COMMUNICATIONS AND MULTIMEDIA ACT 1998

VARIATION TO COMMISSION DETERMINATION ON THE MANDATORY STANDARDS FOR INTERNATIONAL MOBILE TELECOMMUNICATIONS 2000 TERRESTRIAL COMPONENT (DETERMINATION NO. 5 OF 2002)

DETERMINATION No. 1 of 2004

In exercise of the powers conferred by sections 55, 56, 104(2) and 106 of the Communications and Multimedia Act 1998 [*Act 588*], the Commission hereby determines as follows:

Citation and Commencement

1.   This Determination may be cited as the **Variation to Commission Determination on the Mandatory Standards for International Mobile Telecommunications 2000 Terrestrial Component (Determination No. 5 of 2002), Variation No. 1 of 2004** ("Determination") and shall come into force on the date of its registration.

Variation of paragraph 7

2.   The Commission Determination on the Mandatory Standards for International Mobile Telecommunications 2000 Terrestrial Component, Determination No. 5 of 2002 ("the principal Determination"), is varied by substituting for paragraph 7(3)(A) the following paragraph-

   "The 3GPP document series titles and its descriptions are as follows-

   01 / 21 / 41-series   Requirements specifications
   These specifications are often transient and contain requirements towards other specifications. They may become obsolete when technical solutions have been fully specified; they could then, e.g., be replaced by reports describing the performance of the system, they could be deleted without replacement or be kept for historical reasons but turned into background material. When found necessary and appropriate, the transient or permanent nature of a requirement specification may be expressed in its scope.

   02 / 22 / 42-series   Service aspects
   Specifications in this series specify services, service features, building blocks or platforms for services (a service feature or service building block may provide certain generic functionality's for the composition of a service, including the control by the user; a platform may comprise a single or more network elements, e.g. Subscriber Identity Module (SIM) or User Identity Module (UIM), mobile terminal, auxiliary system to the core network etc.); stage 1 specifications that are felt appropriate belong into this series; reports defining services which can be realized by generic building blocks etc. also belong into this series.

03 / 23 / 43-series   Technical realization
This series mainly contains stage 2 specifications (or specifications of a similar nature describing interworking over several interfaces, the behaviour in non-exceptional cases, etc.).

04 / 24 / 44-series   Signalling protocols (Mobile Station (MS) – Core Network (CN) network)
This series contains the detailed and bit exact stage 3 specifications of protocols between MS and the radio access in the network.

05 / 25 / 45-series   Radio aspects
This series defines the radio performance, layer 1, layer 2 or layer 3 including the Iub, Iur and Iu interfaces.

06 / 26 / 46-series   Codecs (speech, video, etc.)
This series defines speech codecs and other codecs (video etc., to be identified) for the GSM and 3GPP 3rd Generation Mobile System.

07 / 27 / 47-series   Data
This series defines the functions necessary to support data applications.

08 / 28 / 48-series   Signalling protocols (BSS or RSS - network part)
This series contains the detailed and bit exact stage 3 specifications of protocols between BSS or RSS and Core Network.

09 / 29 /49-series   Signalling protocols (NSS)
This series contains the detailed and bit exact stage 3 specifications of protocols within the Core Network.

10 / 30 / 50-series   Program management
This series contains the GSM and 3GPP 3rd Generation Mobile System, Project plans/project work programme and stand alone documents for major work items.

11 / 31 / 51-series   UIM (SIM & Universal Subscriber Identity Module (USIM))
This series specifies the UIM and the interfaces between UIM and other entities.

12 / 32 / 52-series   Operation and management
This series defines the application of Telecommunication Management Network (TMN) for the 3GPP 3rd Generation Mobile System and other functions for operation, administration and maintenance of a 3rd Generation Mobile System network.

33-series   Security aspects
This series contains specifications of security functions for the 3GPP 3rd Generation Mobile System.

34-series   Test specifications
This series contains the test specifications for the 3GPP 3rd Generation Mobile System.

35-series   Security algorithms
This series contains specifications of confidentiality and integrity algorithms for 3GPP 3rd Generation Mobile System."

3.   The principal Determination is varied by substituting for paragraph 7(3)(B) the following paragraph-

"The detailed specifications for the IMT-2000 CDMA Direct Spread and IMT-2000 CDMA TDD contained in the list of 3GPP Documents are listed in Tables 6, 7 and 8.

Table 6: **The 3GPP specification list for Release 99 (Rel-99) June 2002**

Release 99

Series	Number	Title	Version
TS	1.01	GSM Release 1999 Specifications	8.6.0
TS	1.61	General Packet Radio Service (GPRS); GPRS ciphering algorithm requirements	8.0.0
TS	2.09	Security aspects	8.0.1
TS	2.17	Subscriber Identity Module (SIM); Functional characteristics	8.0.0
TS	2.19	Subscriber Identity Module Application Programming Interface (SIM API); Stage 1	8.0.0
TS	2.31	Fraud Information Gathering System (FIGS); Service description; Stage 1	8.0.1
TS	2.33	Lawful Interception (LI); Stage 1	8.0.1
TS	2.43	Support of Localised Service Area (SoLSA); Service description; Stage 1	8.0.0
TS	2.48	Security mechanisms for the SIM Application Toolkit; Stage 1	8.0.0
TS	2.53	Tandem Free Operation (TFO); Service description; Stage 1	8.0.1
TS	2.56	GSM Cordless Telephony System (CTS), Phase 1; Service description; Stage 1	8.0.1
TS	2.68	Voice Group Call Service (VGCS); Stage 1	8.1.0
TS	2.69	Voice Broadcast Service (VBS); Stage 1	8.1.0
TS	2.76	Noise Suppression for the AMR	8.0.1
TS	2.94	Follow Me Service description; Stage 1	8.0.0
TS	2.95	Support of Private Numbering Plan (SPNP); Service description; Stage 1	8.0.0
TS	3.1	GSM Public Land Mobile Network (PLMN) Connection Types	8.3.0
TS	3.13	Discontinuous Reception (DRX) in the GSM System	8.0.0
TS	3.19	GSM API for SIM toolkit stage 2	8.4.0
TS	3.2	Security-related Network Functions	8.1.0
TS	3.22	Functions related to Mobile Station (MS) in idle mode and group receive mode	8.5.0
TS	3.31	Fraud Information Gathering System (FIGS); Service description; Stage 2	8.0.0
TS	3.33	Lawful Interception; Stage 2	8.1.0
TS	3.45	Technical Realization of Facsimile Group 3 Service - transparent	8.0.1

TS	3.46	Technical Realization of Facsimile Group 3 Service - non transparent	8.0.1
TS	3.48	Security mechanisms for SIM application toolkit; Stage 2	8.8.0
TS	3.5	Transmission Planning Aspects of the Speech Service in the GSM Public Land Mobile Network (PLMN) System	8.1.1
TS	3.52	Lower layers of the GSM Cordless Telephony System (CTS) radio interface; Stage 2	8.0.1
TS	3.53	Tandem Free Operation (TFO); Service description; Stage 2	8.0.0
TS	3.55	Dual Transfer Mode (DTM); Stage 2	8.0.0
TS	3.64	General Packet Radio Service (GPRS); Overall description of the GPRS radio interface; Stage 2	8.10.0
TS	3.68	Voice Group Call Service (VGCS); Stage 2	8.2.0
TS	3.69	Voice Broadcast service (VBS); Stage 2	8.2.0
TS	3.71	Location Services (LCS); Functional description; Stage 2	8.6.0
TS	3.73	Support of Localised Service Area (SoLSA); Stage 2	8.0.0
TS	4.01	Mobile Station - Base Station System (MS - BSS) Interface General Aspects and Principles	8.0.0
TS	4.03	Mobile Station - Base Station System (MS - BSS) Interface Channel Structures and Access Capabilities	8.0.2
TS	4.04	Layer 1 - General Requirements	8.1.2
TS	4.05	Data Link (DL) Layer General Aspects	8.0.2
TS	4.06	Mobile Station - Base Stations System (MS - BSS) Interface Data Link (DL) Layer Specification	8.2.1
TS	4.08	Mobile radio interface layer 3 specification	8.0.0
TS	4.12	Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface	8.0.0
TS	4.13	Performance Requirements on Mobile Radio Interface	8.0.1
TS	4.14	Individual equipment type requirements and interworking; Special conformance testing functions	8.3.0
TS	4.18	Mobile radio interface layer 3 specification; Radio Resource Control Protocol	8.14.0
TS	4.21	Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface	8.3.0
TS	4.31	Location Services (LCS); Mobile Station (MS) - Serving Mobile Location Centre (SMLC) Radio Resource LCS Protocol (RRLP)	8.9.0
TS	4.35	Location Services (LCS); Broadcast network assistance for Enhanced Observed Time Difference (E-OTD) and Global Positioning System (GPS) positioning methods	8.4.1
TS	4.56	GSM Cordless Telephony System (CTS), (Phase 1) CTS Radio Interface Layer 3 Specification	8.0.1
TS	4.57	GSM Cordless Telephony System (CTS), (Phase 1) CTS CTS supervising system Layer 3 Specification	8.0.1
TS	4.6	General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/ Medium Access Control (RLC/MAC) protocol	8.14.1

TS	4.64	General Packet Radio Service (GPRS); Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) layer specification	8.7.0
TS	4.65	General Packet Radio Service (GPRS); Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCP)	8.2.0
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TS	4.69	Broadcast Call Control (BCC) protocol	8.1.0
TS	4.71	Location Services (LCS); Mobile radio interface layer 3 specification	8.3.1
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TS	6.06	Half Rate Speech: ANSI-C Code for GSM Half Rate Speech Codec	8.0.1
TS	6.07	Half Rate Speech: Test Sequence for GSM Half Rate Speech Codec	8.0.1
TS	6.1	Full Rate Speech Transcoding	8.2.0
TS	6.11	Substitution and Muting of Lost Frames for Full Rate Speech Channels	8.0.1
TS	6.12	Comfort Noise Aspects for Full Rate Speech Traffic Channels	8.1.0
TS	6.2	Half Rate Speech Transcoding	8.0.1
TS	6.21	Half rate speech; Substitution and muting of lost frames for half rate speech traffic channels	8.0.1
TS	6.22	Comfort Noise Aspects for Half Rate Speech Traffic Channels	8.0.1
TS	6.31	Discontinuous Transmission (DTX) for Full Rate Speech Traffic Channels	8.0.1
TS	6.32	Voice Activity Detection (VAD)	8.0.1
TS	6.41	Discontinuous Transmission (DTX) for Half Rate Speech Traffic Channels	8.0.1
TS	6.42	Voice Activity Detection (VAD) for Half Rate Speech Traffic Channels	8.0.1
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TS	22.038	USIM/SIM Application Toolkit (USAT/SAT); Service description; Stage 1	4.1.0
TS	22.041	Operator Determined Call Barring	4.1.0
TS	22.042	Network Identity and Time Zone (NITZ) service description; Stage 1	4.1.0
TS	22.048	Security Mechanisms for the (U)SIM application toolkit; Stage 1	4.0.0
TS	22.053	Tandem Free Operation (TFO); Service description; Stage 1	4.0.1
TS	22.057	Mobile Execution Environment (MExE) service description; Stage 1	4.1.0
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TS	22.067	enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 1	4.1.0
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TS	22.076	Noise suppression for the AMR codec; Service description; Stage 1	4.0.1
TS	22.078	Customized Applications for Mobile network Enhanced Logic (CAMEL); Service description; Stage 1	4.5.0
TS	22.079	Support of optimal routeing; Stage 1	4.0.0
TS	22.081	Line Identification supplementary services; Stage 1	4.1.0
TS	22.082	Call Forwarding (CF) Supplementary Services; Stage 1	4.2.0
TS	22.083	Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 1	4.1.0
TS	22.084	MultiParty (MPTY) supplementary service; Stage 1	4.1.0
TS	22.085	Closed User Group (CUG) supplementary services; Stage 1	4.1.0
TS	22.086	Advice of Charge (AoC) supplementary services; Stage 1	4.0.0
TS	22.087	User-to-user signalling (UUS); Stage 1	4.0.0
TS	22.088	Call Barring (CB) supplementary services; Stage 1	4.1.0
TS	22.090	Unstructured Supplementary Service Data (USSD); Stage 1	4.0.0
TS	22.091	Explicit Call Transfer (ECT) supplementary service; Stage 1	4.0.0
TS	22.093	Completion of Calls to Busy Subscriber (CCBS); Service description, Stage 1	4.0.0
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TS	22.096	Name identification supplementary services; Stage 1	4.0.0
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TS	23.009	Handover procedures	4.4.0
TS	23.011	Technical realization of Supplementary Services	4.0.1
TS	23.012	Location management procedures	4.0.0
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TS	23.018	Basic Call Handling; Technical realization	4.6.0
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TS	23.041	Technical realization of Cell Broadcast Service (CBS)	4.3.0
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TS	23.048	Security Mechanisms for the (U)SIM application toolkit; Stage 2	4.3.0
TS	23.053	Tandem Free Operation (TFO); Service description; Stage 2	4.0.1
TS	23.057	Mobile Execution Environment (MExE); Functional description; Stage 2	4.5.0
TS	23.060	General Packet Radio Service (GPRS) Service description; Stage 2	4.5.0
TS	23.066	Support of GSM Mobile Number Portability (MNP) stage 2	4.0.1
TS	23.067	Enhanced Multi-Level Precedence and Preemption Service (EMLPP); Stage 2	4.1.1
TS	23.072	Call Deflection Supplementary Service; Stage 2	4.0.1
TS	23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL); Stage 2	4.5.1
TS	23.079	Support of Optimal Routeing (SOR); Technical realization; Stage 2	4.1.0
TS	23.081	Line Identification supplementary services; Stage 2	4.0.0
TS	23.082	Call Forwarding (CF) Supplementary Services; Stage 2	4.3.0
TS	23.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 2	4.3.0
TS	23.084	MultiParty (MPTY) Supplementary Service; Stage 2	4.0.0
TS	23.085	Closed User Group (CUG) Supplementary Service; Stage 2	4.0.0
TS	23.086	Advice of Charge (AoC) Supplementary Service; Stage 2	4.0.0
TS	23.087	User-to-User Signalling (UUS) supplementary service; Stage 2	4.0.0
TS	23.088	Call Barring (CB) Supplementary Service; Stage 2	4.0.0
TS	23.090	Unstructured Supplementary Service Data (USSD); Stage 2	4.0.0
TS	23.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 2	4.0.0
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TS	23.096	Name Identification Supplementary Service; Stage 2	4.0.0
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TS	23.153	Out of Band Transcoder Control; Stage 2	4.4.0
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TS	24.030	Location Services (LCS); Supplementary service operations; Stage 3	4.2.0
TS	24.067	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3	4.1.0
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TS	24.080	Mobile radio Layer 3 supplementary service specification; Formats and coding	4.3.0
TS	24.081	Line Identification Supplementary Service; Stage 3	4.0.1
TS	24.082	Call Forwarding supplementary service; Stage 3	4.0.1
TS	24.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3	4.0.1
TS	24.084	MultiParty (MPTY) Supplementary Service; Stage 3	4.0.1
TS	24.085	Closed User Group (CUG) Supplementary Service; Stage 3	4.0.1
TS	24.086	Advice of Charge (AoC) Supplementary Service; Stage 3	4.0.1
TS	24.087	User-to-User Signalling (UUS); Stage 3	4.0.1
TS	24.088	Call Barring (CB) Supplementary Service; Stage 3	4.0.1
TS	24.090	Unstructured Supplementary Service Data (USSD); Stage 3	4.0.1
TS	24.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 3	4.0.1
TS	24.093	Call Completion to Busy Subscriber (CCBS); Stage 3	4.0.1
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TS	48.018	General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN); BSS GPRS Protocol	4.5.0
TS	48.020	Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface	4.0.0
TS	48.031	Location Services LCS: Serving Mobile Location Centre - Serving Mobile Location Centre (SMLC - SMLC); SMLCPP specification	4.1.0
TS	48.051	Base Station Controller - Base Tranceiver Station (BSC-BTS) Interface General Aspects	4.1.0
TS	48.052	Base Station Controller - Base Tranceiver Station (BSC-BTS) Interface - Interface Principles	4.0.1
TS	48.054	BSC-BTS : Layer 1 Structure of Physical Circuits	4.0.0
TS	48.056	BSC-BTS Layer 2 Specification	4.0.0
TS	48.058	Base Station Controler - Base Transceiver Station (BCS-BTS) Interface Layer 3 Specification	4.1.0
TS	48.060	In-band control of remote transcoders and rate adaptors for full rate traffic channels	4.1.0
TS	48.061	In-band control of remote transcoders and rate adaptors for half rate traffic channels	4.1.1
TS	48.071	Location Services (LCS); Serving Mobile Location Centre - Base Station System (SMLC-BSS) interface; Layer 3 specification	4.3.0
TS	49.008	Application of the Base Station System Application Part (BSSAP) on the E-Interface	4.0.1
TS	49.031	Location Services (LCS); Base Station System Application Part LCS Extension (BSSAP-LE)	4.2.0
TS	51.010-1	Mobile Station (MS) conformance specification; Part 1: Conformance specification	4.8.0
TS	51.010-2	Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification	4.5.0
TS	51.010-3	Mobile Station (MS) conformance specification; Part 3: Layer3 (L3) Abstract Test Suite (ATS)	4.6.0
TS	51.010-4	Mobile Station (MS) conformance specification; Part 4: SIM Application Toolkit conformance specification	0.0.1
TS	51.011	Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface	4.4.0
TS	51.013	Test specification for SIM API for Java card	1.0.0
TS	51.021	GSM radio aspects base station system equipment specification	4.0.0
TS	51.026	GSM Repeater Equipment Specification	4.0.0
TS	52.021	Network Management (NM) Procedures and Messages on the A-bis Interface	4.0.0
TS	52.402	Telecommunication management; Performance Management (PM); Performance measurements - GSM	4.1.0

TR	21.900	Technical Specification Group working methods	4.0.0
TR	21.905	Vocabulary for 3GPP Specifications	4.4.0
TR	22.121	Service aspects; The Virtual Home Environment; Stage 1	4.1.1
TR	23.039	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	4.0.0
TR	23.821	Architecture Principles for Relase 2000	1.0.1
TR	23.873	Feasibility study fro transport and control separation in the PS CN domain	4.0.0
TR	23.874	Feasibility study of architecture for network requested PDP context activation with User-ID	1.3.0
TR	23.907	Quality of Service concept	1.2.0
TR	23.908	Technical report on Pre-Paging	4.0.0
TR	23.909	Technical report on the Gateway Location Register	4.0.0
TR	23.910	Circuit switched data bearer services	4.4.0
TR	23.911	Technical report on Out-of-band transcoder control	4.0.0
TR	23.912	Technical report on Super-Charger	4.1.0
TR	23.925	UMTS Core network based ATM transport	none
TR	23.930	Iu Principles	4.0.0
TR	25.832	Manifestations of Handover and SRNS relocation	4.0.0
TR	25.834	UTRA TDD low chip rate option; Radio protocol aspects	4.1.0
TR	25.836	Node B synchronization for TDD	4.1.0
TR	25.837	Hybrid ARQ Type II/III (Iub/Iur aspects)	0.1.0
TR	25.838	Node B Synchronisation for TDD (Iub/Iur aspects)	4.1.0
TR	25.839	Uplink Synchronous Transmission Scheme (USTS) (Iur/Iub aspects)	0.3.0
TR	25.840	Terminal power saving features	2.3.0
TR	25.841	DSCH power control improvement in soft handover	4.1.0
TR	25.842	Smart antenna	1.0.0
TR	25.843	1,28 Mcps TDD UE Radio Access Capabilities	4.1.0
TR	25.844	Radio acces bearer support enhancements	4.2.0
TR	25.845	FDD RACH and AICH performance requirements	0.0.3
TR	25.847	UE positioning enhancements	4.0.0
TR	25.848	Physical Layer Aspects of UTRA High Speed Downlink Packet Access	4.0.0
TR	25.849	DSCH power control improvement in soft handover	4.0.0
TR	25.850	UE positioning in UTRAN Iub/Iur protocol aspects	4.3.0
TR	25.851	RAB Quality of Service Renegotiation over Iu	4.0.0
TR	25.852	Radio access bearer support enhancements for the Iu	0.0.0
TR	25.853	Delay budget within the access stratum	4.0.0
TR	25.921	Guidelines and principles for protocol description and error handling	4.4.0
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TR	25.931	UTRAN Functions, examples on signalling procedures	4.4.0
TR	25.934	AAL2 QoS optimization	4.0.0
TR	25.935	RRM optimisation	4.1.0
TR	25.936	Handover for realtime services from PS-domain	4.0.1
TR	25.937	UTRAN TDD low chiprate	4.1.0
TR	25.942	RF system scenarios	4.2.0

TR	25.943	Deployment aspects	4.2.0
TR	25.944	Channel coding and multiplexing examples	4.1.0
TR	25.945	RF requirements for low chip rate TDD option	4.1.1
TR	25.946	RAB Quality of Service Negotiation over Iu	4.0.0
TR	25.950	UTRA high speed downlink packet access	4.0.0
TR	25.953	TrFO/TFO	4.0.0
TR	25.954	Migration to modification procedure	4.0.0
TR	25.956	UTRA repeater: Planning guidelines and system analysis	4.0.0
TR	26.901	AMR wideband speech codec; Feasibility study report	4.0.1
TR	26.911	Codec for Circuit switched Multimedia Telephony Service;Terminal Implementor's Guide	4.1.0
TR	26.912	Codec for Circuit switched Multimedia Telephony Service; Quantitative performance evaluation of H.324 Annex C over 3G	4.0.0
TR	26.975	Performance characterization of the Adaptive Multi-Rate (AMR) speech codec	4.1.0
TR	26.978	Results of the AMR noise suppression selection phase	4.0.0
TR	27.901	Report on Terminal Interfaces - An Overview	4.1.0
TR	27.903	Discussion of synchronization standards	4.0.0
TR	29.993	Modifications to be incorporated in equipment to cater for errors in the standards	none
TR	29.994	Recommended infrastructure measures to overcome specific Mobile Station (MS) and User Equipment (UE) faults	4.0.0
TR	29.998-01	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 1: General Issues on API Mapping	4.0.0
TR	29.998-04-	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	4.2.0
TR	29.998-05-	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	4.0.0
TR	29.998-05-	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	4.0.0
TR	29.998-06	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 6: User Location and User Status Service Mapping to MAP	4.0.0
TR	29.998-08	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 8: Data Session Control Service Mapping to CAP	4.0.0
TR	30.002	Guidelines for the modification of the Mobile Application Part (MAP)	4.0.1
TR	30.504	Work Plan and Study Items - RAN WG4	2.2.0
TR	32.800	Management level procedures and interaction with UTRAN	4.0.0
TR	33.901	Criteria for cryptographic Algorithm design process	4.0.0

TR	33.902	Formal Analysis of the 3G Authentication Protocol	4.0.0
TR	33.903	Access Security for IP based services	none
TR	33.904	Report on the Evaluation of 3GPP Standard Confidentiality and Integrity Algorithms	none
TR	33.908	3G Security; General report on the design, specification and evaluation of 3GPP standard confidentiality and integrity algorithms	4.0.0
TR	33.909	3G Security; Report on the design and evaluation of the MILENAGE algorithm set; Deliverable 5: An example algorithm for the 3GPP authentication and key generation functions	4.0.1
TR	34.910	Identification of test requirements for regulatory purposes in different regions/countries	1.0.0
TR	34.926	Table of international EMC requirements	4.0.0
TR	35.909	3G Security; Specification of the MILENAGE algorithm set: an example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 5: Summary and results of design and evaluation	
TR	41.031	Fraud Information Gathering System (FIGS); Service requirements; Stage 0	4.0.1
TR	41.033	Lawful Interception requirements for GSM	4.0.1
TR	43.005	Technical performance objectives	4.0.0
TR	43.026	Multiband operation of GSM / DCS 1800 by a single operator	4.0.0
TR	43.058	Characterisation, test methods and quality assessment for handsfree Mobile Stations (MSs)	4.0.0
TR	45.022	Radio link management in hierarchical networks	4.0.0
TR	45.050	Background for RF Requirements	4.0.1
TR	46.008	Half Rate Speech; Performance Characterization of the GSM Half Rate speech codec	4.0.0
TR	46.055	Performance characterisation of the GSM EFR Speech Codec	4.0.0
TR	46.076	Adaptive Multi-Rate (AMR) speech codec; Study phase report	4.0.1
TR	46.085	Subjective tests on the interoperability of the HR/FR/EFR speech codecs; single, tandem and tandem free operation	4.0.0
TR	49.001	General network interworking scenarios	4.0.1
TR	50.059	Enhanced Data rates for GSM Evolution (EDGE); Project scheduling and open issues for EDGE	4.0.1

*Table 8: **The 3GPP specification list for Release 5 (Rel-5) June 2002***

Release 5

Series	Number	Title	Version
TS	21.103	3rd Generation mobile system Release 5 specifications	5.0.0
TS	21.111	USIM and IC card requirements	5.0.0
TS	22.001	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)	5.0.0

TS	22.002	Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN)	5.0.0
TS	22.003	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	5.2.0
TS	22.004	General on Supplementary Services	5.0.0
TS	22.011	Service accessibility	5.0.0
TS	22.016	International Mobile Equipment Identities (IMEI)	5.0.0
TS	22.024	Description of Charge Advice Information (CAI)	5.0.0
TS	22.03	Man-Machine Interface (MMI) of the User Equipment (UE)	5.0.0
TS	22.032	Immediate Service Termination (IST); Service description; Stage 1	5.0.0
TS	22.034	High Speed Circuit Switched Data (HSCSD); Stage 1	5.0.0
TS	22.038	USIM/SIM Application Toolkit (USAT/SAT); Service description; Stage 1	5.2.0
TS	22.041	Operator Determined Call Barring	5.0.0
TS	22.042	Network Identity and Time Zone (NITZ) service description; Stage 1	5.0.0
TS	22.053	Tandem Free Operation (TFO); Service description; Stage 1	5.0.0
TS	22.057	Mobile Execution Environment (MExE) service description; Stage 1	5.4.0
TS	22.06	General Packet Radio Service (GPRS); Service description; Stage 1	5.2.0
TS	22.066	Support of Mobile Number Portability (MNP); Stage 1	5.0.0
TS	22.067	enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 1	5.0.0
TS	22.071	Location Services (LCS); Stage 1	5.1.1
TS	22.072	Call Deflection (CD); Stage 1	5.0.0
TS	22.076	Noise suppression for the AMR codec; Service description; Stage 1	5.0.0
TS	22.078	Customized Applications for Mobile network Enhanced Logic (CAMEL); Service description; Stage 1	5.7.0
TS	22.079	Support of optimal routeing; Stage 1	5.0.0
TS	22.081	Line Identification supplementary services; Stage 1	5.0.0
TS	22.082	Call Forwarding (CF) Supplementary Services; Stage 1	5.0.0
TS	22.083	Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 1	5.0.0
TS	22.084	MultiParty (MPTY) supplementary service; Stage 1	5.0.0

TS	22.085	Closed User Group (CUG) supplementary services; Stage 1	5.0.0
TS	22.086	Advice of Charge (AoC) supplementary services; Stage 1	5.0.0
TS	22.087	User-to-user signalling (UUS); Stage 1	5.0.0
TS	22.088	Call Barring (CB) supplementary services; Stage 1	5.0.0
TS	22.09	Unstructured Supplementary Service Data (USSD); Stage 1	5.0.0
TS	22.091	Explicit Call Transfer (ECT) supplementary service; Stage 1	5.0.0
TS	22.093	Completion of Calls to Busy Subscriber (CCBS); Service description, Stage 1	5.0.0
TS	22.094	Follow Me service description - Stage 1	5.0.0
TS	22.096	Name identification supplementary services; Stage 1	5.0.0
TS	22.097	Multiple Subscriber Profile (MSP) Phase 1; Service description - Stage 1	5.0.0
TS	22.101	Service aspects; Service principles	5.6.0
TS	22.105	Services & service capabilities	5.2.0
TS	22.112	USIM toolkit interpreter; Stage 1	5.0.0
TS	22.115	Service Aspects Charging and billing	5.2.0
TS	22.127	Service Requirement for the Open Services Access (OSA); Stage 1	5.4.0
TS	22.129	Handover requirements between UTRAN and GERAN or other radio systems	5.2.0
TS	22.135	Multicall; Service description; Stage 1	5.0.0
TS	22.14	Multimedia Messaging Service (MMS); Stage 1	5.2.0
TS	22.226	Global text telephony (GTT); Stage 1: Service description	5.2.0
TS	22.228	Service requirements for the Internet Protocol (IP) multimedia core network subsystem; Stage 1	5.6.0
TS	22.233	Transparent end-to-end packet-switched streamng service; Stage 1	5.0.0
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TS	23.003	Numbering, Addressing and Identification	5.3.0
TS	23.007	Restoration procedures	5.0.0
TS	23.008	Organisation of subscriber data	5.1.0
TS	23.009	Handover procedures	5.1.0

TS	23.011	Technical realization of Supplementary Services	5.0.0
TS	23.012	Location management procedures	5.0.0
TS	23.014	Support of Dual Tone Multi Frequency (DTMF) signalling	5.0.0
TS	23.015	Technical realisation of Operator Determined Barring (ODB)	5.0.0
TS	23.016	Subscriber data management; Stage 2	5.1.0
TS	23.018	Basic Call Handling; Technical realization	5.3.0
TS	23.034	High Speed Circuit Switched Data (HSCSD); Stage 2	5.0.0
TS	23.035	Immediate Service Termination (IST); Stage 2	5.0.0
TS	23.038	Alphabets and language-specific information	5.0.0
TS	23.04	Technical realization of Short Message Service (SMS)	5.4.0
TS	23.041	Technical realization of Cell Broadcast Service (CBS)	5.0.0
TS	23.042	Compression algorithm for SMS	5.0.0
TS	23.048	Security Mechanisms for the (U)SIM application toolkit; Stage 2	5.3.0
TS	23.053	Tandem Free Operation (TFO); Service description; Stage 2	5.0.0
TS	23.057	Mobile Execution Environment (MExE); Functional description; Stage 2	5.0.0
TS	23.06	General Packet Radio Service (GPRS) Service description; Stage 2	5.2.0
TS	23.066	Support of GSM Mobile Number Portability (MNP) stage 2	5.0.0
TS	23.067	Enhanced Multi-Level Precedence and Preemption Service (EMLPP); Stage 2	5.0.0
TS	23.072	Call Deflection Supplementary Service; Stage 2	5.0.0
TS	23.078	Customised Applications for Mobile network Enhanced Logic (CAMEL); Stage 2	5.0.0
TS	23.079	Support of Optimal Routeing (SOR); Technical realization; Stage 2	5.1.0
TS	23.081	Line Identification supplementary services; Stage 2	5.0.0
TS	23.082	Call Forwarding (CF) Supplementary Services; Stage 2	5.0.0
TS	23.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 2	5.0.0
TS	23.084	MultiParty (MPTY) Supplementary Service; Stage 2	5.0.0
TS	23.085	Closed User Group (CUG) Supplementary Service; Stage 2	5.0.0

TS	23.086	Advice of Charge (AoC) Supplementary Service; Stage 2	5.0.0
TS	23.087	User-to-User Signalling (UUS) supplementary service; Stage 2	5.0.0
TS	23.088	Call Barring (CB) Supplementary Service; Stage 2	5.0.0
TS	23.09	Unstructured Supplementary Service Data (USSD); Stage 2	5.0.0
TS	23.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 2	5.0.0
TS	23.093	Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2	5.0.0
TS	23.094	Follow Me Stage 2	5.0.1
TS	23.096	Name Identification Supplementary Service; Stage 2	5.0.0
TS	23.097	Multiple Subscriber Profile (MSP) Phase 1; Stage 2	5.0.0
TS	23.107	Quality of Service (QoS) concept and architecture	5.5.0
TS	23.108	Mobile radio interface layer 3 specification core network protocols; Stage 2 (structured procedures)	5.0.0
TS	23.116	Super-Charger technical realization; Stage 2	5.0.0
TS	23.119	Gateway Location Register (GLR); Stage2	5.0.0
TS	23.122	Non-Access-Stratum functions related to Mobile Station (MS) in idle mode	5.0.0
TS	23.127	Virtual Home Environment (VHE) / Open Service Access (OSA); Stage 2	5.2.0
TS	23.135	Multicall supplementary service; Stage 2	5.0.0
TS	23.14	Multimedia Messaging Service (MMS); Functional description; Stage 2	5.3.0
TS	23.146	Technical realisation of facsimile Group 3 service - non-transparent	5.0.0
TS	23.153	Out of Band Transcoder Control; Stage 2	5.1.0
TS	23.172	Technical realization of Circuit Switched (CS) multimedia service; UDI/RDI fallback and service modification; Stage 2	5.0.0
TS	23.174	Push service; stage 2	none
TS	23.205	Bearer-independent circuit-switched core network; Stage 2	5.2.0
TS	23.207	End to end quality of service (QoS) concept and architecture	5.4.0
TS	23.218	IP Multimedia (IM) session handling; IM call model; Stage 2	5.1.0
TS	23.221	Architectural requirements	5.5.0
TS	23.226	Global text telephony (GTT); Stage 2: Architecture	5.2.0

TS	23.227	Application and user interaction in the UE; Principles and specific requirements	5.1.0
TS	23.228	IP Multimedia Subsystem (IMS); Stage 2	5.5.0
TS	23.236	Intra-domain connection of Radio Access Network (RAN) nodes to multiple Core Network (CN) nodes	5.2.0
TS	23.24	3GPP generic user profile requirements; Stage 2; Architecture	none
TS	23.271	Functional stage 2 description of location services (LCS)	5.3.0
TS	23.278	Customised Applications for Mobile network Enhanced Logic (CAMEL) - IP Multimedia System (IMS) interworking; Stage 2	2.0.0
TS	24.002	GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration	5.0.0
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TS	24.008	Mobile radio interface Layer 3 specification; Core network protocols; Stage 3	5.4.0
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TS	24.011	Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface	5.0.0
TS	24.022	Radio Link Protocol (RLP) for circuit switched bearer and teleservices	5.0.0
TS	24.03	Location Services (LCS); Supplementary service operations; Stage 3	5.1.0
TS	24.067	Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3	5.0.0
TS	24.072	Call Deflection Supplementary Service; Stage 3	5.0.0
TS	24.08	Mobile radio Layer 3 supplementary service specification; Formats and coding	5.1.0
TS	24.081	Line Identification Supplementary Service; Stage 3	5.0.0
TS	24.082	Call Forwarding supplementary service; Stage 3	5.0.0
TS	24.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3	5.0.0
TS	24.084	MultiParty (MPTY) Supplementary Service; Stage 3	5.0.0
TS	24.085	Closed User Group (CUG) Supplementary Service; Stage 3	5.0.0
TS	24.086	Advice of Charge (AoC) Supplementary Service; Stage 3	5.0.0
TS	24.087	User-to-User Signalling (UUS); Stage 3	5.0.0
TS	24.088	Call Barring (CB) Supplementary Service; Stage 3	5.0.1
TS	24.09	Unstructured Supplementary Service Data (USSD); Stage 3	5.0.0
TS	24.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 3	5.0.0

TS	24.093	Call Completion to Busy Subscriber (CCBS); Stage 3	5.0.0
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TS	24.135	Multicall supplementary service; Stage 3	5.0.0
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TS	24.229	IP Multimedia Call Control Protocol based on SIP and SDP; Stage 3	5.1.0
TS	25.101	UE Radio transmission and reception (FDD)	5.3.0
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TS	25.113	Base station and repeater electromagnetic compatibility (EMC)	5.1.0
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TS	25.212	Multiplexing and channel coding (FDD)	5.1.0
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TS	25.214	Physical layer procedures (FDD)	5.1.0
TS	25.215	Physical layer; Measurements (FDD)	5.0.0
TS	25.221	Physical channels and mapping of transport channels onto physical channels (TDD)	5.1.0
TS	25.222	Multiplexing and channel coding (TDD)	5.1.0
TS	25.223	Spreading and modulation (TDD)	5.1.0
TS	25.224	Physical layer procedures (TDD)	5.1.0

TS	25.225	Physical layer; Measurements (TDD)	5.1.0
TS	25.301	Radio Interface Protocol Architecture	5.1.0
TS	25.302	Services provided by the physical layer	5.1.0
TS	25.303	Interlayer procedures in Connected Mode	5.1.0
TS	25.304	UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode	5.1.0
TS	25.305	User Equipment (UE) positioning in Universal Terrestrial Radio Access Network (UTRAN); Stage 2	5.4.0
TS	25.306	UE Radio Access capabilities definition	5.1.0
TS	25.307	Requirements on UEs supporting a release-independent frequency band	5.0.0
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TS	25.321	Medium Access Control (MAC) protocol specification	5.1.0
TS	25.322	Radio Link Control (RLC) protocol specification	5.1.0
TS	25.323	Packet Data Convergence Protocol (PDCP) specification	5.1.0
TS	25.324	Broadcast/Multicast Control (BMC)	5.1.0
TS	25.331	Radio Resource Control (RRC) protocol specification	5.1.0
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TS	25.41	UTRAN Iu Interface: General Aspects and Principles	5.1.0
TS	25.411	UTRAN Iu interface layer 1	5.0.0
TS	25.411	UTRAN Iu interface layer 1	5.0.0
TS	25.412	UTRAN Iu interface signalling transport	5.0.0
TS	25.413	UTRAN Iu interface RANAP signalling	5.1.0
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TS	25.419	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	5.1.0
TS	25.42	UTRAN Iur Interface: General Aspects and Principles	5.0.0
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TS	25.422	UTRAN Iur interface signalling transport	5.0.0
TS	25.423	UTRAN Iur interface RNSAP signalling	5.1.0
TS	25.424	UTRAN Iur interface data transport & transport signalling for CCH data streams	5.1.0
TS	25.425	UTRAN Iur interface user plane protocols for CCH data streams	5.1.0
TS	25.426	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	5.1.0
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TS	49.031	Location Services (LCS); Base Station System Application Part LCS Extension (BSSAP-LE)	5.2.0
TS	51.013	Test specification for SIM API for Java card	none
TS	52.402	Telecommunication management; Performance Management (PM); Performance measurements - GSM	none
TR	21.801	Specification drafting rules	5.0.0
TR	21.877	Radio optimization impacts on the Packet Switched (PS) domain architecture	0.2.0
TR	21.9	Technical Specification Group working methods	5.0.0
TR	21.905	Vocabulary for 3GPP Specifications	5.4.0
TR	22.121	Service aspects; The Virtual Home Environment; Stage 1	5.3.1
TR	22.928	IP-based multimedia services examples	none
TR	22.941	IP based multimedia framework; Stage 0	0.7.0
TR	22.944	Service requirements for UE functionality split	5.1.0
TR	22.976	Study on PS domain services and capabilities	2.0.0
TR	23.039	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	5.0.0
TR	23.815	Charging implications of IMS architecture	5.0.0
TR	23.871	Enhanced support for user privacy in Location Services (LCS)	5.0.0
TR	23.875	Support of Push service	5.1.0

TR	23.91	Circuit switched data bearer services	5.0.0
TR	23.955	Virtual Home Environment (VHE) concepts	0.1.0
TR	25.854	Uplink Synchronous Transmission Scheme (USTS)	5.0.0
TR	25.856	High Speed Downlink Packet Access (HSDPA); Layer 2 and 3 aspects	none
TR	25.857	UE positioning enhancements	none
TR	25.858	Physical layer aspects of UTRA High Speed Downlink Packet Access	5.0.0
TR	25.859	User Equipment (UE) positioning enhancements for 1,28 Mcps TDD	5.0.0
TR	25.86	Radio acces bearer support enhancements	5.0.0
TR	25.867	Feasibility study for wideband distribution systems in 3rd generation networks	1.0.0
TR	25.868	Node B synchronization for 1,28 Mcps TDD	5.0.1
TR	25.869	Transmitter diversity solutions for multiple antennas	1.0.2
TR	25.87	Enhancement on the DSCH Hard Split mode	5.0.0
TR	25.875	NAS node selector function	5.0.0
TR	25.876	Multiple-Input Multiple-Output Antenna Processing for HSDPA	1.0.0
TR	25.877	High Speed Downlink Packet Access (HSDPA) - Iub/Iur Protocol Aspects	5.1.0
TR	25.878	RL timing adjustment	5.1.0
TR	25.879	Separation of resource reservation and radio link activation	5.0.0
TR	25.881	Improvement of Radio Resource Management (RRM) across RNS and RNS/BSS	5.0.0
TR	25.882	1,28 Mcps TDD option base station classification	5.0.0
TR	25.883	Direct Transport Bearers Between SRNC and Node-B	5.0.0
TR	25.884	Iur Neighbouring cell reporting efficiency optimisation	5.0.0
TR	25.885	UMTS 1800 / 1900 MHz work items report	1.0.0
TR	25.886	Ssmall technical enhancements and improvements work item	none
TR	25.888	Improvement of inter frequency and inter system measurement for 1,28 Mcps TDD	none
TR	25.89	High Speed Downlink Packet Access (HSDPA); User Equipment (UE) radio transmission and reception (FDD)	1.0.0
TR	25.921	Guidelines and principles for protocol description and error handling	5.0.0

TR	25.922	Radio Resource Management Strategies	5.0.0
TR	25.931	UTRAN Functions, examples on signalling procedures	5.1.0
TR	25.933	IP transport in UTRAN	5.1.0
TR	25.942	RF system scenarios	5.1.0
TR	25.943	Deployment aspects	5.1.0
TR	25.945	RF requirements for low chip rate TDD option	5.0.0
TR	25.951	Base Station classification (FDD)	1.1.0
TR	25.952	Base Station classification (TDD)	5.1.0
TR	25.956	UTRA repeater: Planning guidelines and system analysis	5.0.0
TR	25.991	Feasibility study on the mitigation of the effect of common pilot channel (CPICH) interference at the user equipment	5.0.0
TR	26.911	Codec for Circuit switched Multimedia Telephony Service;Terminal Implementor's Guide	5.0.0
TR	26.937	Transparent end-to-end packet switched streaming service (PSS); RTP usage model	0.1.0
TR	26.975	Performance characterization of the Adaptive Multi-Rate (AMR) speech codec	5.0.0
TR	26.976	Results of the AMR wideband (AMR-W) selection phase	0.6.0
TR	27.901	Report on Terminal Interfaces - An Overview	5.0.0
TR	29.903	Feasibility study on SS7 signalling transportation in the core network with SCCP-User Adaptation (SUA)	5.0.0
TR	29.993	Modifications to be incorporated in equipment to cater for errors in the standards	none
TR	29.994	Recommended infrastructure measures to overcome specific Mobile Station (MS) and User Equipment (UE) faults	5.0.0
TR	29.998-01	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 1: General Issues on API Mapping	5.0.0
TR	29.998-04-	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	5.0.0
TR	29.998-04-	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	5.0.0
TR	29.998-05-	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 1: API to	5.0.0

		CAP Mapping	
TR	29.998-05-	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 2: INAP mapping	none
TR	29.998-05-	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 3: MEGACO mapping	none
TR	29.998-05-	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	5.0.0
TR	29.998-06	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 6: User Location and User Status Service Mapping to MAP	5.0.0
TR	29.998-08	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 8: Data Session Control Service Mapping to CAP	5.0.0
TR	31.9	SIM/USIM internal and external interworking aspects	5.1.0
TR	32.8	Management level procedures and interaction with UTRAN	5.0.0
TR	32.802	Telecommunication management; User Equipment (UE) management feasibility study	5.0.0
TR	33.9	Guide to 3G security	0.4.1
TR	33.903	Access Security for IP based services	none
TR	34.926	Table of international EMC requirements	5.0.0
TR	35.909	3G Security; Specification of the MILENAGE algorithm set: an example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 5: Summary and results of design and evaluation	5.0.0
TR	41.031	Fraud Information Gathering System (FIGS); Service requirements; Stage 0	5.0.0
TR	41.033	Lawful Interception requirements for GSM	5.0.0
TR	43.005	Technical performance objectives	5.0.0
TR	43.058	Characterisation, test methods and quality assessment for handsfree Mobile Stations (MSs)	5.0.0
TR	43.9	Support for voice optimization for the IMS in the GERAN	none
TR	43.93	Iur-g interface; Stage 2	0.4.0
TR	44.901	External network assisted cell change (NACC)	5.1.0

TR	46.008	Half Rate Speech; Performance Characterization of the GSM Half Rate speech codec	5.0.0
TR	46.055	Performance characterisation of the GSM EFR Speech Codec	5.0.0
TR	46.085	Subjective tests on the interoperability of the HR/FR/EFR speech codecs; single, tandem and tandem free operation	5.0.0
TR	49.001	General network interworking scenarios	5.0.0
TR	50.099	GERAN project plan and open issues	0.1.6

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Other provisions of principal Determination intact

4.   Save for the variations expressly provided in this Determination, all other provisions as contained in the principal Determination shall remain unchanged and continue to be in full force and effect.

Made : **24 June 2004**

DATO' V DANAPALAN
Chairman
Malaysian Communications and Multimedia Commission