	25.222	--
x	25.223	--
x	25.224	--
x	25.225	--
x	25.301	--
x	25.302	--
x	25.303	--
x	25.304	--
25.923	25.305	--
25.926	25.306	--
x	25.307	--
25.855	25.308	--
x	25.321	--
x	25.322	--
x	25.323	--
x	25.324	--
x	25.331	--
x	25.371	--
x	25.401	--
x	25.402	--
x	25.410	--
x	25.411	--
x	25.412	--
x	25.413	--
x	25.414	--
x	25.415	--
x	25.419	--
x	25.420	--
x	25.421	--
x	25.422	--
x	25.423	--
x	25.424	--
x	25.425	--
x	25.426	--
x	25.427	--
x	25.430	--
x	25.431	--
x	25.432	--
x	25.433	--
x	25.434	--
x	25.435	--
x	25.442	--
x	25.450	--
x	25.451	--
x	25.452	--
x	25.453	--
x	25.831	--

grandfather	father	son
x	25.832	--
x	25.833	--
x	25.834	--
x	25.835	--
x	25.836	--
x	25.837	--
x	25.838	--
x	25.839	--
x	25.840	--
x	25.841	--
x	25.842	--
x	25.843	--
x	25.844	25.860
x	25.845	--
x	25.846	--
x	25.847	--
x	25.848	--
x	25.849	--
x	25.850	--
x	25.851	--
x	25.852	--
25.932	25.853	--
x	25.854	--
25.950	25.855	25.308
x	25.856	--
x	25.857	--
x	25.858	--
x	25.859	--
25.844	25.860	--
x	25.861	--
x	25.867	--
x	25.868	--
x	25.869	--
x	25.870	--
x	25.875	--
x	25.876	--
x	25.877	--
x	25.878	--
x	25.879	--
x	25.880	--
x	25.881	--
x	25.881	25.891
x	25.882	--
x	25.883	--
x	25.884	--
x	25.885	--
x	25.886	--
xx	25.887	--
x	25.888	--
x	25.889	--
x	25.890	--
25.881	25.891	--
x	25.892	--
x	25.893	--
x	25.921	--
x	25.922	--
x	25.923	25.305
x	25.924	--
x	25.925	--

grandfather	father	son
x	25.926	25.306
x	25.928	--
x	25.931	--
x	25.932	25.853
x	25.933	--
x	25.934	--
x	25.935	--
x	25.936	--
x	25.937	--
x	25.938	--
x	25.941	--
x	25.942	--
x	25.943	--
x	25.944	--
x	25.945	--
x	25.946	--
x	25.950	25.855
x	25.951	--
x	25.952	--
x	25.953	--
x	25.954	--
x	25.956	--
x	25.990	21.905
x	25.991	--
06.71	26.071	--
06.73	26.073	26.173
06.74	26.074	--
06.75	26.075	26.975
06.77	26.077	--
06.78	26.078	--
06.90	26.090	--
06.91	26.091	--
06.92	26.092	--
06.93	26.093	--
06.94	26.094	--
x	26.101	26.201
x	26.102	26.202
x	26.103	--
x	26.104	--
x	26.104	26.204
x	26.110	--
x	26.111	--
x	26.112	--
26.915	26.115	26.915
x	26.121	--
x	26.122	--
x	26.131	--
x	26.132	--
x	26.133	--
x	26.134	--
x	26.135	--
x	26.136	--
x	26.137	--
x	26.138	--
x	26.15U	--
x	26.171	--
26.073	26.173	--
x	26.174	--
x	26.190	--

grandfather	father	son
x	26.191	--
x	26.192	--
x	26.193	--
x	26.194	--
26.101	26.201	--
26.102	26.202	--
26.104	26.204	--
x	26.226	--
x	26.230	--
x	26.231	--
x	26.233	--
x	26.234	--
x	26.235	--
x	26.901	--
x	26.911	--
x	26.912	--
x	26.913	--
26.115	26.915	26.115
x	26.920	--
x	26.937	--
26.075	26.975	--
x	26.976	--
x	26.978	--
07.01	27.001	--
07.02	27.002	--
07.03	27.003	--
07.05	27.005	--
07.07	27.007	--
x	27.00U	--
07.10	27.010	--
07.60	27.060	--
x	27.103	--
x	27.104	27.241
x	27.226	--
27.104	27.241	--
x	27.901	--
x	27.903	--
08.20	28.020	--
08.62	28.062	--
09.02	29.002	--
09.04	29.004	--
09.05	29.005	--
09.06	29.006	--
09.07	29.007	--
09.10	29.010	--
09.11	29.011	--
09.13	29.013	--
09.16	29.016	--
09.18	29.018	--
09.60	29.060	--
09.61	29.061	--
09.78	29.078	--
09.08	29.108	--
x	29.119	--
x	29.120	--
x	29.162	--
x	29.163	--
x	29.198	--
x	29.198-01	--

grandfather	father	son
x	29.198-02	--
x	29.198-03	--
x	29.198-04	--
x	29.198-04	29.198-04-1
x	29.198-04	29.198-04-2
x	29.198-04	29.198-04-3
x	29.198-04	29.198-04-4
29.198-04	29.198-04-1	--
29.198-04	29.198-04-2	--
29.198-04	29.198-04-3	--
29.198-04	29.198-04-4	--
x	29.198-05	--
x	29.198-06	--
x	29.198-07	--
x	29.198-08	--
x	29.198-09	--
x	29.198-10	--
x	29.198-11	--
x	29.198-12	--
x	29.198-13	--
x	29.198-14	--
x	29.202	--
x	29.203	--
x	29.205	--
x	29.207	--
x	29.208	--
x	29.226	--
x	29.228	--
x	29.229	--
x	29.232	--
x	29.240	--
x	29.278	--
x	29.328	--
x	29.329	--
x	29.332	--
x	29.414	--
x	29.415	--
x	29.846	--
x	29.903	--
x	29.993	--
09.94	29.994	--
x	29.998	--
x	29.998-01	--
x	29.998-04-1	--
x	29.998-04-2	--
x	29.998-04-3	--
x	29.998-04-4	--
x	29.998-05-1	--
x	29.998-05-2	--
x	29.998-05-3	--
x	29.998-05-4	--
x	29.998-06	--
x	29.998-08	--
10.02	30.002	--
x	30.00U	--
x	30.01U	--
x	30.02U	--
x	30.03U	--
x	30.04U	--

grandfather	father	son
x	30.05U	--
x	30.06U	--
x	30.20U	--
x	30.504	--
x	30.531	--
10.01	30.801	--
x	30.802	--
x	30.804	--
x	30.806	--
x	30.808	--
x	30.810	--
x	30.812	--
x	31.048	--
11.18	31.101	--
x	31.102	--
x	31.103	--
x	31.110	--
x	31.111	--
x	31.112	--
x	31.113	--
x	31.114	--
x	31.115	--
x	31.116	--
x	31.120	--
x	31.121	--
x	31.122	--
x	31.131	--
x	31.900	--
12.05	32.005	--
12.08	32.008	32.108
12.15	32.015	--
x	32.01U	--
x	32.101	--
x	32.102	--
12.04	32.104	32.401
12.04	32.104	32.402
12.04	32.104	32.403
12.05	32.105	--
12.06	32.106	32.106-1
12.06	32.106	32.106-2
12.06	32.106	32.106-3
12.06	32.106	32.106-4
12.06	32.106	32.106-5
12.06	32.106	32.106-6
12.06	32.106	32.106-7
12.06	32.106	32.106-8
12.06	32.106	32.301-1
12.06	32.106	32.301-2
12.06	32.106	32.600
32.106	32.106-1	--
32.106	32.106-2	--
32.106	32.106-3	--
32.106	32.106-4	--
32.106	32.106-5	--
32.106	32.106-6	--
32.106	32.106-7	--
32.106	32.106-8	--
32.008	32.108	32.411
32.008	32.108	32.421

grandfather	father	son
32.008	32.108	32.422
32.008	32.108	32.423
32.008	32.108	52.008
12.11	32.111	32.111-1
12.11	32.111	32.111-2
12.11	32.111	32.111-3
12.11	32.111	32.111-4
32.111	32.111-1	--
32.111	32.111-2	--
32.111	32.111-3	--
32.111	32.111-4	--
x	32.112	32.112-1
x	32.112	32.112-2
32.112	32.112-1	32.311
32.112	32.112-2	32.312
x	32.113	--
x	32.114	--
x	32.140	--
x	32.200	--
x	32.205	--
x	32.215	--
x	32.225	--
x	32.235	--
x	32.300	--
32.301-1	32.301	--
32.106	32.301-1	32.301
32.106	32.301-2	32.302
x	32.301-3	32.303
x	32.301-4	
32.301-2	32.302	--
32.301-3	32.303	--
31.301-4	32.304	--
32.112-1	32.311	--
32.112-2	32.312	--
x	32.321	--
x	32.322	--
x	32.323	--
x	32.324	--
32.104	32.401	--
32.104	32.402	52.402
32.104	32.403	--
32.108	32.411	--
32.108	32.421	--
32.108	32.422	--
32.108	32.423	--
32.106	32.600	--
32.601-1	32.601	--
x	32.601-1	32.601
x	32.601-2	32.602
x	32.601-3	32.603
x	32.601-4	32.604
32.601-2	32.602	--
x	32.602-1	32.611
x	32.602-2	32.612
x	32.602-3	32.613
x	32.602-4	32.614
x	32.602-5	32.615
32.601-3	32.603	--
32.601-4	32.604	--

grandfather	father	son
32.602-1	32.611	--
32.602-2	32.612	--
32.602-3	32.613	--
32.602-4	32.614	--
32.602-5	32.615	--
x	32.620-1	32.621
x	32.620-2	32.622
x	32.620-3	32.623
x	32.620-4	32.624
32.620-1	32.621	--
x	32.621-1	32.631
x	32.621-2	32.632
x	32.621-3	32.633
x	32.621-4	32.634
32.620-2	32.622	--
x	32.622-1	32.641
x	32.622-2	32.642
x	32.622-3	32.643
x	32.622-4	32.644
32.620-3	32.623	--
x	32.623-1	32.651
x	32.623-2	32.652
x	32.623-3	32.653
x	32.623-4	32.654
32.620-4	32.624	--
x	32.625	--
32.621-1	32.631	--
32.621-2	32.632	--
32.621-3	32.633	--
32.621-4	32.634	--
x	32.635	--
32.622-1	32.641	--
32.622-2	32.642	--
32.622-3	32.643	--
32.622-4	32.644	--
x	32.645	--
32.623-1	32.651	--
32.623-2	32.652	--
32.623-3	32.653	--
32.623-4	32.654	--
x	32.655	--
x	32.661	--
x	32.662	--
x	32.663	--
x	32.664	--
x	32.671	--
x	32.672	--
x	32.673	--
x	32.674	--
x	32.681	--
x	32.682	--
x	32.683	--
x	32.684	--
x	32.691	--
x	32.692	--
x	32.800	--
x	32.801	--
x	32.802	--
x	33.102	--

grandfather	father	son
x	33.103	--
x	33.105	--
x	33.106	--
x	33.107	--
x	33.108	--
x	33.120	--
x	33.200	--
x	33.201	--
x	33.203	--
x	33.20U	--
x	33.210	--
x	33.21U	--
x	33.800	--
33.910	33.810	--
x	33.900	--
x	33.901	--
x	33.902	--
x	33.903	--
x	33.904	--
x	33.908	--
x	33.909	--
x	33.910	33.810
x	34.108	--
x	34.109	--
x	34.121	--
x	34.122	--
x	34.123-1	--
x	34.123-2	--
x	34.123-3	--
x	34.124	--
x	34.131	--
x	34.907	--
x	34.910	--
x	34.925	--
x	34.926	--
x	35.201	--
x	35.202	--
x	35.203	--
x	35.204	--
x	35.205	--
x	35.206	--
x	35.207	--
x	35.208	--
x	35.209	35.909
35.209	35.909	--
01.01	41.001	41.102
01.31	41.031	--
01.33	41.033	--
01.61	41.061	--
41.001	41.102	41.103
41.102	41.103	41.104
41.103	41.104	--
x	41.811	45.811
02.09	42.009	--
02.17	42.017	--
02.19	42.019	--
02.31	42.031	--
02.32	42.032	--
02.32	42.032	22.032

grandfather	father	son
02.33	42.033	--
02.43	42.043	--
02.48	42.048	22.048
02.53	42.053	22.053
02.56	42.056	--
02.68	42.068	--
02.69	42.069	--
03.05	43.005	--
03.10	43.010	--
03.13	43.013	--
03.19	43.019	--
03.20	43.020	--
03.22	43.022	--
03.26	43.026	--
03.30	43.030	--
03.31	43.031	--
03.33	43.033	--
03.35	43.035	--
03.35	43.035	23.035
03.45	43.045	--
23.046	43.046	--
03.48	43.048	23.048
03.50	43.050	--
03.51	43.051	--
03.52	43.052	--
03.55	43.055	--
03.58	43.058	--
03.59	43.059	--
03.63	43.063	--
03.64	43.064	--
03.68	43.068	--
03.69	43.069	--
03.71	43.071	--
23.073	43.073	
x	43.900	--
x	43.930	--
04.01	44.001	--
04.03	44.003	--
04.04	44.004	--
04.05	44.005	--
04.06	44.006	--
04.08	44.008	--
04.12	44.012	--
04.13	44.013	--
04.14	44.014	--
04.18	44.018	--
04.18	44.018	44.118
04.21	44.021	--
04.31	44.031	--
04.35	44.035	--
04.56	44.056	--
04.57	44.057	--
04.60	44.060	44.160
04.63	44.063	--
04.64	44.064	--
04.65	44.065	--
04.68	44.068	--
04.69	44.069	--
04.71	44.071	--

grandfather	father	son
44.018	44.118	--
44.060	44.160	--
x	44.901	--
05.01	45.001	--
05.02	45.002	--
05.03	45.003	--
05.04	45.004	--
05.05	45.005	--
05.08	45.008	--
05.09	45.009	--
05.10	45.010	--
05.22	45.022	--
05.50	45.050	--
05.56	45.056	--
41.811	45.811	--
06.01	46.001	--
06.02	46.002	--
06.06	46.006	--
06.07	46.007	--
06.08	46.008	--
06.10	46.010	--
06.11	46.011	--
06.12	46.012	--
06.20	46.020	--
06.21	46.021	--
06.22	46.022	--
06.31	46.031	--
06.32	46.032	--
06.41	46.041	--
06.42	46.042	--
06.51	46.051	--
06.53	46.053	--
06.54	46.054	--
06.55	46.055	--
06.60	46.060	--
06.61	46.061	--
06.62	46.062	--
06.76	46.076	--
06.81	46.081	--
06.82	46.082	--
06.85	46.085	--
08.01	48.001	--
08.02	48.002	--
08.04	48.004	--
08.06	48.006	--
08.08	48.008	--
08.14	48.014	--
08.16	48.016	--
08.18	48.018	--
08.20	48.020	--
08.31	48.031	--
08.51	48.051	--
08.52	48.052	--
08.54	48.054	--
08.56	48.056	--
08.58	48.058	--
08.60	48.060	--
08.61	48.061	--
08.62	48.062	--

grandfather	father	son
08.71	48.071	--
09.01	49.001	--
09.08	49.008	--
09.31	49.031	--
09.94	49.994	--
10.43	50.043	--
10.56	50.056	--
10.59	50.059	--
10.89	50.089	--
10.99	50.099	--
11.10-1	51.010-1	--
11.10-2	51.010-2	--
11.10-3	51.010-3	--
11.10-4	51.010-4	--
11.11	51.011	--
11.13	51.013	--
11.14	51.014	--
11.21	51.021	--
11.26	51.026	--
32.108	52.008	--
12.21	52.021	--
12.71	52.071	--
32.402	52.402	--
x	55.216	--
x	55.217	--
x	55.218	--
x	55.919	--
x	TBR 5	--
x	TBR 9	--
x	TBR19	--
x	TBR20	--
x	TBR31	--
x	TBR32	--

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