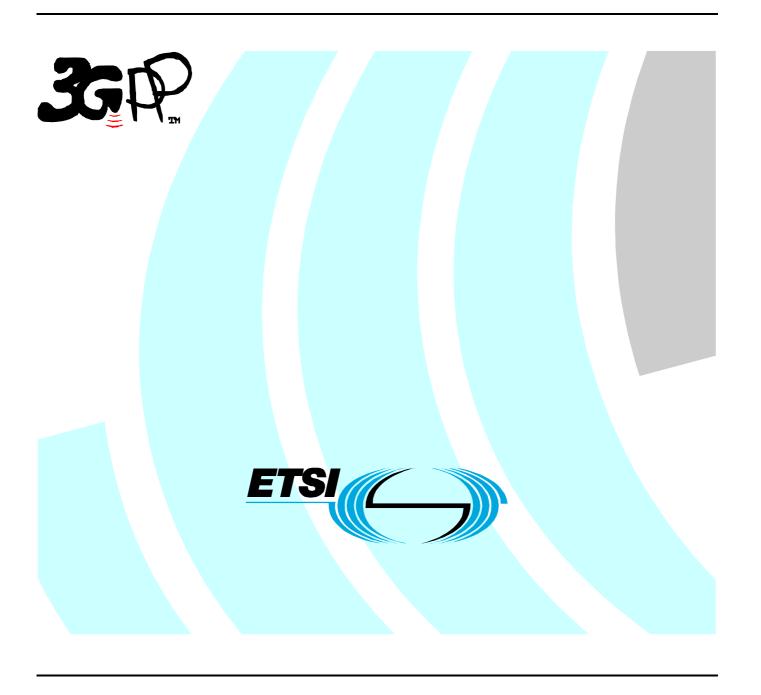
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Technical Specification

Universal Mobile Telecommunications System (UMTS); Technical Specifications and Technical Reports for a UTRAN-based 3GPP system (3GPP TS 21.101 version 4.13.0 Release 4)



Reference RTS/TSGS-0021101v4d0 Keywords UMTS

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Foreword

This Technical Specification (TS) has been produced by ETSI 3rd Generation Partnership Project (3GPP).

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under http://webapp.etsi.org/key/queryform.asp.

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Foreword

This Technical Specification (TS) has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

1 Scope

The present document identifies the 3rd generation mobile system specifications for Release 4. The specifications and reports of 3G Release 4 have a major version number 4 (e.g. 4.x.y).

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

- NOTE 1: Functionally frozen means that no further functionality/features may be incorporated into the set of specifications, and that only corrective Change Requests (CRs) are to be accepted and agreed.
- NOTE 2: It can be expected that corrective CRs will be introduced into the Release 4 version 4.x.y specifications throughout 2001 and beyond.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.
- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TR 21.900: "Technical Specification Group working methods".
- [3] 3GPP TS 21.101: "3rd Generation mobile system Release 1999 Specifications".

3 Abbreviations

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

4 General

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

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

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

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

5 Specifications and Reports of 3G Release 4

NOTE 1: The final column of the table below indicates whether or not the documents are intended for adoption by the partner Standards Development Organizations as their own publications. Those marked "no" are internal working documents of the 3GPP TSGs.

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

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

Туре	Number	Title	WG prime	For publication?
TS	21.101	Technical Specifications and Technical Reports for a UTRAN-based 3GPP system	SP	Yes
TS	21.111	USIM and IC card requirements	C6	Yes
TS	21.133	3G security; Security threats and requirements	S3	Yes
TR	21.801	Specification drafting rules	SP	No
TR	21.900	Technical Specification Group working methods	SP	Yes
TR	21.905	Vocabulary for 3GPP Specifications	S1	Yes
TS	22.001	Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN)	S1	Yes
TS	22.002	Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN)	S1	Yes
TS	22.003	Circuit Teleservices supported by a Public Land Mobile Network (PLMN)	S1	Yes
TS	22.004	General on supplementary services	S1	Yes
TS	22.011	Service accessibility	S1	Yes
TS	22.016	International Mobile Equipment Identities (IMEI)	S1	Yes
TS	22.022	Personalisation of Mobile Equipment (ME); Mobile functionality specification	S3	Yes
TS	22.024	Description of Charge Advice Information (CAI)	S1	Yes
TS	22.030	Man-Machine Interface (MMI) of the User Equipment (UE)	S1	Yes
TS	22.031	Fraud Information Gathering System (FIGS); Service description; Stage 1	S3	Yes
TS	22.032	Immediate Service Termination (IST); Service description; Stage 1	S3	Yes
TS	22.034	High Speed Circuit Switched Data (HSCSD); Stage 1	S1	Yes
TS	22.038	USIM Application Toolkit (USAT/SAT); Service description; Stage 1	S1	Yes
TS	22.041	Operator Determined Call Barring	S1	Yes
TS	22.042	Network Identity and Time Zone (NITZ) service description; Stage 1	S1	Yes
TS	22.048	Security mechanisms for the (U)SIM application toolkit; Stage 1	C6	Yes
TS	22.053	Tandem Free Operation (TFO); Service description; Stage 1	S4	Yes
TS	22.057	Mobile Execution Environment (MExE) service description; Stage 1	S1	Yes
TS	22.060	General Packet Radio Service (GPRS); Service description; Stage 1	S1	Yes
TS	22.066	Support of Mobile Number Portability (MNP); Stage 1	S1	Yes
TS	22.067	enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 1	S1	Yes
TS	22.071	Location Services (LCS); Service description; Stage 1	S1	Yes
TS	22.072	Call Deflection (CD); Stage 1	S1	Yes
TS	22.076	Noise suppression for the AMR codec; Service description; Stage 1	S4	Yes
TS	22.078	Customized Applications for Mobile network Enhanced Logic (CAMEL); Service description; Stage 1	S1	Yes
TS	22.079	Support of optimal routeing; Stage 1	S1	Yes
TS	22.081	Line Identification supplementary services; Stage 1	S1	Yes
TS	22.082	Call Forwarding (CF) Supplementary Services; Stage 1	S1	Yes
TS	22.083	Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 1	S1	Yes
TS	22.084	MultiParty (MPTY) supplementary service; Stage 1	S1	Yes
TS	22.085	Closed User Group (CUG) supplementary services; Stage 1	S1	Yes

Туре	Number	Title	WG prime	For publication?
TS	22.086	Advice of Charge (AoC) supplementary services; Stage 1	S1	Yes
TS	22.087	User-to-user signalling (UUS); Stage 1	S1	Yes
TS	22.088	Call Barring (CB) supplementary services; Stage 1	S1	Yes
TS	22.090	Unstructured Supplementary Service Data (USSD); Stage 1	S1	Yes
TS	22.091	Explicit Call Transfer (ECT) supplementary service; Stage 1	S1	Yes
TS	22.093	Completion of Calls to Busy Subscriber (CCBS); Service description, Stage 1	S1	Yes
TS	22.094	Follow Me service description - Stage 1	S1	Yes
TS	22.096	Name identification supplementary services; Stage 1	S1	Yes
TS	22.097	Multiple Subscriber Profile (MSP) Phase 2; Service description; Stage 1	S1	Yes
TS	22.101	Service aspects; Service principles	S1	Yes
TS	22.105	Services and service capabilities	S1	Yes
TS	22.115	Service aspects; Charging and billing	S1	Yes
TR	22.121	Service aspects; The Virtual Home Environment (VHE); Stage 1	S1	Yes
TS	22.127	Service requirement for the Open Services Access (OSA); Stage 1	S1	Yes
TS	22.129	Handover requirements between UTRAN and GERAN or other radio systems	S1	Yes
TS	22.135	Multicall; Service description; Stage 1	S1	Yes
TS	22.140	Multimedia Messaging Service (MMS); Stage 1	S1	Yes
TS	23.002	Network architecture	S2	Yes
TS	23.003	Numbering, addressing and identification	C4	Yes
TS	23.007	Restoration procedures	C4	Yes
TS	23.008	Organization of subscriber data	C4	Yes
TS	23.009	Handover procedures	C1	Yes
TS	23.011	Technical realization of Supplementary Services	C4	Yes
TS	23.012	Location management procedures	C4	Yes
TS	23.012	Support of Dual Tone Multi Frequency (DTMF) signalling	C1	Yes
TS	23.015	Technical realization of Operator Determined Barring (ODB)	C4	Yes
TS	23.016	Subscriber data management; Stage 2	C4	Yes
TS	23.018	Basic Call Handling; Technical realization	C4	Yes
TS	23.031	Fraud Information Gathering System (FIGS); Service description; Stage 2	S3	Yes
-	23.031		S2	
TS		Universal Geographical Area Description (GAD)	C1	Yes Yes
TS	23.034	High Speed Circuit Switched Data (HSCSD); Stage 2	1	
TS	23.035	Immediate Service Termination (IST); Stage 2	S3	Yes
TS	23.038	Alphabets and language-specific information	C1	Yes
TR	23.039	Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs)	C1	Yes
TS	23.040	Technical realization of Short Message Service (SMS)	C1	Yes
TS	23.041	Technical realization of Cell Broadcast Service (CBS)	C1	Yes
TS	23.042	Compression algorithm for SMS	C1	Yes
TS	23.048	Security mechanisms for the (U)SIM application toolkit; Stage 2	C6	Yes
TS	23.053	Tandem Free Operation (TFO); Service description; Stage 2	S4	Yes
TS	23.057	Mobile Execution Environment (MExE); Functional description; Stage 2	S2	Yes
TS	23.060	General Packet Radio Service (GPRS); Service description; Stage 2	S2	Yes
TS	23.066	Support of GSM Mobile Number Portability (MNP) stage 2	C4	Yes
TS	23.067	Enhanced Multi-Level Precedence and Pre-emption Service (eMLPP); Stage 2	C4	Yes
TS	23.072	Call Deflection Supplementary Service; Stage 2	C4	Yes
TS	23.078	Customized Applications for Mobile network Enhanced Logic (CAMEL) Phase X; Stage 2	C4	Yes
TS	23.079	Support of Optimal Routeing (SOR); Technical realization; Stage 2	C4	Yes
TS	23.081	Line Identification supplementary services; Stage 2	C4	Yes
TS	23.082	Call Forwarding (CF) Supplementary Services; Stage 2	C4	Yes
TS	23.083	Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 2	C4	Yes
TS	23.084	MultiParty (MPTY) Supplementary Service; Stage 2	C4	Yes
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TS 23.085 Closed User Group (CUG) Supplementary Service; Stage 2 C4 Yes TS 23.086 Advice of Charge (AoC) Supplementary Service; Stage 2 C4 Yes TS 23.087 User-to-User Signalling (UUS) supplementary service; Stage 2 C4 Yes TS 23.080 Call Barring (CB) Supplementary Service; Stage 2 C4 Yes TS 23.091 Unstructured Supplementary Service; Stage 2 C4 Yes TS 23.093 Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2 C4 Yes TS 23.094 Follow Me Stage 2 C4 Yes TS 23.095 Name identification supplementary service; Stage 2 C4 Yes TS 23.097 Multiple Subscriber Profile (MSP) Phase 1; Stage 2 C4 Yes TS 23.101 General UMTS Architecture S2 Yes TS 23.107 Quality of Service (QoS) concept and architecture S2 Yes TS 23.108 Service (AoCass) Service (AoCass) Yes T	Туре	Number	Title	WG prime	For publication?
15	TS	23.085	Closed User Group (CUG) Supplementary Service; Stage 2	C4	Yes
TS 23.088 Call Barring (CB) Supplementary Service; Stage 2 C4 Yes	TS	23.086	Advice of Charge (AoC) Supplementary Service; Stage 2	C4	Yes
TS 23.090 Unstructured Supplementary Service Data (USSD); Stage 2 C4 Yes TS 23.093 Explicit Call Transfer (ECT) Supplementary Service, Stage 2 C4 Yes Yes 23.094 Follow Me Stage 2 C4 Yes Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2 C4 Yes Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2 C4 Yes TS 23.094 Follow Me Stage 2 C4 Yes TS 23.095 Nutliple Subscriber Profile (MSP) Phase 1; Stage 2 C4 Yes TS 23.101 General UMTS Architecture S2 Yes TS 23.101 UMTS Access Stratum Services and Functions S2 Yes TS 23.101 UMTS Access Stratum Services and Functions S2 Yes TS 23.115 Mobile radio interface layer 3 specification core network protocols; Stage 2 C1 Yes TS 23.115 UMTS Access Stratum Services and Functions S2 Yes TS 23.116 Super-Charger technical realization; Stage 2 C4 Yes TS 23.112 Unitual Home Environment (VHE) / Open Service Access (OSA) S2 Yes TS 23.127 Virtual Home Environment (VHE) / Open Service Access (OSA) S2 Yes TS 23.127 Virtual Home Environment (VHE) / Open Service Access (OSA) S2 Yes TS 23.146 Multimedia Messaging Service (MMS); Functional description; Stage 2 C4 Yes Technical realization of facsimile Group 3 service -non-transparent C3 Yes TS 23.215 Salada Salad	TS	23.087	User-to-User Signalling (UUS) supplementary service; Stage 2	C4	Yes
15	TS	23.088	Call Barring (CB) Supplementary Service; Stage 2	C4	Yes
Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2 C4	TS	23.090	Unstructured Supplementary Service Data (USSD); Stage 2	C4	Yes
TS 23.094 Follow Me Stage 2	TS	23.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 2	C4	Yes
TS 23.096 Name identification supplementary service; Stage 2 C4 Yes TS 23.097 Multiple Subscriber Profile (MSP) Phase 1; Stage 2 C4 Yes TS 23.107 Quality of Service (QoS) concept and architecture S2 Yes TS 23.108 Mobile radio interface layer 3 specification core network protocols; Stage 2 (cf. Structured procedures) C1 Yes TS 23.108 Mobile radio interface layer 3 specification core network protocols; Stage 2 (cf. Yes) C4 Yes TS 23.110 UMTS Access Stratum Services and Functions S2 Yes TS 23.110 Super-Charger technical realization; Stage 2 (cf. Yes) C4 Yes TS 23.112 Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode (cf. Yes) C1 Yes TS 23.127 Virtual Home Environment (VHE) Open Service Access (OSA) S2 Yes TS 23.127 Virtual Home Environment (VHE) Open Service Access (OSA) S2 Yes TS 23.127 Nultical supplementary service; Stage 2 C4 Yes TS	TS	23.093	Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2	C4	Yes
TS 23.097 Multiple Subscriber Profile (MSP) Phase 1; Stage 2 C4 Yes TS 23.101 General UMTS Architecture S2 Yes TS 23.102 Quality of Service (OoS) concept and architecture S2 Yes TS 23.108 Mobile radio interface layer 3 specification core network protocols; Stage 2 (Structured procedures) C1 Yes TS 23.110 UMTS Access Stratum Services and Functions S2 Yes TS 23.110 Super-Charger technical realization; Stage 2 C4 Yes TS 23.119 Gateway Location Register (GLR); Stage2 C4 Yes TS 23.127 Virtual Home Environment (VHE) / Open Service Access (OSA) S2 Yes TS 23.127 Virtual Home Environment (VHE) / Open Service Access (OSA) S2 Yes TS 23.135 Multical supplementary service, Stage 2 C4 Yes TS 23.146 Technical realization of facsimile Group 3 service - non-transparent C3 Yes TS 23.153 Out of band transcoder control; Stage 2 C4	TS	23.094	Follow Me Stage 2	C4	Yes
TS 23.101 General UMTS Architecture S2 Yes S2.107 Quality of Service (QoS) concept and architecture S2 Yes S2.108 Mobile radio interface layer 3 specification core network protocols; Stage 2 C1 Yes (structured procedures) S2.108 Mobile radio interface layer 3 specification core network protocols; Stage 2 C1 Yes S2.110 UMTS Access Stratum Services and Functions S2 Yes S2.111 Gateway Location Register (GLR); Stage 2 C4 Yes S2.1119 Gateway Location Register (GLR); Stage 2 C4 Yes S2.1129 Gateway Location Register (GLR); Stage 2 C4 Yes S2.1129 Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode C1 Yes S2.1120 Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode C1 Yes S2.1121 Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode C1 Yes S2.1121 Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode C1 Yes S2.1121 Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode C1 Yes S2.1121 Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode C1 Yes S2.1121 Non-Access-Stratum (NAS) functional description; Stage 2 CP Yes S2.1121 Non-Access-Stratum (NAS) functional description; Stage 2 CP Yes S2.1121 Non-Access-Stratum (NAS) functional description; Stage 2 CP Yes S2.1121 Out of band transcoder control; Stage 2 CP Yes S2.1121 Non-Access-independent circuit-switched core network; Stage 2 CA Yes S2.1122 Non-Access-independent circuit-switched core network; Stage 2 CA Yes S2.1122 Non-Access-independent circuit-switched core network; Stage 2 CA Yes S2.1122 Functional stage 2 description of Location Services (LCS) S2 Yes S2.1122 Functional stage 2 description of Location Services (LCS) S2 Yes S2.1122 Functional stage 2 description of Location Services (LCS) S2 Yes S2.1122 Functional stage 2 description of Location Services (LCS) S2 Yes S2.1122 Functional report on the Gateway Location Register CA Yes S2.1122 Functional stage 2 CP Yes S2.1122 Functional stage 2 CP Yes S2.1122 Functiona	TS	23.096	Name identification supplementary service; Stage 2	C4	Yes
TS 23.107 Quality of Service (QoS) concept and architecture 23.108 Mobile radio interface layer 3 specification core network protocols; Stage 2 C1 Yes (Structured procedures) 23.110 UMTS Access Stratum Services and Functions 23.1110 Super-Charger technical realization; Stage 2 C4 Yes 23.112 Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode C1 Yes 23.122 Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode C1 Yes 23.127 Virtual Home Environment (VHE) / Open Service Access (OSA) 23.128 Multicall supplementary service; Stage 2 C4 Yes 23.135 Multicall supplementary service; Stage 2 C4 Yes 23.140 Multimedia Messaging Service (MMS); Functional description; Stage 2 CP Yes 23.141 Technical realization of facsimile Group 3 service - non-transparent 23.153 Out of band transcoder control; Stage 2 C4 Yes 23.153 Out of band transcoder control; Stage 2 C4 Yes 23.221 Architectural requirements 23.222 Application and user interaction in the UE; Principles and specific requirements 24.222 Yes 25.2227 Application and user interaction in the UE; Principles and specific requirements 25.2 Yes 26.227 Functional stage 2 description of Location Services (LCS) 26.2283 Technical report on Pre-Paging 27.229 Technical report on Pre-Paging 28.2309 Technical report on Pre-Paging 29.390 Technical report on Super-Charger 29.391 Technical report on Super-Charger 29.392 Technical report on Super-Charger 29.492 Sayes 29.503 Sayes 29.504 Yes 29.504 Yes 29.505 Yes 29.506 Yes 29.507 Yes 29.607 Yes 20.607 Yes 20.607 Yes 20.607 Yes 20.607 Yes 20.60	TS	23.097	Multiple Subscriber Profile (MSP) Phase 1; Stage 2	C4	Yes
TS	TS	23.101	General UMTS Architecture	S2	Yes
(structured procedures)	TS	23.107	Quality of Service (QoS) concept and architecture	S2	Yes
TS 23.116 Super-Charger technical realization; Stage 2 C4 Yes TS 23.119 Gateway Location Register (GLR); Stage2 C4 Yes TS 23.127 Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode (1 Yes TS 23.127 Virtual Home Environment (VHE) / Open Service Access (OSA) S2 Yes TS 23.135 Multicall supplementary service; Stage 2 C4 Yes TS 23.140 Multimedia Messaging Service (MMS); Functional description; Stage 2 CP Yes TS 23.140 Multimedia Messaging Service (MMS); Functional description; Stage 2 CP Yes TS 23.140 Multimedia Messaging Service (MMS); Functional description; Stage 2 C4 Yes TS 23.153 Out of band transcoder control; Stage 2 C4 Yes TS 23.205 Bearer-independent circuit-switched core network; Stage 2 C4 Yes TS 23.227 Application and user interaction in the UE; Principles and specific requirements S2 Yes TS 23.271 Functional stage 2	TS	23.108		C1	Yes
TS 23.119 Gateway Location Register (GLR); Stage2 C4 Yes TS 23.122 Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode C1 Yes TS 23.127 Virtual Home Environment (VHE) / Open Service Access (OSA) S2 Yes TS 23.135 Multicall supplementary service; Stage 2 C4 Yes TS 23.140 Multimedia Messaging Service (MMS); Functional description; Stage 2 CP Yes TS 23.148 Technical realization of facsimile Group 3 service - non-transparent C3 Yes TS 23.148 Technical realization of facsimile Group 3 service - non-transparent C3 Yes TS 23.153 Out of band transcoder control; Stage 2 C4 Yes TS 23.255 Bearer-independent circuit-switched core network; Stage 2 C4 Yes TS 23.2271 Architectural requirements S2 Yes TS 23.2271 Functional stage 2 description of Location Services (LCS) S2 Yes TR 23.2371 Functional stage 2 description of Location Services (L	TS	23.110	UMTS Access Stratum Services and Functions	S2	Yes
TS 23.122 Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode C1 Yes 23.127 Virtual Home Environment (VHE) / Open Service Access (OSA) S2 Yes 23.135 Multicall supplementary service; Stage 2 C4 Yes 23.135 Multicall supplementary service; Stage 2 CP Yes 23.136 Multicall supplementary service (SMS); Functional description; Stage 2 CP Yes 23.140 Multimedia Messaging Service (MMS); Functional description; Stage 2 CP Yes 23.140 Technical realization of facsimile Group 3 service - non-transparent C3 Yes 23.140 Technical realization of facsimile Group 3 service - non-transparent C3 Yes 23.153 Out of band transcoder control; Stage 2 C4 Yes 23.205 Bearer-independent circuit-switched core network; Stage 2 C4 Yes 23.227 Architectural requirements S2 Yes 23.227 Application and user interaction in the UE; Principles and specific requirements S2 Yes 23.271 Functional stage 2 description of Location Services (LCS) S2 Yes 23.271 Functional stage 2 description of Location Services (LCS) S2 Yes 23.271 Functional stage 2 description of Location Services (LCS) S2 Yes 23.930 Technical report on Pre-Paging C4 Yes 23.990 Technical report on Pre-Paging C4 Yes 23.990 Technical report on the Gateway Location Register C4 Yes 23.910 Circuit switched data bearer services C3 Yes 23.911 Technical report on Out-of-band transcoder control C4 Yes 23.912 Technical report on Super-Charger C4 Yes 23.913 Iu principles S2 Yes 24.002 GSM-UMTS Public Land Mobile Network (PLMN) Access Reference C1 Yes 24.003 Mobile radio interface Layer 3 specification; Core network protocols; Stage 3 C1 Yes 24.001 Mobile Radio Interface Layer 3 specification; Core network protocols; Stage 3 C1 Yes 24.001 Mobile Radio Interface Layer 3 Sepcification; Core network protocols; Stage 3 C1 Yes 24.001 Mobile Radio Interface Layer 3 Sepcification; Core network protocols; Stage 3 C4 Yes 24.001 Deliction Supplementary Service; Stage 3 C4 Yes 24.002 Call Poliction Supplementary Service stage 3 C4 Yes 24.003 Call Call Indication Supplementary Service; St	TS	23.116	Super-Charger technical realization; Stage 2	C4	Yes
TS 23.127 Virtual Home Environment (VHE) / Open Service Access (OSA)	TS	23.119	Gateway Location Register (GLR); Stage2	C4	Yes
TS 23.135 Multicall supplementary service; Stage 2 C4 Yes TS 23.140 Multimedia Messaging Service (MMS); Functional description; Stage 2 CP Yes TS 23.145 Technical realization of facsimile Group 3 service - non-transparent C3 Yes TS 23.153 Out of band transcoder control; Stage 2 C4 Yes TS 23.205 Bearer-independent circuit-switched core network; Stage 2 C4 Yes TS 23.221 Architectural requirements S2 Yes TS 23.227 Application and user interaction in the UE; Principles and specific requirements S2 Yes TS 23.271 Functional stage 2 description of Location Services (LCS) TS 23.273 Feasibility study for transport and control separation in the PS CN domain S2 No TR 23.908 Technical report on Pre-Paging C4 Yes TR 23.909 Technical report on Pre-Paging C4 Yes TR 23.910 Circuit switched data bearer services C3 Yes TR 23.931 Technical report on Out-of-band transcoder control C4 Yes TR 23.930 Iu principles C4 Yes TR 23.930 Iu principles C4 Yes TS 24.002 GSM-UMTS Public Land Mobile Network (PLMN) Access Reference C51 Yes C75 24.008 Mobile radio interface signalling layer 3; General Aspects C52 Yes TS 24.011 Mobile Radio Interface Layer 3 specification; Core network protocols; Stage 3 C1 Yes TS 24.011 Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface TS 24.022 Radio Link Protocol (RLP) for circuit switched bearer and teleservices C3 Yes TS 24.030 Location Services (LCS); Supplementary Services specification; C4 Yes TS 24.040 Mobile Radio Interface Layer 3 - Supplementary Service (SMS) support on mobile radio interface TS 24.030 Location Services (LCS); Supplementary Service (PMLPP); Stage 3 C4 Yes TS 24.067 Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3 C4 Yes TS 24.080 Mobile radio Layer 3 supplementary Service; Stage 3 C4 Yes TS 24.081 Line Identification Supplementary Service; Stage 3 C4 Yes TS 24.081 Line Identification Supplementary Service; Stage 3 C4 Yes TS 24.083 Call Powerding supplementary Service; Stage 3 C4 Ye	TS	23.122	Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode	C1	Yes
TS 23.140 Multimedia Messaging Service (MMS); Functional description; Stage 2 CP Yes TS 23.146 Technical realization of facsimile Group 3 service - non-transparent C3 Yes TS 23.153 Out of band transcoder control; Stage 2 C4 Yes TS 23.253 Bearer-independent circuit-switched core network; Stage 2 C4 Yes TS 23.221 Architectural requirements S2 Yes TS 23.227 Application and user interaction in the UE; Principles and specific requirements S2 Yes TS 23.271 Functional stage 2 description of Location Services (LCS) S2 Yes TS 23.873 Feasibility study for transport and control separation in the PS CN domain S2 No TR 23.908 Technical report on Pre-Paging C4 Yes TR 23.909 Technical report on the Gateway Location Register C4 Yes TR 23.910 Circuit switched data bearer services C3 Yes TR 23.911 Technical report on Out-of-band transcoder control C4 Yes TR 23.912 Technical report on Super-Charger C4 Yes TR 23.930 Iu principles S2 Yes TS 24.002 GSM-UMTS Public Land Mobile Network (PLMN) Access Reference C51 Yes TS 24.003 Mobile radio interface signalling layer 3; General Aspects C1 Yes TS 24.001 Mobile radio interface Layer 3 specification; Core network protocols; Stage 3 C1 Yes TS 24.011 Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface TS 24.022 Radio Link Protocol (RLP) for circuit switched bearer and teleservices TS 24.030 Location Services (LCS); Supplementary Service operations; Stage 3 C4 Yes TS 24.067 Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3 C4 Yes TS 24.080 Mobile radio Layer 3 supplementary Service; Stage 3 C4 Yes TS 24.081 Line Identification Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Deflection Supplementary Service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes TS 24.088 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Y	TS	23.127	Virtual Home Environment (VHE) / Open Service Access (OSA)	S2	Yes
TS 23.146 Technical realization of facsimile Group 3 service - non-transparent C3 Yes TS 23.153 Out of band transcoder control; Stage 2 C4 Yes TS 23.205 Bearer-independent circuit-switched core network; Stage 2 C4 Yes TS 23.221 Architectural requirements S2 Yes TS 23.221 Architectural requirements S2 Yes TS 23.227 Application and user interaction in the UE; Principles and specific requirements S2 Yes TS 23.271 Functional stage 2 description of Location Services (LCS) S2 Yes TR 23.873 Feasibility study for transport and control separation in the PS CN domain S2 No TR 23.908 Technical report on Pre-Paging C4 Yes TR 23.909 Technical report on the Gateway Location Register C4 Yes TR 23.910 Circuit switched data bearer services TR 23.911 Technical report on Out-of-band transcoder control C4 Yes TR 23.931 Technical report on Super-Charger C4 Yes TR 23.930 Iu principles S2 Yes TS 24.002 GSM-UMTS Public Land Mobile Network (PLMN) Access Reference C1 Yes C5 24.002 GSM-UMTS Public Land Mobile Network (PLMN) Access Reference C1 Yes TS 24.001 Mobile radio interface Layer 3 specification; Core network protocols; Stage 3 C1 Yes TS 24.010 Mobile radio interface Layer 3 - Supplementary Services Specification - General Aspects TS 24.011 Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface Services (LCS); Supplementary Service (SMS) support on mobile radio C1 Yes TS 24.002 Radio Link Protocol (RLP) for circuit switched bearer and teleservices C3 Yes TS 24.003 Location Services (LCS); Supplementary service operations; Stage 3 C4 Yes TS 24.004 Mobile Radio Layer 3 supplementary service operations; Stage 3 C4 Yes TS 24.005 Call Deflection Supplementary Service; Stage 3 C4 Yes TS 24.006 Mobile radio Layer 3 supplementary service specification; Formats and coding C4 Yes TS 24.007 Location Services (LCS); Supplementary service specification; Formats and coding C4 Yes TS 24.008 Mobile radio Layer 3 supplementary service; Stage 3 C4 Yes TS 24.008 Location Services (LCS); Supplementary Service; Stage 3 C4 Yes	TS	23.135	Multicall supplementary service; Stage 2	C4	Yes
TS 23.153 Out of band transcoder control; Stage 2 C4 Yes TS 23.205 Bearer-independent circuit-switched core network; Stage 2 C4 Yes TS 23.221 Architectural requirements S2 Yes TS 23.227 Application and user interaction in the UE; Principles and specific requirements S2 Yes TS 23.227 Application and user interaction in the UE; Principles and specific requirements S2 Yes TS 23.227 Functional stage 2 description of Location Services (LCS) TR 23.227 Feasibility study for transport and control separation in the PS CN domain S2 No Technical report on Pre-Paging C4 Yes TR 23.908 Technical report on Pre-Paging C4 Yes TR 23.909 Technical report on the Gateway Location Register C4 Yes TR 23.910 Circuit switched data bearer services C3 Yes TR 23.911 Technical report on Out-of-band transcoder control C4 Yes TR 23.912 Technical report on Super-Charger C4 Yes TR 23.930 Iu principles S2 Yes TS 24.002 GSM-UMTS Public Land Mobile Network (PLMN) Access Reference C61 Yes TS 24.007 Mobile radio interface signalling layer 3; General Aspects C7 Yes TS 24.008 Mobile radio interface Layer 3 - Supplementary Services Specification - General Aspects TS 24.010 Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects TS 24.011 Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface Layer 3 - Supplementary Services Specification - General Aspects TS 24.022 Radio Link Protocol (RLP) for circuit switched bearer and teleservices C3 Yes TS 24.030 Location Services (LCS); Supplementary service operations; Stage 3 C4 Yes TS 24.030 Location Services (LCS); Supplementary service operations; Stage 3 C4 Yes TS 24.081 Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3 C4 Yes TS 24.082 Call Deflection Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Deflection Supplementary Service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes	TS	23.140	Multimedia Messaging Service (MMS); Functional description; Stage 2	СР	Yes
TS 23.205 Bearer-independent circuit-switched core network; Stage 2 C4 Yes TS 23.221 Architectural requirements S2 Yes TS 23.227 Application and user interaction in the UE; Principles and specific requirements S2 Yes TS 23.227 Incutional stage 2 description of Location Services (LCS) S2 Yes TS 23.873 Feasibility study for transport and control separation in the PS CN domain S2 No TR 23.898 Technical report on Pre-Paging C4 Yes TR 23.909 Technical report on the Gateway Location Register C4 Yes TR 23.910 Circuit switched data bearer services C3 Yes TR 23.911 Technical report on Out-of-band transcoder control C4 Yes TR 23.920 Technical report on Super-Charger C4 Yes TR 23.930 Iu principles TS 24.002 GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration C5 QSM-UMTS Public Land Mobile Network (PLMN) Access Reference C6 Configuration C7 Yes TS 24.001 Mobile radio interface signalling layer 3; General Aspects C8 QSM-UMTS Public Land Mobile Network (PLMN) Access Reference C9 Configuration C6 Yes TS 24.001 Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects C8 QSM-UMTS Public Land Message Service (SMS) support on mobile radio interface Layer 3 - Supplementary Services Specification - General C4 Yes TS 24.011 Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface interface T5 Q4.021 Radio Link Protocol (RLP) for circuit switched bearer and teleservices C8 Yes TS 24.030 Location Services (LCS); Supplementary service operations; Stage 3 C4 Yes TS 24.031 Location Services (LCS); Supplementary service (eMLPP); Stage 3 C4 Yes TS 24.032 Call Deflection Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes	TS	23.146	Technical realization of facsimile Group 3 service - non-transparent	СЗ	Yes
TS 23.221 Architectural requirements S2 Yes TS 23.227 Application and user interaction in the UE; Principles and specific requirements S2 Yes TS 23.271 Functional stage 2 description of Location Services (LCS) TR 23.873 Feasibility study for transport and control separation in the PS CN domain S2 No Technical report on Pre-Paging C4 Yes TR 23.909 Technical report on the Gateway Location Register C4 Yes TR 23.910 Circuit switched data bearer services C3 Yes TR 23.911 Technical report on Out-of-band transcoder control C4 Yes TR 23.912 Technical report on Super-Charger C4 Yes TR 23.930 Iu principles S2 Yes TS 24.002 GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration TS 24.007 Mobile radio interface signalling layer 3; General Aspects C1 Yes TS 24.010 Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects C3 Yes TS 24.011 Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface TS 24.022 Radio Link Protocol (RLP) for circuit switched bearer and teleservices C3 Yes TS 24.030 Location Services (LCS); Supplementary service operations; Stage 3 C4 Yes TS 24.067 Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3 C4 Yes TS 24.082 Call Deflection Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Deflection Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Deflection Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary Service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes	TS	23.153	Out of band transcoder control; Stage 2	C4	Yes
TS 23.227 Application and user interaction in the UE; Principles and specific requirements S2 Yes TS 23.271 Functional stage 2 description of Location Services (LCS) S2 Yes TR 23.873 Feasibility study for transport and control separation in the PS CN domain S2 No TR 23.908 Technical report on Pre-Paging C4 Yes TR 23.909 Technical report on the Gateway Location Register C4 Yes TR 23.910 Circuit switched data bearer services TR 23.911 Technical report on Out-of-band transcoder control C4 Yes TR 23.912 Technical report on Super-Charger C4 Yes TR 23.930 Iu principles S2 Yes TS 24.002 GSM-UMTS Public Land Mobile Network (PLMN) Access Reference C1 Yes Configuration Mobile radio interface signalling layer 3; General Aspects C1 Yes TS 24.008 Mobile radio interface Layer 3 specification; Core network protocols; Stage 3 C1 Yes TS 24.010 Mobile Radio Interface Layer 3 - Supplementary Services Specification - General C4 Yes TS 24.010 Mobile Radio Interface Layer 3 - Supplementary Services Specification - General C4 Yes TS 24.020 Radio Link Protocol (RLP) for circuit switched bearer and teleservices C3 Yes TS 24.030 Location Services (LCS); Supplementary service operations; Stage 3 C4 Yes TS 24.067 Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3 C4 Yes TS 24.082 Call Deflection Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary Service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes	TS	23.205	Bearer-independent circuit-switched core network; Stage 2	C4	Yes
TS 23.271 Functional stage 2 description of Location Services (LCS) R23.873 Feasibility study for transport and control separation in the PS CN domain R23.908 Technical report on Pre-Paging R23.909 Technical report on the Gateway Location Register R23.910 Circuit switched data bearer services R23.911 Technical report on Out-of-band transcoder control R23.912 Technical report on Super-Charger R23.913 Lu principles R23.910 Li principles R23.910 Technical report on Super-Charger R23.911 Technical report on Super-Charger R23.912 Technical report on Super-Charger R23.930 Lu principles R24.002 GSM-UMTS Public Land Mobile Network (PLMN) Access Reference C1 Yes R24.003 Mobile radio interface signalling layer 3; General Aspects R24.004 Mobile radio interface Layer 3 specification; Core network protocols; Stage 3 R24.005 Mobile Radio Interface Layer 3 - Supplementary Services Specification - General C4 Yes R24.011 Point-to-Point (PP) Short Message Service (SMS) support on mobile radio R24.021 Radio Link Protocol (RLP) for circuit switched bearer and teleservices R24.030 Location Services (LCS); Supplementary service operations; Stage 3 R24.031 Location Services (LCS); Supplementary service (eMLPP); Stage 3 R24.032 Call Deflection Supplementary service specification; Formats and coding R24.083 Mobile radio Layer 3 supplementary service; Stage 3 R24.084 Line Identification Supplementary service; Stage 3 R24.085 Call Forwarding supplementary service; Stage 3 R24.086 Call Forwarding supplementary service; Stage 3 R24.087 Call Deflection Supplementary Service; Stage 3 R24.088 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 R24.089 MultiParty (MPTY) Supplementary Service; Stage 3	TS	23.221	Architectural requirements	S2	Yes
TR 23.873 Feasibility study for transport and control separation in the PS CN domain S2 No TR 23.908 Technical report on Pre-Paging C4 Yes TR 23.909 Technical report on the Gateway Location Register C4 Yes TR 23.910 Circuit switched data bearer services C3 Yes TR 23.911 Technical report on Out-of-band transcoder control C4 Yes TR 23.912 Technical report on Super-Charger C4 Yes TR 23.930 lu principles S2 Yes TS 24.002 GSM-UMTS Public Land Mobile Network (PLMN) Access Reference C1 Yes Configuration Mobile radio interface signalling layer 3; General Aspects C1 Yes TS 24.007 Mobile radio interface Layer 3 specification; Core network protocols; Stage 3 C1 Yes Aspects C3.401 Print-to-Point (PP) Short Message Service (SMS) support on mobile radio C4 Yes TS 24.011 Point-to-Point (PP) Short Message Service (SMS) support on mobile radio C5 Yes TS 24.030 Location Services (LCS); Supplementary Service operations; Stage 3 C4 Yes TS 24.030 Location Services (LCS); Supplementary service operations; Stage 3 C4 Yes TS 24.030 Location Services (LCS); Supplementary service (eMLPP); Stage 3 C4 Yes TS 24.031 Einhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3 C4 Yes TS 24.081 Line Identification Supplementary service; Stage 3 C4 Yes TS 24.081 Line Identification Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service	TS	23.227	Application and user interaction in the UE; Principles and specific requirements	S2	Yes
TR 23.908 Technical report on Pre-Paging R 23.909 Technical report on the Gateway Location Register C4 Yes R 23.910 Circuit switched data bearer services C3 Yes R 23.911 Technical report on Out-of-band transcoder control C4 Yes R 23.912 Technical report on Super-Charger C4 Yes C5 Yes C6 Yes C7 Yes C8 Yes C8 Yes C9 Yes	TS	23.271	Functional stage 2 description of Location Services (LCS)	S2	Yes
TR 23.909 Technical report on the Gateway Location Register R 23.910 Circuit switched data bearer services C3 Yes R 23.911 Technical report on Out-of-band transcoder control C4 Yes R 23.912 Technical report on Super-Charger C4 Yes R 23.930 Iu principles C52 Yes C63 Yes C74 Yes C75 24.002 GSM-UMTS Public Land Mobile Network (PLMN) Access Reference C76 Configuration C77 Yes C78 24.003 Mobile radio interface signalling layer 3; General Aspects C79 Configuration C90 Mobile Radio Interface Layer 3 specification; Core network protocols; Stage 3 C1 Yes C80 Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects C90 Aspects C91 Yes C92 Configuration C92 Configuration C93 Configuration C94 Yes C95 Configuration C95 Configuration C96 Configuration C97 Configuration C97 Configuration C97 Configuration C98 Configuration C98 Configuration C98 Configuration C99 Configuration C99 Configuration C99 Configuration C90	TR	23.873	Feasibility study for transport and control separation in the PS CN domain	S2	No
TR 23.910 Circuit switched data bearer services R 23.911 Technical report on Out-of-band transcoder control C4 Yes R 23.912 Technical report on Super-Charger C4 Yes R 23.930 Iu principles S2 Yes TS 24.002 GSM-UMTS Public Land Mobile Network (PLMN) Access Reference C1 Yes TS 24.007 Mobile radio interface signalling layer 3; General Aspects C1 Yes TS 24.008 Mobile radio interface Layer 3 specification; Core network protocols; Stage 3 C1 Yes TS 24.010 Mobile Radio Interface Layer 3 - Supplementary Services Specification - General C4 Yes TS 24.011 Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface TS 24.022 Radio Link Protocol (RLP) for circuit switched bearer and teleservices TS 24.030 Location Services (LCS); Supplementary service operations; Stage 3 C4 Yes TS 24.072 Call Deflection Supplementary Service; Stage 3 C4 Yes TS 24.080 Mobile radio Layer 3 supplementary service specification; Formats and coding C4 Yes TS 24.080 Call Forwarding supplementary Service; Stage 3 C4 Yes TS 24.081 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes	TR	23.908	Technical report on Pre-Paging	C4	Yes
TR 23.911 Technical report on Out-of-band transcoder control C4 Yes TR 23.912 Technical report on Super-Charger C4 Yes TR 23.930 Iu principles S2 Yes TS 24.002 GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration TS 24.007 Mobile radio interface signalling layer 3; General Aspects C1 Yes TS 24.008 Mobile radio interface Layer 3 specification; Core network protocols; Stage 3 C1 Yes TS 24.010 Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects TS 24.011 Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface TS 24.022 Radio Link Protocol (RLP) for circuit switched bearer and teleservices TS 24.030 Location Services (LCS); Supplementary service operations; Stage 3 TS 24.067 Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3 TS 24.080 Mobile radio Layer 3 supplementary service specification; Formats and coding C4 Yes TS 24.081 Line Identification Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary Service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes	TR	23.909	Technical report on the Gateway Location Register	C4	Yes
TR 23.912 Technical report on Super-Charger R 23.930 Iu principles S2 Yes TS 24.002 GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration S2 24.007 Mobile radio interface signalling layer 3; General Aspects C1 Yes S2 24.008 Mobile radio interface Layer 3 specification; Core network protocols; Stage 3 C1 Yes TS 24.010 Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects TS 24.011 Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface TS 24.022 Radio Link Protocol (RLP) for circuit switched bearer and teleservices TS 24.030 Location Services (LCS); Supplementary service operations; Stage 3 C4 Yes TS 24.072 Call Deflection Supplementary Service; Stage 3 C4 Yes TS 24.080 Mobile radio Layer 3 supplementary service specification; Formats and coding C4 Yes TS 24.081 Line Identification Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary Service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3	TR	23.910	Circuit switched data bearer services	C3	Yes
TR 23.912 Technical report on Super-Charger R 23.930 Iu principles S2 Yes TS 24.002 GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration S2 24.007 Mobile radio interface signalling layer 3; General Aspects C1 Yes S2 4.008 Mobile radio interface Layer 3 specification; Core network protocols; Stage 3 C1 Yes TS 24.010 Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects TS 24.011 Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface TS 24.022 Radio Link Protocol (RLP) for circuit switched bearer and teleservices TS 24.030 Location Services (LCS); Supplementary service operations; Stage 3 C4 Yes TS 24.072 Call Deflection Supplementary Service; Stage 3 C4 Yes TS 24.080 Mobile radio Layer 3 supplementary service specification; Formats and coding C4 Yes TS 24.081 Line Identification Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary Service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes	TR	23.911	Technical report on Out-of-band transcoder control	C4	Yes
TS 24.002 GSM-UMTS Public Land Mobile Network (PLMN) Access Reference C1 Yes Configuration TS 24.007 Mobile radio interface signalling layer 3; General Aspects C1 Yes TS 24.008 Mobile radio interface Layer 3 specification; Core network protocols; Stage 3 C1 Yes TS 24.010 Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects TS 24.011 Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface TS 24.022 Radio Link Protocol (RLP) for circuit switched bearer and teleservices C3 Yes TS 24.030 Location Services (LCS); Supplementary service operations; Stage 3 C4 Yes TS 24.067 Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3 C4 Yes TS 24.080 Mobile radio Layer 3 supplementary Service; Stage 3 C4 Yes TS 24.081 Line Identification Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary Service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes	TR	23.912		C4	Yes
Configuration TS 24.007 Mobile radio interface signalling layer 3; General Aspects C1 Yes TS 24.008 Mobile radio interface Layer 3 specification; Core network protocols; Stage 3 C1 Yes TS 24.010 Mobile Radio Interface Layer 3 - Supplementary Services Specification - General C4 Aspects TS 24.011 Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface TS 24.022 Radio Link Protocol (RLP) for circuit switched bearer and teleservices TS 24.030 Location Services (LCS); Supplementary service operations; Stage 3 TS 24.067 Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3 TS 24.072 Call Deflection Supplementary Service; Stage 3 TS 24.080 Mobile radio Layer 3 supplementary service specification; Formats and coding TS 24.081 Line Identification Supplementary Service; Stage 3 TS 24.082 Call Forwarding supplementary service; Stage 3 TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3	TR	23.930	lu principles	S2	Yes
TS 24.008 Mobile radio interface Layer 3 specification; Core network protocols; Stage 3 C1 Yes Z4.010 Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects TS 24.011 Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface TS 24.022 Radio Link Protocol (RLP) for circuit switched bearer and teleservices TS 24.030 Location Services (LCS); Supplementary service operations; Stage 3 C4 Yes TS 24.067 Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3 C4 Yes TS 24.072 Call Deflection Supplementary Service; Stage 3 C4 Yes TS 24.080 Mobile radio Layer 3 supplementary service specification; Formats and coding C4 Yes TS 24.081 Line Identification Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary Service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes	TS	24.002		C1	Yes
TS 24.010 Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects TS 24.011 Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface TS 24.022 Radio Link Protocol (RLP) for circuit switched bearer and teleservices TS 24.030 Location Services (LCS); Supplementary service operations; Stage 3 TS 24.067 Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3 TS 24.072 Call Deflection Supplementary Service; Stage 3 TS 24.080 Mobile radio Layer 3 supplementary service specification; Formats and coding TS 24.081 Line Identification Supplementary Service; Stage 3 TS 24.082 Call Forwarding supplementary service; Stage 3 TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3	TS	24.007	Mobile radio interface signalling layer 3; General Aspects	C1	Yes
Aspects TS 24.011 Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface TS 24.022 Radio Link Protocol (RLP) for circuit switched bearer and teleservices TS 24.030 Location Services (LCS); Supplementary service operations; Stage 3 TS 24.067 Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3 TS 24.072 Call Deflection Supplementary Service; Stage 3 TS 24.080 Mobile radio Layer 3 supplementary service specification; Formats and coding TS 24.081 Line Identification Supplementary Service; Stage 3 TS 24.082 Call Forwarding supplementary service; Stage 3 TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3	TS	24.008	Mobile radio interface Layer 3 specification; Core network protocols; Stage 3	C1	Yes
interface TS 24.022 Radio Link Protocol (RLP) for circuit switched bearer and teleservices C3 Yes TS 24.030 Location Services (LCS); Supplementary service operations; Stage 3 C4 Yes TS 24.067 Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3 C4 Yes TS 24.072 Call Deflection Supplementary Service; Stage 3 C4 Yes TS 24.080 Mobile radio Layer 3 supplementary service specification; Formats and coding C4 Yes TS 24.081 Line Identification Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3	TS	24.010		C4	Yes
TS 24.030 Location Services (LCS); Supplementary service operations; Stage 3 C4 Yes TS 24.067 Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3 C4 Yes TS 24.072 Call Deflection Supplementary Service; Stage 3 C4 Yes TS 24.080 Mobile radio Layer 3 supplementary service specification; Formats and coding C4 Yes TS 24.081 Line Identification Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes	TS	24.011		C1	Yes
TS 24.067 Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3 C4 Yes TS 24.072 Call Deflection Supplementary Service; Stage 3 C4 Yes TS 24.080 Mobile radio Layer 3 supplementary service specification; Formats and coding C4 Yes TS 24.081 Line Identification Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes	TS	24.022	Radio Link Protocol (RLP) for circuit switched bearer and teleservices	СЗ	Yes
TS 24.072 Call Deflection Supplementary Service; Stage 3 C4 Yes TS 24.080 Mobile radio Layer 3 supplementary service specification; Formats and coding C4 Yes TS 24.081 Line Identification Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes	TS	24.030	Location Services (LCS); Supplementary service operations; Stage 3	C4	Yes
TS 24.080 Mobile radio Layer 3 supplementary service specification; Formats and coding C4 Yes TS 24.081 Line Identification Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes	TS	24.067		C4	Yes
TS 24.080 Mobile radio Layer 3 supplementary service specification; Formats and coding C4 Yes TS 24.081 Line Identification Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes		1			Yes
TS 24.081 Line Identification Supplementary Service; Stage 3 C4 Yes TS 24.082 Call Forwarding supplementary service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes	-	1			
TS 24.082 Call Forwarding supplementary service; Stage 3 C4 Yes TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes		1			
TS 24.083 Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 C4 Yes TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes		1			
TS 24.084 MultiParty (MPTY) Supplementary Service; Stage 3 C4 Yes		-			
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Туре	Number	Title	WG prime	For publication?
TS	24.086	Advice of Charge (AoC) Supplementary Service; Stage 3	C4	Yes
TS	24.087	User-to-User Signalling (UUS); Stage 3	C4	Yes
TS	24.088	Call Barring (CB) Supplementary Service; Stage 3	C4	Yes
TS	24.090	Unstructured Supplementary Service Data (USSD); Stage 3	C4	Yes
TS	24.091	Explicit Call Transfer (ECT) Supplementary Service; Stage 3	C4	Yes
TS	24.093	Call Completion to Busy Subscriber (CCBS); Stage 3	C4	Yes
TS	24.096	Name Identification Supplementary Service; Stage 3	C4	Yes
TS	24.135	Multicall supplementary service; Stage 3	C4	Yes
TS	25.101	User Equipment (UE) radio transmission and reception (FDD)	R4	Yes
TS	25.102	User Equipment (UE) radio transmission and reception (TDD)	R4	Yes
TS	25.104	Base Station (BS) radio transmission and reception (FDD)	R4	Yes
TS	25.105	Base Station (BS) radio transmission and reception (TDD)	R4	Yes
TS	25.106	UTRA repeater radio transmission and reception	R4	Yes
TS	25.113	Base station and repeater electromagnetic compatibility (EMC)	R4	Yes
TS	25.123	Requirements for support of radio resource management (TDD)	R4	Yes
TS	25.133	Requirements for support of radio resource management (FDD)	R4	Yes
TS	25.141	Base Station (BS) conformance testing (FDD)	R4	Yes
TS	25.142	Base Station (BS) conformance testing (TDD)	R4	Yes
TS	25.143	UTRA repeater conformance testing	R4	Yes
TS	25.201	Physical layer - general description	R1	Yes
TS	25.211	Physical channels and mapping of transport channels onto physical channels (FDD)	R1	Yes
TS	25.212	Multiplexing and channel coding (FDD)	R1	Yes
TS	25.213	Spreading and modulation (FDD)	R1	Yes
TS	25.214	Physical layer procedures (FDD)	R1	Yes
TS	25.215	Physical layer; Measurements (FDD)	R1	Yes
TS	25.221	Physical channels and mapping of transport channels onto physical channels (TDD)	R1	Yes
TS	25.222	Multiplexing and channel coding (TDD)	R1	Yes
TS	25.223	Spreading and modulation (TDD)	R1	Yes
TS	25.224	Physical layer procedures (TDD)	R1	Yes
TS	25.225	Physical layer; Measurements (TDD)	R1	Yes
TS	25.301	Radio interface protocol architecture	R2	Yes
TS	25.302	Services provided by the physical layer	R2	Yes
TS	25.303	Interlayer procedures in Connected Mode	R2	Yes
TS	25.304	User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode	R2	Yes
TS	25.305	User Equipment (UE) positioning in Universal Terrestrial Radio Access Network (UTRAN); Stage 2	R2	Yes
TS	25.306	UE Radio Access capabilities	R2	Yes
TS	25.307	Requirements on User Equipments (Ues) supporting a release-independent frequency band	R2	Yes
TS	25.321	Medium Access Control (MAC) protocol specification	R2	Yes
TS	25.322	Radio Link Control (RLC) protocol specification	R2	Yes
TS	25.323	Packet Data Convergence Protocol (PDCP) specification	R2	Yes
TS	25.324	Broadcast/Multicast Control (BMC)	R2	Yes
TS	25.331	Radio Resource Control (RRC) protocol specification	R2	Yes
TS	25.401	UTRAN overall description	R3	Yes
TS	25.402	Synchronization in UTRAN Stage 2	R3	Yes
TS	25.410	UTRAN lu interface: General aspects and principles	R3	Yes
TS	25.411	UTRAN lu interface layer 1	R3	Yes

Туре	Number	Title	WG prime	For publication?
TS	25.413	UTRAN lu interface Radio Access Network Application Part (RANAP) signalling	R3	Yes
TS	25.414	UTRAN lu interface data transport & transport signalling	R3	Yes
TS	25.415	UTRAN lu interface user plane protocols	R3	Yes
TS	25.419	UTRAN lu-BC interface: Service Area Broadcast Protocol (SABP)	R3	Yes
TS	25.420	UTRAN lur interface general aspects and principles	R3	Yes
TS	25.421	UTRAN lur interface layer 1	R3	Yes
TS	25.422	UTRAN lur interface signalling transport	R3	Yes
TS	25.423	UTRAN lur interface Radio Network Subsystem Application Part (RNSAP) signalling	R3	Yes
TS	25.424	UTRAN lur interface data transport & transport signalling for Common Transport Channel data streams	R3	Yes
TS	25.425	UTRAN lur interface user plane protocols for Common Transport Channel data streams	R3	Yes
TS	25.426	UTRAN lur and lub interface data transport & transport signalling for DCH data streams	R3	Yes
TS	25.427	UTRAN lur/lub interface user plane protocol for DCH data streams	R3	Yes
TS	25.430	UTRAN lub Interface: general aspects and principles	R3	Yes
TS	25.431	UTRAN lub interface Layer 1	R3	Yes
TS	25.432	UTRAN lub interface: signalling transport	R3	Yes
TS	25.433	UTRAN lub interface Node B Application Part (NBAP) signalling	R3	Yes
TS	25.434	UTRAN lub interface data transport and transport signalling for Common Transport Channel data streams	R3	Yes
TS	25.435	UTRAN lub interface user plane protocols for Common Transport Channel data streams	R3	Yes
TS	25.442	UTRAN implementation-specific O&M transport	R3	Yes
TR	25.832	Manifestations of Handover and SRNS relocation	R3	No
TR	25.834	UTRA TDD low chip rate option; Radio protocol aspects	R2	No
TR	25.836	Node B synchronization for TDD	R1	No
TR	25.838	Node B Synchronisation for TDD (lub/lur aspects)	R3	No
TR	25.840	Terminal power saving features	R1	No
TR	25.841	DSCH power control improvement in soft handover	R1	No
TR	25.843	1,28 Mcps TDD UE Radio Access Capabilities	R2	No
TR	25.844	Radio acces bearer support enhancements	R2	No
TR	25.847	UE positioning enhancements	R2	No
TR	25.848	Physical Layer Aspects of UTRA High Speed Downlink Packet Access	R1	No
TR	25.849	DSCH power control improvement in soft handover	R3	No
TR	25.850	UE positioning in UTRAN lub/lur protocol aspects	R3	No
TR	25.851	RAB Quality of Service (QoS) Renegotiation over lu	R3	No
TR	25.853	Delay budget within the access stratum	R3	No
TR	25.921	Guidelines and principles for protocol description and error handling	R2	Yes
TR	25.922	Radio resource management strategies	R2	Yes
TR	25.928	1,28 Mcps functionality for UTRA TDD physical layer	R1	Yes
TR	25.931	UTRAN functions, examples on signalling procedures	R3	Yes
TR	25.934	AAL2 QoS optimization	R3	Yes
TR	25.935	RRM optimisation	R3	Yes
TR	25.936	Handover for realtime services from PS-domain	R3	Yes
TR	25.937	UTRAN TDD low chiprate	R3	Yes
TR	25.942	Radio Frequency (RF) system scenarios	R4	Yes
TR	25.943	Deployment aspects	R4	Yes
TR	25.944	Channel coding and multiplexing examples	R1	Yes
TR	25.945	RF requirements for low chip rate TDD option	R4	Yes
TR	25.946	RAB Quality of Service (QoS) Negotiation over Iu	R3	Yes
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Туре	Number	Title	WG prime	For publication?
TR	25.950	UTRA High Speed Downlink Packet Access (HSDPA)	R2	Yes
TR	25.953	TrFO/TFO	R3	Yes
TR	25.954	Migration to modification procedure	R3	Yes
TR	25.956	Universal Terrestrial Radio Access (UTRA) repeater planning guidelines and system analysis	R4	Yes
TR	25.993	Typical examples of Radio Access Bearers (RABs) and Radio Bearers (RBs) supported by Universal Terrestrial Radio Access (UTRA)	R2	Yes
TS	26.071	AMR speech Codec; General description	S4	Yes
TS	26.073	AMR speech Codec; C-source code	S4	Yes
TS	26.074	AMR speech Codec; Test sequences	S4	Yes
TS	26.077	Minimum performance requirements for noise suppresser application to the Adaptive Multi-Rate (AMR) speech encoder	S4	Yes
TS	26.090	AMR speech Codec; Transcoding Functions	S4	Yes
TS	26.091	AMR speech Codec; Error concealment of lost frames	S4	Yes
TS	26.092	AMR speech Codec; comfort noise for AMR Speech Traffic Channels	S4	Yes
TS	26.093	AMR speech Codec; Source Controlled Rate operation	S4	Yes
TS	26.094	AMR Speech Codec; Voice Activity Detector for AMR Speech Traffic Channels	S4	Yes
TS	26.101	Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec frame structure	S4	Yes
TS	26.102	Adaptive Multi-Rate (AMR) speech codec; Interface to Iu and Uu	S4	Yes
TS	26.103	Speech codec list for GSM and UMTS	S4	Yes
TS	26.104	ANSI-C code for the floating-point Adaptive Multi-Rate (AMR) speech codec	S4	Yes
TS	26.110	Codec for circuit switched multimedia telephony service; General description	S4	Yes
TS	26.111	Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324	S4	Yes
TS	26.115	Echo control for speech and multimedia services	S4	Yes
TS	26.131	Terminal acoustic characteristics for telephony; Requirements	S4	Yes
TS	26.132	Narrow band (3,1 kHz) speech and video telephony terminal acoustic test specification	S4	Yes
TS	26.233	End-to-end transparent streaming service; General description	S4	Yes
TS	26.234	Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs	S4	Yes
TR	26.901	Adaptive Multi-Rate Wideband (AMR-WB) speech codec; Feasibility study report	S4	Yes
TR	26.911	Codec(s) for Circuit-Switched (CS) multimedia telephony service; Terminal implementor"s guide	S4	Yes
TR	26.912	Codec for Circuit switched Multimedia Telephony Service; Quantitative performance evaluation of H.324 Annex C over 3G	S4	Yes
TR	26.975	Performance characterization of the Adaptive Multi-Rate (AMR) speech codec	S4	Yes
TR	26.978	Results of the Adaptive Multi-Rate (AMR) noise suppression selection phase	S4	Yes
TS	27.001	General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)	C3	Yes
TS	27.002	Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities	C3	Yes
TS	27.003	Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities	C3	Yes
TS	27.005	Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE-DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)	C1	Yes
TS	27.007	AT command set for User Equipment (UE)	C1	Yes
TS	27.010	Terminal Equipment to User Equipment (TE-UE) multiplexer protocol	C3	Yes
TS	27.060	Packet domain; Mobile Station (MS) supporting Packet Switched services	C3	Yes
TS	27.103	Wide Area Network Synchronization	C1	Yes
TR	27.901	Report on Terminal Interfaces - An Overview	C3	Yes
TR	27.903	Discussion of synchronization standards	C1	Yes
TS	28.062	Inband Tandem Free Operation (TFO) of speech codecs; Service description; Stage 3	S4	Yes

Туре	Number	Title	WG prime	For publication?
TS	29.002	Mobile Application Part (MAP) specification	C4	Yes
TS	29.007	General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)	C3	Yes
TS	29.010	Information element mapping between Mobile Station - Base Station System (MS - BSS) and Base Station System - Mobile-services Switching Centre (BSS - MSC); Signalling Procedures and the Mobile Application Part (MAP)	C4	Yes
TS	29.011	Signalling Interworking for Supplementary Services	C4	Yes
TS	29.013	Signalling interworking between ISDN supplementary services Application Service Element (ASE) and Mobile Application Part (MAP) protocols	C4	Yes
TS	29.016	Serving GPRS Support Node SGSN - Visitors Location Register (VLR); Gs Interface Network Service Specification	C1	Yes
TS	29.018	General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface layer 3 specification	C1	Yes
TS	29.060	General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface	C4	Yes
TS	29.061	Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)	C3	Yes
TS	29.078	Customized Applications for Mobile network Enhanced Logic (CAMEL) Phase X; CAMEL Application Part (CAP) specification	C4	Yes
TS	29.108	Application of the Radio Access Network Application Part (RANAP) on the E-interface	R3	Yes
TS	29.119	GPRS Tunnelling Protocol (GTP) specification for Gateway Location Register (GLR)	C4	Yes
TS	29.120	Mobile Application Part (MAP) specification for Gateway Location Register (GLR); Stage 3	C4	Yes
TS	29.198- 01	Open Service Access (OSA) Application Programming Interface (API); Part 1: Overview	C5	Yes
TS	29.198- 02	Open Service Access (OSA) Application Programming Interface (API); Part 2: Common data definitions	C5	Yes
TS	29.198- 03	Open Service Access (OSA) Application Programming Interface (API); Part 3: Framework	C5	Yes
TS	29.198- 04	Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control Service Capability Feature (SCF)	C5	Yes
TS	29.198- 05	Open Service Access (OSA) Application Programming Interface (API); Part 5: User interaction Service Capability Feature (SCF)	C5	Yes
TS	29.198- 06	Open Service Access (OSA) Application Programming Interface (API); Part 6: Mobility Service Capability Feature (SCF)	C5	Yes
TS	29.198- 07	Open Service Access (OSA) Application Programming Interface (API); Part 7: Terminal capabilities Service Capability Feature (SCF)	C5	Yes
TS	29.198- 08	Open Service Access (OSA) Application Programming Interface (API); Part 8: Data session control Service Capability Feature (SCF)	C5	Yes
TS	29.198- 11	Open Service Access (OSA) Application Programming Interface (API); Part 11: Account management Service Capability Feature (SCF)	C5	Yes
TS	29.198- 12	Open Service Access (OSA) Application Programming Interface (API); Part 12: Charging Service Capability Feature (SCF)	C5	Yes
TS	29.202	Signalling System No. 7 (SS7) signalling transport in core network; Stage 3	C4	Yes
TS	29.205	Application of Q.1900 series to bearer-independent Circuit Switched (CS) core network architecture; Stage 3	C4	Yes
TS	29.232	Media Gateway Controller (MGC) - Media Gateway (MGW) interface; Stage 3	C4	Yes
TS	29.414	Core network Nb data transport and transport signalling	СЗ	Yes
TS	29.415	Core network Nb interface user plane protocols	C3	Yes
TR	29.994	Recommended infrastructure measures to overcome specific Mobile Station (MS) and User Equipment (UE) faults	C1	Yes
TR	29.998- 01	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 1: General issues on Application Programme Interface (API) mapping	C5	Yes

Туре	Number	Title	WG prime	For publication?
TR	29.998- 04-1	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 1: API to CAP Mapping	C5	Yes
TR	29.998- 05-1	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 1: API to CAP Mapping	C5	Yes
TR	29.998- 05-4	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 4: API to SMS Mapping	C5	Yes
TR	29.998- 06	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 6: User Location and User Status Service Mapping to MAP	C5	Yes
TR	29.998- 08	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 8: Data Session Control Service Mapping to CAP	C5	Yes
TR	30.902	Guidelines for the modification of the Mobile Application Part (MAP) in Phase 2+	C4	No
TS	31.048	Security mechanisms for the (U)SIM application toolkit; Test specification	C6	Yes
TS	31.101	UICC-terminal interface; Physical and logical characteristics	C6	Yes
TS	31.102	Characteristics of the Universal Subscriber Identity Module (USIM) application	C6	Yes
TS	31.110	Numbering system for telecommunication IC card applications	C6	Yes
TS	31.111	Universal Subscriber Identity Module (USIM) Application Toolkit (USAT)	C6	Yes
TS	31.120	UICC-terminal interface; Physical, electrical and logical test specification	C6	Yes
TS	31.121	UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification	C6	Yes
TS	31.122	Universal Subscriber Identity Module (USIM) conformance test specification	C6	Yes
TS	31.124	Mobile Equipment (ME) conformance test specification; Universal Subscriber Interface Module Application Toolkit (USAT) conformance test specification	C6	Yes
TR	31.900	SIM/USIM internal and external interworking aspects	C6	Yes
TS	32.101	Telecommunication management; Principles and high level requirements	S5	Yes
TS	32.102	Telecommunication management; Architecture	S5	Yes
TS	32.111-1	Telecommunication management; Fault Management; Part 1: 3G fault management requirements	S5	Yes
TS	32.111-2	Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point (IRP): Information Service (IS)	S5	Yes
TS	32.111-3	Telecommunication management; Fault Management; Part 3: Alarm Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes
TS	32.111-4	Telecommunication management; Fault Management; Part 4: Alarm Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes
TS	32.200	Telecommunication management; Charging management; Charging principles	S5	Yes
TS	32.205	Telecommunication management; Charging management; Charging data description for the Circuit Switched (CS) domain	S5	Yes
TS	32.215	Telecommunication management; Charging management; Charging data description for the Packet Switched (PS) domain	S5	Yes
TS	32.235	Telecommunication management; Charging management; Charging data description for application services	S5	Yes
TS	32.300	Telecommunication management; Configuration Management (CM); Name convention for Managed Objects	S5	Yes
TS	32.301	Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): Requirements	S5	Yes
TS	32.302	Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): Information Service (IS)	S5	Yes
TS	32.303	Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes
TS	32.304	Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): Common Management Information Protocol	S5	Yes

Туре	Number	Title	WG prime	For publication?
		(CMIP) Solution Set (SS)		P
TS	32.311	Telecommunication management; Generic Integration Reference Point (IRP) management; Requirements	S5	Yes
TS	32.312	Telecommunication management; Generic Integration Reference Point (IRP) management; Information Service (IS)	S5	Yes
TS	32.401	Telecommunication management; Performance Management (PM); Concept and requirements	S5	Yes
TS	32.403	Telecommunication management; Performance Management (PM); Performance measurements - UMTS and combined UMTS/GSM	S5	Yes
TS	32.600	Telecommunication management; Configuration Management (CM); Concept and high-level requirements	S5	Yes
TS	32.601	Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP); Requirements	S5	Yes
TS	32.602	Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP): Information Service (IS)	S5	Yes
TS	32.603	Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes
TS	32.604	Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP) Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes
TS	32.611	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Requirements	S5	Yes
TS	32.612	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Information Service (IS)	S5	Yes
TS	32.613	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes
TS	32.614	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes
TS	32.615	Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): eXtensible Markup Language (XML) file format definition	S5	Yes
TS	32.621	Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP); Requirements	S5	Yes
TS	32.622	Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): Network Resource Model (NRM)	S5	Yes
TS	32.623	Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes
TS	32.624	Telecommunication management; Configuration Management (CM); Generic network resources: Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes
TS	32.631	Telecommunication management; Configuration Management (CM); Core network resources Integration Reference Point (IRP): Requirements	S5	Yes
TS	32.632	Telecommunication management; Configuration Management (CM); Core Network Resources Integration Reference Point (IRP): Network Resource Model (NRM)	S5	Yes
TS	32.633	Telecommunication management; Configuration Management (CM); Core network resources Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes
TS	32.634	Telecommunication management; Configuration Management (CM); Core network resources Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes
TS	32.641	Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP); Requirements	S5	Yes
TS	32.642	Telecommunication management; Configuration Management (CM); UTRAN	S5	Yes

Туре	Number	Title	WG prime	For publication?
		network resources Integration Reference Point (IRP): Network Resource Model (NRM)	-	-
TS	32.643	Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)	S5	Yes
TS	32.644	Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): Common Management Information Protocol (CMIP) Solution Set (SS)	S5	Yes
TR	32.800	Telecommunication management; Management level procedures and interaction with UTRAN	S5	No
TS	33.102	3G security; Security architecture	S3	Yes
TS	33.103	3G security; Integration guidelines	S3	Yes
TS	33.105	Cryptographic algorithm requirements	S3	Yes
TS	33.106	Lawful interception requirements	S3	Yes
TS	33.107	3G security; Lawful interception architecture and functions	S3	Yes
TS	33.120	Security Objectives and Principles	S3	Yes
TS	33.200	3G Security; Network Domain Security (NDS); Mobile Application Part (MAP) application layer security	S3	Yes
TR	33.901	Criteria for cryptographic Algorithm design process	S3	Yes
TR	33.902	Formal Analysis of the 3G Authentication Protocol	S3	Yes
TR	33.903	Access Security for IP based services	S3	Yes
TR	33.908	3G Security; General report on the design, specification and evaluation of 3GPP standard confidentiality and integrity algorithms	S3	Yes
TR	33.909	3G Security; Report on the design and evaluation of the MILENAGE algorithm set; Deliverable 5: An example algorithm for the 3GPP authentication and key generation functions	S3	Yes
TS	34.108	Common test environments for User Equipment (UE); Conformance testing	R5	Yes
TS	34.109	Terminal logical test interface; Special conformance testing functions	R2	Yes
TS	34.121	Terminal conformance specification, Radio transmission and reception (FDD)	R5	Yes
TS	34.122	Terminal conformance specification, Radio transmission and reception (TDD)	R5	Yes
TS	34.123-1	User Equipment (UE) conformance specification; Part 1: Protocol conformance specification	R5	Yes
TS	34.123-2	User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification	R5	Yes
TS	34.123-3	User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSs)	R5	Yes
TS	34.124	Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment	R4	Yes
TR	34.910	Identification of test requirements for regulatory purposes in different regions/countries	R5	Yes
TR	34.926	Electromagnetic compatibility (EMC); Table of international requirements for mobile terminals and ancillary equipment	R4	Yes
TS	35.201	Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specification	S3	Yes
TS	35.202	Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi specification	S3	Yes
TS	35.203	Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data	S3	Yes
TS	35.204	Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data	S3	Yes
TS	35.205	3G Security; Specification of the MILENAGE Algorithm Set: An example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 1: General	S3	Yes
TS	35.206	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 2: Algorithm specification	S3	Yes
TS	35.207	3G Security; Specification of the MILENAGE algorithm set: An example	S3	Yes

Туре	Number	Title	WG prime	For publication?
		algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 3: Implementors" test data		
TS	35.208	3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 4: Design conformance test data	S3	Yes
TR	35.909	3G Security; Specification of the MILENAGE algorithm set: an example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 5: Summary and results of design and evaluation	S3	Yes

Annex A (informative): Change history

	Change history						
TSG SA#	Version	CR	Tdoc SA	New Version	Subject/Comment		
SP-11	3GPP TS 21.102 version 2.2.0	-	SP-010211	3GPP TS 21.102 version 4.0.0	Approved and placed under TSG SA Change Control (Rel-4)		
SP-12	4.0.0	001 r2	SP-010396	4.1.0	Correction to list of specs		
SP-13	4.1.0	003 r1	SP-010534	4.2.0	Correction to list of specs		
SP-14	4.2.0	004 r1	SP-010753	4.3.0	Correction to list of specs		
SP-15	4.3.0	005 r1	SP-020176	4.4.0	Correction to list of specs		
SP-16	4.4.0	007 r1	SP-020397	4.5.0	Correction to list of specs		
SP-17	4.5.0	008 r1	SP-020612	4.6.0	Correction to list of specs; editorial corrections to titles.		
SP-18	4.6.0	009 r1	SP-020830	4.7.0	Correction to list of specs; editorial corrections to titles.		
SP-19	4.7.0	010	SP-030077	4.8.0	Correction to list of specs; editorial corrections to titles.		
SP-20	3GPP	011	SP-030229	3GPP	Correction to list of specs		
	TS 21.102 version 4.8.0		SP-030235	TS 21.101 version 4.9.0	Renumber from 21.102 to 21.101		
SP-22	4.9.0	016	SP-030574	4.10.0	Correction to list of specs, editorial corrections to spec titles		
SP-26	4.10.0	023 r1	SP-040880	4.11.0	Correction to list of specs		
SP-27	4.11.0	027	SP-050126	4.12.0	Correction to list of specs		
SP-31	4.12.0	036	SP-060167	4.13.0	Correction to list of specs		

History

Document history					
V4.9.0	June 2003	Publication			
V4.10.0	December 2003	Publication			
V4.11.0	December 2004	Publication			
V4.12.0	March 2005	Publication			
V4.13.0	March 2006	Publication			