

ETSI TS 121 101 V8.4.0 (2012-03)



**Universal Mobile Telecommunications System (UMTS);  
Technical Specifications and Technical Reports  
for a UTRAN-based 3GPP system  
(3GPP TS 21.101 version 8.4.0 Release 8)**



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**Reference**

RTS/TSGS-0021101v840

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**Keywords**

UMTS

**ETSI**

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## Foreword

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

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

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

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## Foreword

This Technical Specification (TS) has been produced by the 3<sup>rd</sup> 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.

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## 1 Scope

The present document identifies the 3GPP system specifications for Release 8. The specifications and reports of 3GPP Release 8 have a major version number 8 (i.e. 8.x.y). The listed Specifications are required to build a system based on UTRAN radio technology.

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## 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".

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## 3 Abbreviations

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

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## 4 General

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

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## 5 Specifications and Reports

NOTE 1: The "for publication?" 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).

NOTE 4: For definition of "freezing" of specifications (last two columns), see 3GPP TS 21.900 [2].

| Type | Number | Title   | WG prime | For publication? | freeze date | frozen |
|------|--------|---|----------|------------------|-------------|--------|
| TS   | 21.101 | Technical Specifications and Technical Reports for a UTRAN-based 3GPP system                        | SP       | Yes              | 2008-12-11  | yes    |
| TS   | 21.111 | USIM and IC card requirements   | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 21.202 | Technical Specifications and Technical Reports relating to the Common IP Multimedia Subsystem (IMS) | SP       | Yes              | 2009-03-12  | yes    |

| Type | Number | Title   | WG prime | For publication? | freeze date | frozen |
|------|--------|---|----------|------------------|-------------|--------|
| TR   | 21.801 | Specification drafting rules  | SP       | No               | 2008-12-11  | yes    |
| TR   | 21.900 | Technical Specification Group working methods   | SP       | Yes              | 2008-12-11  | yes    |
| TR   | 21.902 | Evolution of 3GPP system  | SP       | Yes              | 2008-12-11  | yes    |
| TR   | 21.905 | Vocabulary for 3GPP Specifications  | SP       | Yes              | 2008-12-11  | yes    |
| TS   | 22.001 | Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN) | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.002 | Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN)                     | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.003 | Circuit Teleservices supported by a Public Land Mobile Network (PLMN)                             | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.004 | General on supplementary services   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.011 | Service accessibility   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.016 | International Mobile station Equipment Identities (IMEI)  | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.022 | Personalisation of Mobile Equipment (ME); Mobile functionality specification                      | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.024 | Description of Charge Advice Information (CAI)  | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.030 | Man-Machine Interface (MMI) of the User Equipment (UE)  | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.031 | 3G Security; Fraud Information Gathering System (FIGS); Service description; Stage 1              | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 22.032 | Immediate Service Termination (IST); Service description; Stage 1                                 | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 22.034 | High Speed Circuit Switched Data (HSCSD); Stage 1   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.038 | (U)SIM Application Toolkit (USAT); Service description; Stage 1                                   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.041 | Operator Determined Barring (ODB)   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.042 | Network Identity and TimeZone (NITZ); Service description; Stage 1                                | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.053 | Tandem Free Operation (TFO); Service description; Stage 1   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 22.057 | Mobile Execution Environment (MExE); Service description; Stage 1                                 | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.060 | General Packet Radio Service (GPRS); Service description; Stage 1                                 | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.066 | Support of Mobile Number Portability (MNP); Service description; Stage 1                          | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.067 | enhanced Multi Level Precedence and Pre-emption service (eMLPP); Stage 1                          | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.071 | Location Services (LCS); Service description; Stage 1   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.072 | Call Deflection (CD) service description; Stage 1   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.076 | Noise suppression for the AMR codec; Service description; Stage 1                                 | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 22.078 | Customized Applications for Mobile network Enhanced Logic (CAMEL); Service description; Stage 1   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.079 | Support of Optimal Routeing (SOR); Service definition; Stage 1                                    | S1       | Yes              | 2008-12-11  | yes    |

| Type | Number | Title   | WG prime | For publication? | freeze date | frozen |
|------|--------|---|----------|------------------|-------------|--------|
| TS   | 22.081 | Line Identification supplementary services; Stage 1   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.082 | Call Forwarding (CF) Supplementary Services; Stage 1  | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.083 | Call Waiting (CW) and Call Holding (HOLD); Supplementary Services; Stage 1                                  | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.084 | MultiParty (MPTY) supplementary service; Stage 1  | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.085 | Closed User Group (CUG) supplementary services; Stage 1   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.086 | Advice of Charge (AoC) supplementary services; Stage 1  | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.087 | User-to-User Signalling (UUS); Service description; Stage 1   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.088 | Call Barring (CB) supplementary services; Stage 1   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.090 | Unstructured Supplementary Service Data (USSD); Stage 1   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.091 | Explicit Call Transfer (ECT) supplementary service; Stage 1   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.093 | Completion of Calls to Busy Subscriber (CCBS); Service description, Stage 1                                 | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.094 | Follow Me service description; Stage 1  | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.096 | Name identification supplementary services; Stage 1   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.097 | Multiple Subscriber Profile (MSP) Phase 2; Service description; Stage 1                                     | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.101 | Service aspects; Service principles   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.105 | Services and service capabilities   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.112 | USIM Application Toolkit (USAT) Interpreter; Stage 1  | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 22.115 | Service aspects; Charging and billing   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.127 | Service requirement for the Open Services Access (OSA); Stage 1   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.129 | Service aspects; Handover requirements between UTRAN and GERAN or other radio systems                       | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.135 | Multicall; Service description; Stage 1   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.140 | Multimedia Messaging Service (MMS); Stage 1   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.141 | Presence service; Stage 1   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.146 | Multimedia Broadcast/Multicast Service (MBMS); Stage 1  | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.153 | Multimedia priority service   | S1       | Yes              | 2007-12-06  | yes    |
| TS   | 22.168 | Earthquake and Tsunami Warning System (ETWS) requirements; Stage 1  | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.173 | IP Multimedia Core Network Subsystem (IMS) Multimedia Telephony Service and supplementary services; Stage 1 | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.174 | Push Service; Service aspects; Stage 1  | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.182 | Customized Alerting Tones (CAT) requirements; Stage 1   | S1       | Yes              | 2008-12-11  | yes    |



| Type | Number | Title  | WG prime | For publication? | freeze date | frozen |
|------|--------|--|----------|------------------|-------------|--------|
| TS   | 22.226 | Global Text Telephony (GTT); Stage 1   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.228 | Service requirements for the Internet Protocol (IP) multimedia core network subsystem (IMS); Stage 1 | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.233 | Transparent end-to-end packet-switched streaming service; Stage 1                                    | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.234 | Requirements on 3GPP system to Wireless Local Area Network (WLAN) interworking                       | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.240 | Service requirements for 3GPP Generic User Profile (GUP); Stage 1                                    | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.242 | Digital Rights Management (DRM); Stage 1   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.243 | Speech recognition framework for automated voice services; Stage 1                                   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.246 | Multimedia Broadcast/Multicast Service (MBMS) user services; Stage 1                                 | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.250 | IP Multimedia Subsystem (IMS) Group Management; Stage 1  | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.259 | Service requirements for Personal Network Management (PNM); Stage 1                                  | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.278 | Service requirements for the Evolved Packet System (EPS)   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.279 | Combined Circuit Switched (CS) and IP Multimedia Subsystem (IMS) sessions; Stage 1                   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.340 | IP Multimedia Subsystem (IMS) messaging; Stage 1   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 22.401 | TISPAN; Videotelephony over NGN Service Description  | S1       | Yes              | 2008-09-18  | yes    |
| TR   | 22.868 | Study on facilitating machine to machine communication in 3GPP systems                               | S1       | No               | 2008-12-11  | yes    |
| TR   | 22.892 | Study on IMS Centralized Services (ICS) requirements   | S1       | No               | 2008-12-11  | yes    |
| TR   | 22.903 | Study on Videotelephony teleservice  | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.908 | Study on Paging Permission with Access Control (PPAC)  | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.912 | Study into network selection requirements for non-3GPP access  | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.934 | Feasibility study on 3GPP system to Wireless Local Area Network (WLAN) interworking                  | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.935 | Feasibility study on Location Services (LCS) for Wireless Local Area Network (WLAN) interworking     | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.936 | Multi-system terminals   | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.937 | Requirements for service continuity between mobile and Wireless Local Area Network (WLAN) networks   | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.940 | IP Multimedia Subsystem (IMS) messaging  | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.942 | Study on Value Added Services (VAS) for Short Message Service (SMS)                                  | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.944 | Report on service requirements for UE functionality split  | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.948 | Study of requirements of IP-Multimedia Subsystem (IMS) convergent multimedia conferencing            | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.949 | Study on a generalized privacy capability  | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.950 | Priority service feasibility study   | S1       | Yes              | 2008-12-11  | yes    |

| Type | Number | Title  | WG prime | For publication? | freeze date | frozen |
|------|--------|--|----------|------------------|-------------|--------|
| TR   | 22.951 | Service aspects and requirements for network sharing   | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.952 | Priority service guide   | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.953 | Multimedia priority service feasibility study  | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.967 | Transferring of emergency call data  | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.968 | Study for requirements for a Public Warning System (PWS) service                                     | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.973 | IMS Multimedia Telephony service; and supplementary services   | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.977 | Feasibility study for speech-enabled services  | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.978 | All-IP network (AIPN) feasibility study  | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.979 | Feasibility study on combined Circuit Switched (CS) calls and IP Multimedia Subsystem (IMS) sessions | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.980 | Network composition feasibility study  | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.982 | Study of Customised Alerting Tone (CAT) requirements   | S1       | Yes              | 2008-12-11  | yes    |
| TR   | 22.983 | Services alignment and migration   | S1       | Yes              | 2008-12-11  | yes    |
| TS   | 23.002 | Network architecture   | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.003 | Numbering, addressing and identification   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.007 | Restoration procedures   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.008 | Organization of subscriber data  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.009 | Handover procedures  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 23.011 | Technical realization of Supplementary Services  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.012 | Location management procedures   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.014 | Support of Dual Tone Multi-Frequency (DTMF) signalling   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 23.015 | Technical realization of Operator Determined Barring (ODB)   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.016 | Subscriber data management; Stage 2  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.018 | Basic call handling; Technical realization   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.031 | 3G Security; Fraud Information Gathering System (FIGS); Technical realization; Stage 2               | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 23.032 | Universal Geographical Area Description (GAD)  | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.034 | High Speed Circuit Switched Data (HSCSD); Stage 2  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 23.035 | Immediate Service Termination (IST); Stage 2   | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 23.038 | Alphabets and language-specific information  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 23.040 | Technical realization of the Short Message Service (SMS)   | C1       | Yes              | 2008-12-11  | yes    |

| Type | Number | Title  | WG prime | For publication? | freeze date | frozen |
|------|--------|--|----------|------------------|-------------|--------|
| TS   | 23.041 | Technical realization of Cell Broadcast Service (CBS)                                    | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 23.042 | Compression algorithm for text messaging services  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 23.053 | Tandem Free Operation (TFO); Service description; Stage 2                                | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.057 | Mobile Execution Environment (MExE); Functional description; Stage 2                     | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.060 | General Packet Radio Service (GPRS); Service description; Stage 2                        | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.066 | Support of Mobile Number Portability (MNP); Technical realization; Stage 2               | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.067 | enhanced Multi-Level Precedence and Pre-emption Service (eMLPP); Stage 2                 | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.072 | Call Deflection (CD) supplementary service; Stage 2                                      | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.078 | Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 4; Stage 2       | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.079 | Support of Optimal Routeing (SOR); Technical realization                                 | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.081 | Line Identification supplementary services; Stage 2                                      | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.082 | Call Forwarding (CF) supplementary services; Stage 2                                     | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.083 | Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 2                   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.084 | Multi Party (MPTY) supplementary service; Stage 2  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.085 | Closed User Group (CUG) supplementary service; Stage 2                                   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.086 | Advice of Charge (AoC) supplementary services; Stage 2                                   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.087 | User-to-User Signalling (UUS) supplementary service; Stage 2                             | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.088 | Call Barring (CB) Supplementary Services; Stage 2  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.090 | Unstructured Supplementary Service Data (USSD); Stage 2                                  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.091 | Explicit Call Transfer (ECT) supplementary service; Stage 2                              | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.093 | Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2          | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.094 | Follow-Me (FM); Stage 2  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.096 | Name identification supplementary services; Stage 2                                      | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.097 | Multiple Subscriber Profile (MSP) (Phase X); Stage 2                                     | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.101 | General Universal Mobile Telecommunications System (UMTS) architecture                   | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.107 | Quality of Service (QoS) concept and architecture  | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.108 | Mobile radio interface layer 3 specification, core network protocols; Stage 2            | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 23.110 | Universal Mobile Telecommunications System (UMTS) access stratum; Services and functions | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.116 | Super-Charger technical realization; Stage 2   | C4       | Yes              | 2008-12-11  | yes    |

| Type | Number | Title  | WG prime | For publication? | freeze date | frozen |
|------|--------|--|----------|------------------|-------------|--------|
| TS   | 23.119 | Gateway Location Register (GLR); Stage2  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.122 | Non-Access-Stratum (NAS) functions related to Mobile Station (MS) in idle mode                                       | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 23.135 | Multicall supplementary service; Stage 2   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.141 | Presence service; Architecture and functional description  | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.146 | Technical realization of facsimile Group 3 non-transparent   | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 23.153 | Out of band transcoder control; Stage 2  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.167 | IP Multimedia Subsystem (IMS) emergency sessions   | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.172 | Technical realization of Circuit Switched (CS) multimedia service UDI/RDI fallback and service modification; Stage 2 | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 23.198 | Open Service Access (OSA); Stage 2   | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 23.202 | Circuit switched data bearer services  | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 23.203 | Policy and charging control architecture   | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.204 | Support of Short Message Service (SMS) over generic 3GPP Internet Protocol (IP) access; Stage 2                      | S2       | Yes              | 2008-06-05  | yes    |
| TS   | 23.205 | Bearer-independent circuit-switched core network; Stage 2  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.207 | End-to-end Quality of Service (QoS) concept and architecture   | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.216 | Single Radio Voice Call Continuity (SRVCC); Stage 2  | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.218 | IP Multimedia (IM) session handling; IM call model; Stage 2  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 23.221 | Architectural requirements   | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.226 | Global text telephony (GTT); Stage 2   | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.228 | IP Multimedia Subsystem (IMS); Stage 2   | S2       | Yes              | 2008-06-05  | yes    |
| TS   | 23.231 | SIP-I based circuit-switched core network; Stage 2   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.234 | 3GPP system to Wireless Local Area Network (WLAN) interworking; System description                                   | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.236 | Intra-domain connection of Radio Access Network (RAN) nodes to multiple Core Network (CN) nodes                      | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.237 | IP Multimedia Subsystem (IMS) Service Continuity; Stage 2  | S2       | Yes              | 2008-06-05  | yes    |
| TS   | 23.240 | 3GPP Generic User Profile (GUP); Architecture (Stage 2)  | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.246 | Multimedia Broadcast/Multicast Service (MBMS); Architecture and functional description                               | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.251 | Network sharing; Architecture and functional description   | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.259 | Personal Network Management (PNM); Procedures and information flows; Stage 2   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 23.271 | Functional stage 2 description of Location Services (LCS)  | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.272 | Circuit Switched (CS) fallback in Evolved Packet System (EPS); Stage 2   | S2       | Yes              | 2008-06-05  | yes    |

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|------|--------|--|----------|------------------|-------------|--------|
| TS   | 23.278 | Customized Applications for Mobile network Enhanced Logic (CAMEL) Phase 4; Stage 2; IM CN Interworking   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.279 | Combining Circuit Switched (CS) and IP Multimedia Subsystem (IMS) services; Stage 2  | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.292 | IP Multimedia Subsystem (IMS) centralized services; Stage 2  | S2       | Yes              | 2008-06-05  | yes    |
| TS   | 23.327 | Mobility between 3GPP-Wireless Local Area Network (WLAN) interworking and 3GPP systems   | S2       | Yes              | 2008-06-05  | yes    |
| TS   | 23.333 | Multimedia Resource Function Controller (MRFC) - Multimedia Resource Function Processor (MRFP) Mp interface: Procedures descriptions   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.380 | IMS Restoration Procedures   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 23.402 | Architecture enhancements for non-3GPP accesses  | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 23.506 | TISPAN; IP Multimedia Subsystem (IMS); Stage 2 description [3GPP TS 23.228 Release 7, modified]  | S2       | Yes              | 2007-12-06  | yes    |
| TS   | 23.507 | TISPAN; Voice Call Continuity (VCC); Stage 2 [3GPP TS 23.206 Release 7, modified]  | S2       | Yes              | 2007-12-06  | yes    |
| TS   | 23.508 | TISPAN; Presence Service; Architecture and functional description [Endorsement of 3GPP TS 23.141 and OMA-AD-Presence_SIMPLE-V1_0]  | S2       | Yes              | 2008-09-18  | yes    |
| TS   | 23.509 | TISPAN; NGN Architecture to support emergency communication from citizen to authority [Endorsed document 3GPP TS 23.167, Release 7]  | S2       | Yes              | 2008-09-18  | yes    |
| TS   | 23.511 | TISPAN; XML Document Management; Architecture and functional description [OMA-AD-XDM-V1_0-20051006-C modified]   | S2       | Yes              | 2008-09-18  | yes    |
| TS   | 23.517 | TISPAN; IP Multimedia Subsystem (IMS); Functional architecture   | S2       | Yes              | 2007-12-06  | yes    |
| TS   | 23.521 | Telecommunications and Internet converged Services and Protocols for Advanced Networks (TISPAN); Support of Short Message Service (SMS) over NGN IMS subsystem; Stage 2; [Endorsement of 3GPP TS 23.204 Release 7] | S2       | Yes              | 2007-12-06  | yes    |
| TS   | 23.611 | TISPAN; XML Document Management; Architecture and functional description [OMA-AD-XDM-V1_0-20051006-C modified]   | S2       | Yes              | 2008-12-11  | yes    |
| TR   | 23.810 | Study on architecture impacts of Service Brokering   | S2       | No               | 2008-12-11  | yes    |
| TR   | 23.811 | Service level interworking for messaging services; Stage 2   | S2       | No               | 2008-12-11  | yes    |
| TR   | 23.820 | Study of IMS restoration procedures  | C4       | No               | 2008-12-11  | yes    |
| TR   | 23.828 | Earthquake and Tsunami Warning System (ETWS); Requirements and solutions; Solution placeholder   | S2       | No               | 2008-06-05  | yes    |
| TR   | 23.847 | Enhancements to IMS service functionalities facilitating multicast bearer services   | S2       | No               | 2008-12-11  | yes    |
| TR   | 23.872 | Study on architecture of IP Multimedia Subsystem (IMS) based Customized Alerting Tone (CAT)  | S2       | No               | 2008-12-11  | yes    |
| TR   | 23.882 | 3GPP system architecture evolution (SAE): Report on technical options and conclusions  | S2       | No               | 2008-12-11  | yes    |
| TR   | 23.892 | IP Multimedia Subsystem (IMS) centralized services   | S2       | No               | 2008-12-11  | yes    |
| TR   | 23.893 | Feasibility study on multimedia session continuity; Stage 2  | S2       | No               | 2008-12-11  | yes    |
| TR   | 23.903 | Redial solution for voice-video switching  | S2       | Yes              | 2008-12-11  | yes    |
| TR   | 23.919 | Direct tunnel deployment guideline   | S2       | Yes              | 2008-12-11  | yes    |

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|------|--------|---|----------|------------------|-------------|--------|
| TR   | 23.976 | Push architecture   | S2       | Yes              | 2008-12-11  | yes    |
| TR   | 23.977 | Bandwidth And Resource Savings (BARS) and speech enhancements for Circuit Switched (CS) networks          | S2       | Yes              | 2008-12-11  | yes    |
| TR   | 23.979 | 3GPP enablers for Open Mobile Alliance (OMA); Push-to-talk over Cellular (PoC) services; Stage 2          | S2       | Yes              | 2008-12-11  | yes    |
| TR   | 23.981 | Interworking aspects and migration scenarios for IPv4-based IP Multimedia Subsystem (IMS) implementations | S2       | Yes              | 2008-12-11  | yes    |
| TS   | 24.002 | GSM - UMTS Public Land Mobile Network (PLMN) Access Reference Configuration                               | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.007 | Mobile radio interface signalling layer 3; General Aspects  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.008 | Mobile radio interface Layer 3 specification; Core network protocols; Stage 3                             | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.010 | Mobile radio interface layer 3; Supplementary services specification; General aspects                     | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 24.011 | Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface                         | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.022 | Radio Link Protocol (RLP) for circuit switched bearer and teleservices                                    | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 24.030 | Location Services (LCS); Supplementary service operations; Stage 3  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 24.067 | Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3                                  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 24.072 | Call Deflection (CD) supplementary service; Stage 3   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 24.080 | Mobile radio interface layer 3 supplementary services specification; Formats and coding                   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 24.081 | Line Identification supplementary services; Stage 3   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 24.082 | Call Forwarding (CF) supplementary services; Stage 3  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 24.083 | Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 3                                    | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 24.084 | Multi Party (MPTY) supplementary service; Stage 3   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 24.085 | Closed User Group (CUG) supplementary service; Stage 3  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 24.086 | Advice of Charge (AoC) supplementary services; Stage 3  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 24.087 | User-to-User Signalling (UUS) Supplementary Service; Stage 3  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 24.088 | Call Barring (CB) supplementary service; Stage 3  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 24.090 | Unstructured Supplementary Service Data (USSD); Stage 3   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 24.091 | Explicit Call Transfer (ECT) supplementary service; Stage 3   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 24.093 | Completion of Calls to Busy Subscriber (CCBS); Stage 3  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 24.096 | Name Identification supplementary services; Stage 3   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 24.109 | Bootstrapping interface (Ub) and network application function interface (Ua); Protocol details            | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.135 | Multicall supplementary service; Stage 3  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 24.141 | Presence service using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3                        | C1       | Yes              | 2008-12-11  | yes    |



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|------|--------|--|----------|------------------|-------------|--------|
| TS   | 24.147 | Conferencing using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.167 | 3GPP IMS Management Object (MO); Stage 3   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.173 | IMS Multimedia telephony communication service and supplementary services; Stage 3   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.182 | IP Multimedia Subsystem (IMS) Customized Alerting Tones (CAT); Protocol specification  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.216 | Communication Continuity Management Object (MO)  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.229 | IP multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3                                       | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.234 | 3GPP system to Wireless Local Area Network (WLAN) interworking; WLAN User Equipment (WLAN UE) to network protocols; Stage 3  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.237 | IP Multimedia (IM) Core Network (CN) subsystem IP Multimedia Subsystem (IMS) service continuity; Stage 3   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.238 | Session Initiation Protocol (SIP) based user configuration; Stage 3  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.239 | Flexible Alerting (FA) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.247 | Messaging service using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.259 | Personal Network Management (PNM); Stage 3   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.279 | Combining Circuit Switched (CS) and IP Multimedia Subsystem (IMS) services; Stage 3  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.285 | Allowed Closed Subscriber Group (CSG) list; Management Object (MO)   | C1       | Yes              | 2009-03-06  | yes    |
| TS   | 24.286 | IP Multimedia (IM) Core Network (CN) subsystem Centralized Services (ICS); Management Object (MO)  | C1       | Yes              | 2009-12-04  | yes    |
| TS   | 24.292 | IP Multimedia (IM) Core Network (CN) subsystem Centralized Services (ICS); Stage 3   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.301 | Non-Access-Stratum (NAS) protocol for Evolved Packet System (EPS); Stage 3   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.302 | Access to the 3GPP Evolved Packet Core (EPC) via non-3GPP access networks; Stage 3   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.303 | Mobility management based on Dual-Stack Mobile IPv6; Stage 3   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.304 | Mobility management based on Mobile IPv4; User Equipment (UE) - foreign agent interface; Stage 3   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.305 | Selective Disabling of 3GPP User Equipment Capabilities (SDoUE) Management Object (MO)   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.312 | Access Network Discovery and Selection Function (ANDSF) Management Object (MO)   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.323 | 3GPP IP Multimedia Subsystem (IMS) service level tracing Management Object (MO)  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.327 | Mobility between 3GPP Wireless Local Area Network (WLAN) interworking (I-WLAN) and 3GPP systems; General Packet Radio System (GPRS) and 3GPP I-WLAN aspects; Stage 3 | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.341 | Support of SMS over IP networks; Stage 3   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.406 | TISPAN; PSTN/ISDN simulation services; Message Waiting Indication (MWI); Protocol specification  | C1       | Yes              | 2007-11-30  | yes    |
| TS   | 24.407 | TISPAN; PSTN/ISDN simulation services; Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR); Protocol specification        | C1       | Yes              | 2007-11-30  | yes    |
| TS   | 24.410 | TISPAN; NGN Signalling Control Protocol; Communication HOLD  | C1       | Yes              | 2007-       | yes    |

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|------|--------|---|----------|------------------|-------------|--------|
|      |        | (HOLD) PSTN/ISDN simulation services; Protocol specification  |          |                  | 11-30       |        |
| TS   | 24.411 | TISPAN; PSTN/ISDN simulation services: Anonymous Communication Rejection (ACR) and Communication Barring (CB); Protocol specification   | C1       | Yes              | 2007-11-30  | yes    |
| TS   | 24.423 | TISPAN; PSTN/ISDN simulation services; Extensible Markup Language (XML) Configuration Access Protocol (XCAP) over the Ut interface for Manipulating NGN PSTN/ISDN Simulation Services | C1       | Yes              | 2007-11-30  | yes    |
| TS   | 24.430 | TISPAN; Presence Service Capability; Protocol Specification [3GPP TS 24.141 V7.0.0, modified and OMA-TS-Presence_SIMPLE-V1_0, modified]   | C1       | Yes              | 2007-11-30  | yes    |
| TS   | 24.441 | TISPAN; Messaging service using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3: Protocol specifications [Endorsement of 3GPP TS 24.247 Release 6]                        | C1       | Yes              | 2008-03-07  | yes    |
| TS   | 24.447 | TISPAN; NGN IMS Supplementary Services; Advice Of Charge (AOC)  | C1       | Yes              | 2007-11-30  | yes    |
| TS   | 24.451 | TISPAN; Support of SMS and MMS over NGN IMS subsystem; Stage 3 [Endorsement of 3GPP TS 24.341 Release 7]  | C1       | Yes              | 2007-11-30  | yes    |
| TS   | 24.454 | TISPAN; PSTN/ISDN simulation services; Protocol specification Closed User Group (CUG)   | C1       | Yes              | 2007-11-30  | yes    |
| TS   | 24.503 | TISPAN; IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) Stage 3 [3GPP TS 24.229 (Release 7), modified]          | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.504 | TISPAN; PSTN/ISDN simulation services: Communication Diversion (CDIV); Protocol specification   | C1       | Yes              | 2007-11-30  | yes    |
| TS   | 24.505 | TISPAN; PSTN/ISDN simulation services: Conference (CONF); Protocol specification  | C1       | Yes              | 2007-11-30  | yes    |
| TS   | 24.508 | PSTN/ISDN simulation services Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR); Protocol specification                                  | C1       | Yes              | 2007-11-30  | yes    |
| TS   | 24.516 | TISPAN; PSTN/ISDN simulation services; Malicious Communication Identification (MCID); Protocol specification  | C1       | Yes              | 2007-11-30  | yes    |
| TS   | 24.528 | TISPAN; Common Basic Communication procedures; Protocol specification   | C1       | Yes              | 2007-11-30  | yes    |
| TS   | 24.529 | TISPAN; PSTN/ISDN simulation services: Explicit Communication Transfer (ECT); Protocol specification  | C1       | Yes              | 2007-11-30  | yes    |
| TS   | 24.604 | Communication Diversion (CDIV) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.605 | Conference (CONF) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.606 | Message Waiting Indication (MWI) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.607 | Originating Identification Presentation (OIP) and Originating Identification Restriction (OIR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification           | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.608 | Terminating Identification Presentation (TIP) and Terminating Identification Restriction (TIR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification           | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.610 | Communication HOLD (HOLD) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.611 | Anonymous Communication Rejection (ACR) and Communication Barring (CB) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification                                   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.615 | Communication Waiting (CW) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol Specification   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.616 | Malicious Communication Identification (MCID) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.623 | Extensible Markup Language (XML) Configuration Access   | C1       | Yes              | 2008-       | yes    |



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|------|--------|---|----------|------------------|-------------|--------|
|      |        | Protocol (XCAP) over the Ut interface for Manipulating Supplementary Services   |          |                  | 12-11       |        |
| TS   | 24.628 | Common Basic Communication procedures using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.629 | Explicit Communication Transfer (ECT) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.642 | Completion of Communications to Busy Subscriber (CCBS) and Completion of Communications by No Reply (CCNR) using IP Multimedia (IM) Core Network (CN) subsystem; Protocol specification | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.647 | Advice Of Charge (AOC) using IP Multimedia (IM) Core Network (CN) subsystem   | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 24.654 | Closed User Group (CUG) using IP Multimedia (IM) Core Network (CN) subsystem, Protocol Specification  | C1       | Yes              | 2008-12-11  | yes    |
| TR   | 24.801 | 3GPP System Architecture Evolution (SAE); CT WG1 aspects  | C1       | No               | 2008-12-11  | yes    |
| TR   | 24.880 | Media server control using the IP Multimedia (IM) Core Network (CN) subsystem; Stage 3  | C1       | No               | 2008-12-11  | yes    |
| TR   | 24.930 | Signalling flows for the session setup in the IP Multimedia core network Subsystem (IMS) based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); Stage 3     | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 25.101 | User Equipment (UE) radio transmission and reception (FDD)  | R4       | Yes              | 2008-12-11  | yes    |
| TS   | 25.102 | User Equipment (UE) radio transmission and reception (TDD)  | R4       | Yes              | 2008-12-11  | yes    |
| TS   | 25.104 | Base Station (BS) radio transmission and reception (FDD)  | R4       | Yes              | 2008-12-11  | yes    |
| TS   | 25.105 | Base Station (BS) radio transmission and reception (TDD)  | R4       | Yes              | 2008-12-11  | yes    |
| TS   | 25.106 | UTRA repeater radio transmission and reception  | R4       | Yes              | 2008-12-11  | yes    |
| TS   | 25.111 | Location Measurement Unit (LMU) performance specification; User Equipment (UE) positioning in UTRAN   | R4       | Yes              | 2008-12-11  | yes    |
| TS   | 25.113 | Base station (BS) and repeater electromagnetic compatibility (EMC)  | R4       | Yes              | 2008-12-11  | yes    |
| TS   | 25.123 | Requirements for support of radio resource management (TDD)   | R4       | Yes              | 2008-12-11  | yes    |
| TS   | 25.133 | Requirements for support of radio resource management (FDD)   | R4       | Yes              | 2008-12-11  | yes    |
| TS   | 25.141 | Base Station (BS) conformance testing (FDD)   | R4       | Yes              | 2008-12-11  | yes    |
| TS   | 25.142 | Base Station (BS) conformance testing (TDD)   | R4       | Yes              | 2008-12-11  | yes    |
| TS   | 25.143 | UTRA repeater conformance testing   | R4       | Yes              | 2008-12-11  | yes    |
| TS   | 25.144 | User Equipment (UE) and Mobile Station (MS) over the air performance requirements   | R4       | Yes              | 2008-12-11  | yes    |
| TS   | 25.171 | Requirements for support of Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)   | R4       | Yes              | 2008-12-11  | yes    |
| TS   | 25.201 | Physical layer - general description  | R1       | Yes              | 2008-12-11  | yes    |
| TS   | 25.202 | 7.68 Mcps Time Division Duplex (TDD) option; Overall description: Stage 2   | R1       | Yes              | 2008-12-11  | yes    |
| TS   | 25.211 | Physical channels and mapping of transport channels onto physical channels (FDD)  | R1       | Yes              | 2008-12-11  | yes    |
| TS   | 25.212 | Multiplexing and channel coding (FDD)   | R1       | Yes              | 2008-12-11  | yes    |
| TS   | 25.213 | Spreading and modulation (FDD)  | R1       | Yes              | 2008-12-11  | yes    |

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|      |        |  |          |                  | 12-11       |        |
| TS   | 25.214 | Physical layer procedures (FDD)  | R1       | Yes              | 2008-12-11  | yes    |
| TS   | 25.215 | Physical layer; Measurements (FDD)   | R1       | Yes              | 2008-12-11  | yes    |
| TS   | 25.221 | Physical channels and mapping of transport channels onto physical channels (TDD)                             | R1       | Yes              | 2008-12-11  | yes    |
| TS   | 25.222 | Multiplexing and channel coding (TDD)  | R1       | Yes              | 2008-12-11  | yes    |
| TS   | 25.223 | Spreading and modulation (TDD)   | R1       | Yes              | 2008-12-11  | yes    |
| TS   | 25.224 | Physical layer procedures (TDD)  | R1       | Yes              | 2008-12-11  | yes    |
| TS   | 25.225 | Physical layer; Measurements (TDD)   | R1       | Yes              | 2008-12-11  | yes    |
| TS   | 25.301 | Radio interface protocol architecture  | R2       | Yes              | 2008-12-11  | yes    |
| TS   | 25.302 | Services provided by the physical layer  | R2       | Yes              | 2008-12-11  | yes    |
| TS   | 25.303 | Interlayer procedures in Connected Mode  | R2       | Yes              | 2008-12-11  | yes    |
| TS   | 25.304 | User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode            | R2       | Yes              | 2008-12-11  | yes    |
| TS   | 25.305 | Stage 2 functional specification of User Equipment (UE) positioning in UTRAN                                 | R2       | Yes              | 2008-12-11  | yes    |
| TS   | 25.306 | UE Radio Access capabilities   | R2       | Yes              | 2008-12-11  | yes    |
| TS   | 25.307 | Requirements on User Equipments (UEs) supporting a release-independent frequency band                        | R2       | Yes              | 2008-12-11  | yes    |
| TS   | 25.308 | High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2                                      | R2       | Yes              | 2008-12-11  | yes    |
| TS   | 25.319 | Enhanced uplink; Overall description; Stage 2  | R2       | Yes              | 2008-12-11  | yes    |
| TS   | 25.321 | Medium Access Control (MAC) protocol specification   | R2       | Yes              | 2008-12-11  | yes    |
| TS   | 25.322 | Radio Link Control (RLC) protocol specification  | R2       | Yes              | 2008-12-11  | yes    |
| TS   | 25.323 | Packet Data Convergence Protocol (PDCP) specification  | R2       | Yes              | 2008-12-11  | yes    |
| TS   | 25.324 | Broadcast/Multicast Control (BMC)  | R2       | Yes              | 2008-12-11  | yes    |
| TS   | 25.331 | Radio Resource Control (RRC); Protocol specification   | R2       | Yes              | 2008-12-11  | yes    |
| TS   | 25.346 | Introduction of the Multimedia Broadcast/Multicast Service (MBMS) in the Radio Access Network (RAN); Stage 2 | R2       | Yes              | 2008-12-11  | yes    |
| TS   | 25.367 | Mobility procedures for Home Node B (HNB); Overall description; Stage 2                                      | R2       | Yes              | 2008-12-11  | yes    |
| TS   | 25.401 | UTRAN overall description  | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.402 | Synchronisation in UTRAN Stage 2   | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.410 | UTRAN Iu interface: General aspects and principles   | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.411 | UTRAN Iu interface layer 1   | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.412 | UTRAN Iu interface signalling transport  | R3       | Yes              | 2008-12-11  | yes    |

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| TS   | 25.413 | UTRAN Iu interface Radio Access Network Application Part (RANAP) signalling                           | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.414 | UTRAN Iu interface data transport and transport signalling  | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.415 | UTRAN Iu interface user plane protocols   | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.419 | UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)   | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.420 | UTRAN Iur interface general aspects and principles  | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.421 | UTRAN Iur interface layer 1   | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.422 | UTRAN Iur interface signalling transport  | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.423 | UTRAN Iur interface Radio Network Subsystem Application Part (RNSAP) signalling                       | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.424 | UTRAN Iur interface data transport & transport signalling for Common Transport Channel data streams   | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.425 | UTRAN Iur interface user plane protocols for Common Transport Channel data streams                    | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.426 | UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams                | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.427 | UTRAN Iub/Iur interface user plane protocol for DCH data streams                                      | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.430 | UTRAN Iub Interface: general aspects and principles   | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.431 | UTRAN Iub interface Layer 1   | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.432 | UTRAN Iub interface: signalling transport   | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.433 | UTRAN Iub interface Node B Application Part (NBAP) signalling   | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.434 | UTRAN Iub interface data transport and transport signalling for Common Transport Channel data streams | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.435 | UTRAN Iub interface user plane protocols for Common Transport Channel data streams                    | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.442 | UTRAN implementation-specific O&M transport   | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.446 | MBMS synchronisation protocol (SYNC)  | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.450 | UTRAN Iupc interface general aspects and principles   | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.451 | UTRAN Iupc interface layer 1  | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.452 | UTRAN Iupc interface: signalling transport  | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.453 | UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling                       | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.460 | UTRAN Iuant interface: General aspects and principles   | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.461 | UTRAN Iuant interface: Layer 1  | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.462 | UTRAN Iuant interface: Signalling transport   | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.466 | UTRAN Iuant interface: Application part   | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.467 | UTRAN architecture for 3G Home Node B (HNB); Stage 2  | R3       | Yes              | 2008-12-11  | yes    |

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| TS   | 25.468 | UTRAN Iuh Interface RANAP User Adaptation (RUA) signalling  | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 25.469 | UTRAN Iuh interface Home Node B (HNB) Application Part (HNBAP) signalling   | R3       | Yes              | 2008-12-11  | yes    |
| TR   | 25.816 | UMTS 900 MHz Work Item technical report   | RP       | No               | 2009-09-18  | yes    |
| TR   | 25.820 | 3G Home Node B (HNB) study item Technical Report  | R4       | No               | 2008-12-11  | yes    |
| TR   | 25.821 | UMTS 1500 MHz work item technical report  | R4       | No               | 2008-12-11  | yes    |
| TR   | 25.823 | Feasibility study on synchronized E-DCH for UTRA FDD  | R1       | No               | 2008-12-11  | yes    |
| TR   | 25.824 | Scope of HighSpeed Packet Access (HSPA) Evolution for 1.28 Mcps TDD   | R1       | No               | 2008-12-11  | yes    |
| TR   | 25.903 | Continuous connectivity for packet data users   | R1       | Yes              | 2008-12-11  | yes    |
| TR   | 25.906 | Dynamically reconfiguring a Frequency Division Duplex (FDD) User Equipment (UE) receiver to reduce power consumption when desired Quality of Service (QoS) is met | R4       | Yes              | 2008-12-11  | yes    |
| TR   | 25.912 | Feasibility study for evolved Universal Terrestrial Radio Access (UTRA) and Universal Terrestrial Radio Access Network (UTRAN)                                    | RP       | Yes              | 2008-12-11  | yes    |
| TR   | 25.913 | Requirements for Evolved UTRA (E-UTRA) and Evolved UTRAN (E-UTRAN)  | RP       | Yes              | 2008-12-11  | yes    |
| TR   | 25.914 | Measurements of radio performances for UMTS terminals in speech mode  | R4       | Yes              | 2008-12-11  | yes    |
| TR   | 25.929 | Continuous connectivity for packet data users; 1.28 Mcps TDD  | R1       | Yes              | 2009-06-04  | yes    |
| TR   | 25.931 | UTRAN functions, examples on signalling procedures  | R3       | Yes              | 2008-12-11  | yes    |
| TR   | 25.942 | Radio Frequency (RF) system scenarios   | R4       | Yes              | 2008-12-11  | yes    |
| TR   | 25.943 | Deployment aspects  | R4       | Yes              | 2008-12-11  | yes    |
| TR   | 25.951 | FDD Base Station (BS) classification  | R4       | Yes              | 2008-12-11  | yes    |
| TR   | 25.956 | Universal Terrestrial Radio Access (UTRA) repeater planning guidelines and system analysis  | R4       | Yes              | 2008-12-11  | yes    |
| TR   | 25.963 | Feasibility study on interference cancellation for UTRA FDD User Equipment (UE)   | R4       | Yes              | 2008-12-11  | yes    |
| TR   | 25.967 | Home Node B (HNB) Radio Frequency (RF) requirements (FDD)   | R4       | Yes              | 2008-12-11  | yes    |
| TR   | 25.992 | Multimedia Broadcast/Multicast Service (MBMS); UTRAN/GERAN requirements   | RP       | Yes              | 2008-12-11  | yes    |
| TR   | 25.993 | Typical examples of Radio Access Bearers (RABs) and Radio Bearers (RBs) supported by Universal Terrestrial Radio Access (UTRA)                                    | R2       | Yes              | 2008-12-11  | yes    |
| TR   | 25.996 | Spatial channel model for Multiple Input Multiple Output (MIMO) simulations   | R1       | Yes              | 2008-12-11  | yes    |
| TS   | 26.071 | Mandatory speech CODEC speech processing functions; AMR speech Codec; General description   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.073 | ANSI-C code for the Adaptive Multi Rate (AMR) speech codec  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.074 | Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec test sequences   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.077 | Minimum performance requirements for noise suppresser; Application to the Adaptive Multi-Rate (AMR) speech encoder  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.090 | Mandatory Speech Codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Transcoding functions   | S4       | Yes              | 2008-12-11  | yes    |

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| TS   | 26.091 | Mandatory Speech Codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Error concealment of lost frames                  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.092 | Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Comfort noise aspects                             | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.093 | Mandatory speech codec speech processing functions Adaptive Multi-Rate (AMR) speech codec; Source controlled rate operation                   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.094 | Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec; Voice Activity Detector (VAD)                     | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.101 | Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec frame structure                                    | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.102 | Mandatory speech codec; Adaptive Multi-Rate (AMR) speech codec; Interface to lu, Uu and Nb  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.103 | Speech codec list for GSM and UMTS  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.104 | ANSI-C code for the floating-point Adaptive Multi-Rate (AMR) speech codec   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.110 | Codec for circuit switched multimedia telephony service; General description  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.111 | Codec for circuit switched multimedia telephony service; Modifications to H.324   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.114 | IP Multimedia Subsystem (IMS); Multimedia telephony; Media handling and interaction   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.115 | Echo control for speech and multimedia services   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.131 | Terminal acoustic characteristics for telephony; Requirements   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.132 | Speech and video telephony terminal acoustic test specification   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.140 | Multimedia Messaging Service (MMS); Media formats and codecs  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.141 | IP Multimedia System (IMS) Messaging and Presence; Media formats and codecs   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.142 | Dynamic and Interactive Multimedia Scenes (DIMS)  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.171 | Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; General description                           | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.173 | ANSI-C code for the Adaptive Multi-Rate - Wideband (AMR-WB) speech codec  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.174 | Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec test sequences                                 | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.177 | Speech Enabled Services (SES); Distributed Speech Recognition (DSR) extended advanced front-end test sequences                                | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.190 | Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Transcoding functions                         | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.191 | Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Error concealment of erroneous or lost frames | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.192 | Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Comfort noise aspects                         | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.193 | Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Source controlled rate operation              | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.194 | Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Voice Activity Detector (VAD)                 | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.201 | Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; Frame structure                               | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.202 | Speech codec speech processing functions; Adaptive Multi-Rate -   | S4       | Yes              | 2008-       | yes    |

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|      |        | Wideband (AMR-WB) speech codec; Interface to lu, Uu and Nb  |          |                  | 12-11       |        |
| TS   | 26.204 | Speech codec speech processing functions; Adaptive Multi-Rate - Wideband (AMR-WB) speech codec; ANSI-C code   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.226 | Cellular text telephone modem; General description  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.230 | Cellular text telephone modem; Transmitter bit exact C-code   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.231 | Cellular text telephone modem; Minimum performance requirements   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.233 | Transparent end-to-end Packet-switched Streaming service (PSS); General description   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.234 | Transparent end-to-end Packet-switched Streaming Service (PSS); Protocols and codecs  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.235 | Packet switched conversational multimedia applications; Default codecs  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.236 | Packet switched conversational multimedia applications; Transport protocols   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.237 | IP Multimedia Subsystem (IMS) based Packet Switch Streaming (PSS) and Multimedia Broadcast/Multicast Service (MBMS) User Service; Protocols         | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.243 | ANSI-C code for the fixed-point distributed speech recognition extended advanced front-end  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.244 | Transparent end-to-end packet switched streaming service (PSS); 3GPP file format (3GP)  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.245 | Transparent end-to-end Packet switched Streaming Service (PSS); Timed text format   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.246 | Transparent end-to-end Packet-switched Streaming Service (PSS); 3GPP SMIL language profile  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.267 | eCall data transfer; In-band modem solution; General description  | S4       | Yes              | 2009-03-12  | yes    |
| TS   | 26.268 | eCall data transfer; In-band modem solution; ANSI-C reference code  | S4       | Yes              | 2009-03-12  | yes    |
| TS   | 26.269 | eCall data transfer; In-band modem solution; Conformance testing  | S4       | Yes              | 2009-06-04  | yes    |
| TS   | 26.273 | ANSI-C code for the fixed-point Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.274 | Audio codec processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) speech codec; Conformance testing                               | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.290 | Audio codec processing functions; Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Transcoding functions                                    | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.304 | Extended Adaptive Multi-Rate - Wideband (AMR-WB+) codec; Floating-point ANSI-C code   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.346 | Multimedia Broadcast/Multicast Service (MBMS); Protocols and codecs   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.401 | General audio codec audio processing functions; Enhanced aacPlus general audio codec; General description   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.402 | General audio codec audio processing functions; Enhanced aacPlus general audio codec; Additional decoder tools                                      | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.403 | General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification; Advanced Audio Coding (AAC) part       | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.404 | General audio codec audio processing functions; Enhanced aacPlus general audio codec; Enhanced aacPlus encoder Spectral Band Replication (SBR) part | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.405 | General audio codec audio processing functions; Enhanced aacPlus general audio codec; Encoder specification parametric stereo part                  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.406 | General audio codec audio processing functions; Enhanced  | S4       | Yes              | 2008-       | yes    |



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|      |        | aacPlus general audio codec; Conformance testing  |          |                  | 12-11       |        |
| TS   | 26.410 | General audio codec audio processing functions; Enhanced aacPlus general audio codec; Floating-point ANSI-C code  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.411 | General audio codec audio processing functions; Enhanced aacPlus general audio codec; Fixed-point ANSI-C code   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 26.412 | Source code for 3GP file format   | S4       | Yes              | 2008-12-11  | yes    |
| TR   | 26.902 | Video codec performance   | S4       | Yes              | 2008-12-11  | yes    |
| TR   | 26.911 | Codec(s) for Circuit-Switched (CS) multimedia telephony service; Terminal implementor's guide   | S4       | Yes              | 2008-12-11  | yes    |
| TR   | 26.914 | Multimedia telephony over IP Multimedia Subsystem (IMS); Optimization opportunities   | S4       | Yes              | 2008-12-11  | yes    |
| TR   | 26.935 | Packet Switched (PS) conversational multimedia applications; Performance characterisation of default codecs   | S4       | Yes              | 2008-12-11  | yes    |
| TR   | 26.936 | Performance characterization of 3GPP audio codecs   | S4       | Yes              | 2008-12-11  | yes    |
| TR   | 26.937 | Transparent end-to-end Packet-switched Streaming Service (PSS); Real-time Transport Protocol (RTP) usage model  | S4       | Yes              | 2008-12-11  | yes    |
| TR   | 26.943 | Recognition performance evaluations of codecs for Speech Enabled Services (SES)   | S4       | Yes              | 2008-12-11  | yes    |
| TR   | 26.944 | End-to-end multimedia services performance metrics  | S4       | Yes              | 2008-12-11  | yes    |
| TR   | 26.946 | Multimedia Broadcast/Multicast Service (MBMS) user service guidelines   | S4       | Yes              | 2008-12-11  | yes    |
| TR   | 26.967 | eCall data transfer; In-band modem solution   | S4       | Yes              | 2008-12-11  | yes    |
| TR   | 26.969 | eCall data transfer; In-band modem solution; Characterization report  | S4       | Yes              | 2009-09-24  | yes    |
| TR   | 26.975 | Performance characterization of the Adaptive Multi-Rate (AMR) speech codec  | S4       | Yes              | 2008-12-11  | yes    |
| TR   | 26.976 | Performance characterization of the Adaptive Multi-Rate Wideband (AMR-WB) speech codec  | S4       | Yes              | 2008-12-11  | yes    |
| TR   | 26.978 | Results of the Adaptive Multi-Rate (AMR) noise suppression selection phase  | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 27.001 | General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS)   | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 27.002 | Terminal Adaptation Functions (TAF) for services using asynchronous bearer capabilities   | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 27.003 | Terminal Adaptation Functions (TAF) for services using synchronous bearer capabilities  | C3       | Yes              | 2008-12-11  | 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              | 2008-12-11  | yes    |
| TS   | 27.007 | AT command set for User Equipment (UE)  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 27.010 | Terminal Equipment to User Equipment (TE-UE) multiplexer protocol   | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 27.060 | Packet domain; Mobile Station (MS) supporting Packet Switched services  | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 28.062 | Inband Tandem Free Operation (TFO) of speech codecs; Service description; Stage 3   | S4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.002 | Mobile Application Part (MAP) specification   | C4       | Yes              | 2008-12-11  | 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              | 2008-12-11  | yes    |
| TS   | 29.010 | Information element mapping between Mobile Station - Base   | C4       | Yes              | 2008-       | yes    |

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|      |             | Station System (MS - BSS) and Base Station System - Mobile-services Switching Centre (BSS - MSC); Signalling Procedures and the Mobile Application Part (MAP)             |          |                  | 12-11       |        |
| TS   | 29.011      | Signalling Interworking for supplementary services  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.013      | Signalling interworking between ISDN supplementary services; Application Service Element (ASE) and Mobile Application Part (MAP) protocols                                | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.016      | General Packet Radio Service (GPRS); Serving GPRS Support Node (SGSN) - Visitors Location Register (VLR); Gs interface network service specification                      | C1       | Yes              | 2008-12-11  | 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              | 2008-12-11  | yes    |
| TS   | 29.060      | General Packet Radio Service (GPRS); GPRS Tunnelling Protocol (GTP) across the Gn and Gp interface  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.061      | Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)  | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 29.078      | Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase X; CAMEL Application Part (CAP) specification   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.108      | Application of the Radio Access Network Application Part (RANAP) on the E-interface   | R3       | Yes              | 2008-12-11  | yes    |
| TS   | 29.109      | Generic Authentication Architecture (GAA); Zh and Zn Interfaces based on the Diameter protocol; Stage 3   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.118      | Mobility Management Entity (MME) - Visitor Location Register (VLR) SGs interface specification  | C1       | Yes              | 2008-12-11  | yes    |
| TS   | 29.119      | GPRS Tunnelling Protocol (GTP) specification for Gateway Location Register (GLR)  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.120      | Mobile Application Part (MAP) specification for Gateway Location Register (GLR)   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.161      | Interworking between the Public Land Mobile Network (PLMN) supporting packet based services with Wireless Local Area Network (WLAN) access and Packet data Networks (PDN) | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 29.162      | Interworking between the IM CN subsystem and IP networks  | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 29.163      | Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks  | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 29.164      | Interworking between the 3GPP CS domain with BICC or ISUP as signalling protocol and external SIP-I networks  | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 29.165      | Inter-IMS Network to Network Interface (NNI)  | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 29.168      | Cell Broadcast Centre interfaces with the Evolved Packet Core; Stage 3  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.198-01   | Open Service Access (OSA) Application Programming Interface (API); Part 1: Overview   | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.198-02   | Open Service Access (OSA) Application Programming Interface (API); Part 2: Common data definitions  | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.198-03   | Open Service Access (OSA) Application Programming Interface (API); Part 3: Framework  | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.198-04-1 | Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control; Subpart 1: Call control common definitions                                       | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.198-04-2 | Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control; Subpart 2: Generic call control Service Capability Feature (SCF)                 | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.198-04-3 | Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control; Subpart 3: Multi-party call control Service Capability Feature (SCF)             | CP       | Yes              | 2008-12-11  | yes    |



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| TS   | 29.198-04-4 | Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control; Subpart 4: Multimedia call control Service Capability Feature (SCF) | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.198-04-5 | Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control; Subpart 5: Conference call control Service Capability Feature (SCF) | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.198-05   | Open Service Access (OSA) Application Programming Interface (API); Part 5: User interaction Service Capability Feature (SCF)                                 | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.198-06   | Open Service Access (OSA) Application Programming Interface (API); Part 6: Mobility Service Capability Feature (SCF)   | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.198-07   | Open Service Access (OSA) Application Programming Interface (API); Part 7: Terminal capabilities Service Capability Feature (SCF)                            | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.198-08   | Open Service Access (OSA) Application Programming Interface (API); Part 8: Data session control Service Capability Feature (SCF)                             | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.198-10   | Open Service Access (OSA) Application Programming Interface (API); Part 10: Connectivity manager Service Capability Feature (SCF)                            | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.198-11   | Open Service Access (OSA) Application Programming Interface (API); Part 11: Account management Service Capability Feature (SCF)                              | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.198-12   | Open Service Access (OSA) Application Programming Interface (API); Part 12: Charging Service Capability Feature (SCF)  | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.198-13   | Open Service Access (OSA) Application Programming Interface (API); Part 13: Policy management Service Capability Feature (SCF)                               | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.198-14   | Open Service Access (OSA) Application Programming Interface (API); Part 14: Presence and Availability Management (PAM) Service Capability Feature (SCF)      | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.198-15   | Open Service Access (OSA) Application Programming Interface (API); Part 15: Multi-media Messaging (MM) Service Capability Feature (SCF)                      | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.198-16   | Open Service Access (OSA) Application Programming Interface (API); Part 16: Service broker Service Capability Feature (SCF)                                  | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-01   | Open Service Access (OSA); Parlay X web services; Part 1: Common   | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-02   | Open Service Access (OSA); Parlay X web services; Part 2: Third party call   | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-03   | Open Service Access (OSA); Parlay X web services; Part 3: Call notification  | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-04   | Open Service Access (OSA); Parlay X web services; Part 4: Short messaging  | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-05   | Open Service Access (OSA); Parlay X web services; Part 5: Multimedia messaging   | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-06   | Open Service Access (OSA); Parlay X web services; Part 6: Payment  | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-07   | Open Service Access (OSA); Parlay X web services; Part 7: Account management   | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-08   | Open Service Access (OSA); Parlay X web services; Part 8: Terminal status  | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-09   | Open Service Access (OSA); Parlay X web services; Part 9: Terminal location  | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-10   | Open Service Access (OSA); Parlay X web services; Part 10: Call handling   | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-11   | Open Service Access (OSA); Parlay X web services; Part 11: Audio call  | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-12   | Open Service Access (OSA); Parlay X web services; Part 12: Multimedia conference   | CP       | Yes              | 2008-12-11  | yes    |

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| TS   | 29.199-13 | Open Service Access (OSA); Parlay X web services; Part 13: Address list management   | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-14 | Open Service Access (OSA); Parlay X web services; Part 14: Presence  | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-15 | Open Service Access (OSA); Parlay X web services; Part 15: Message broadcast   | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-16 | Open Service Access (OSA); Parlay X web services; Part 16: Geocoding   | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-17 | Open Service Access (OSA); Parlay X web services; Part 17: Application-driven Quality of Service (QoS)   | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-18 | Open Service Access (OSA); Parlay X web services; Part 18: Device capabilities and configuration   | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-19 | Open Service Access (OSA); Parlay X web services; Part 19: Multimedia streaming control  | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-20 | Open Service Access (OSA); Parlay X web services; Part 20: Multimedia multicast session management   | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-21 | Open Service Access (OSA); Parlay X web services; Part 21: Content management  | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.199-22 | Open Service Access (OSA); Parlay X web services; Part 22: Policy  | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 29.202    | Signalling System No. 7 (SS7) signalling transport in core network; Stage 3  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.204    | Signalling System No. 7 (SS7) security gateway; Architecture, functional description and protocol details  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.205    | Application of Q.1900 series to bearer independent Circuit Switched (CS) core network architecture; Stage 3                                      | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.212    | Policy and Charging Control (PCC) over Gx/Sd reference point   | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 29.213    | Policy and charging control signalling flows and Quality of Service (QoS) parameter mapping  | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 29.214    | Policy and charging control over Rx reference point  | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 29.215    | Policy and Charging Control (PCC) over S9 reference point; Stage 3   | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 29.228    | IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Signalling flows and message contents   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.229    | Cx and Dx interfaces based on the Diameter protocol; Protocol details  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.230    | Diameter applications; 3GPP specific codes and identifiers   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.231    | Application of SIP-I Protocols to Circuit Switched (CS) core network architecture; Stage 3   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.232    | Media Gateway Controller (MGC) - Media Gateway (MGW) interface; Stage 3  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.234    | 3GPP system to Wireless Local Area Network (WLAN) interworking; Stage 3  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.235    | Interworking between SIP-I based circuit-switched core network and other networks  | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 29.240    | 3GPP Generic User Profile (GUP); Stage 3; Network  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.272    | Evolved Packet System (EPS); Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.273    | Evolved Packet System (EPS); 3GPP EPS AAA interfaces   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.274    | 3GPP Evolved Packet System (EPS); Evolved General Packet Radio Service (GPRS) Tunnelling Protocol for Control plane (GTPv2-C); Stage 3           | C4       | Yes              | 2008-12-11  | yes    |

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| TS   | 29.275 | Proxy Mobile IPv6 (PMIPv6) based Mobility and Tunneling protocols; Stage 3   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.276 | 3GPP Evolved Packet System (EPS); Optimized handover procedures and protocols between E-UTRAN access and cdma2000 HRPD Access; Stage 3   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.277 | Optimised handover procedures and protocol between EUTRAN access and non-3GPP accesses (S102); Stage 3   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.278 | Customized Applications for Mobile network Enhanced Logic (CAMEL) Phase 4; CAMEL Application Part (CAP) specification for IP Multimedia Subsystems (IMS)   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.279 | Mobile IPv4 (MIPv4) based mobility protocols; Stage 3  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.280 | Evolved Packet System (EPS); 3GPP Sv interface (MME to MSC, and SGSN to MSC) for SRVCC   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.281 | General Packet Radio System (GPRS) Tunneling Protocol User Plane (GTPv1-U)   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.282 | Mobile IPv6 vendor specific option format and usage within 3GPP  | C4       | Yes              | 2009-03-12  | yes    |
| TS   | 29.292 | Interworking between the IP Multimedia (IM) Core Network (CN) subsystem (IMS) and MSC Server for IMS Centralized Services (ICS)  | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 29.303 | Domain Name System Procedures; Stage 3   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.305 | InterWorking Function (IWF) between MAP based and Diameter based interfaces  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.311 | Service level interworking for Messaging Services  | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 29.328 | IP Multimedia (IM) Subsystem Sh interface; Signalling flows and message contents   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.329 | Sh interface based on the Diameter protocol; Protocol details  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.332 | Media Gateway Control Function (MGCF) - IM Media Gateway; Mn interface   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.333 | Multimedia Resource Function Controller (MRFC) - Multimedia Resource Function Processor (MRFP) Mp interface; Stage 3   | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.364 | IP Multimedia Subsystem (IMS) Application Server (AS) service data descriptions for AS interoperability  | C4       | Yes              | 2008-12-11  | yes    |
| TS   | 29.412 | TISPAN; Interworking; Trunking Gateway Control Procedures for interworking between NGN and external CS networks  | C3       | Yes              | 2008-05-30  | yes    |
| TS   | 29.414 | Core network Nb data transport and transport signalling  | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 29.415 | Core network Nb interface user plane protocols   | C3       | Yes              | 2008-12-11  | yes    |
| TS   | 29.421 | TISPAN; NGN Release 1; Endorsement of 3GPP TS 29.162 Interworking between IM CN Sub-system and IP networks   | C3       | Yes              | 2007-11-30  | yes    |
| TS   | 29.424 | TISPAN; H.248 Profile for controlling Trunking Media Gateways; Protocol specification  | C4       | Yes              | 2008-09-12  | yes    |
| TS   | 29.433 | TISPAN; IP Multimedia; Diameter based protocol for the interfaces between the Call Session Control Function and the User Profile Server Function/Subscription Locator Function; Signalling flows and protocol details [3GPP TS 29.228 and 29.229 modified] | C4       | Yes              | 2007-11-30  | yes    |
| TS   | 29.458 | TISPAN; SIP Transfer of IP Multimedia Service Tariff Information; Protocol specification   | C3       | Yes              | 2007-11-30  | yes    |
| TS   | 29.527 | TISPAN; Endorsement of the SIP-ISUP Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks [3GPP TS 29.163 (Release 7), modified]  | C3       | Yes              | 2007-11-30  | yes    |
| TS   | 29.658 | SIP Transfer of IP Multimedia Service Tariff Information; Protocol specification   | C3       | Yes              | 2008-12-11  | yes    |

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|------|-------------|--|----------|------------------|-------------|--------|
| TR   | 29.804      | 3GPP System Architecture Evolution (SAE): CT WG3 aspects   | C3       | No               | 2008-12-11  | yes    |
| TR   | 29.805      | InterWorking Function (IWF) between MAP based and Diameter based interfaces  | C4       | No               | 2008-12-11  | yes    |
| TR   | 29.863      | Feasibility Study for the multimedia inter-working between the IP Multimedia Core Network (CN) Subsystem (IMS) and Circuit Switched (CS) networks  | C3       | No               | 2008-12-11  | yes    |
| TR   | 29.864      | Study on IMS Application Server (AS) service data descriptions for AS interoperability   | C4       | No               | 2008-12-11  | yes    |
| TR   | 29.865      | Inter-IMS network to network interface   | C3       | No               | 2008-12-11  | yes    |
| TR   | 29.882      | Customized Alerting Tone (CAT) in 3G CS domain   | C4       | No               | 2008-12-11  | yes    |
| TR   | 29.909      | Diameter-based protocols usage and recommendations in 3GPP   | C3       | Yes              | 2008-12-11  | yes    |
| TR   | 29.994      | Recommended infrastructure measures to overcome specific Mobile Station (MS) and User Equipment (UE) faults  | C1       | Yes              | 2008-12-11  | yes    |
| TR   | 29.998-01   | Open Service Access (OSA); Application Programming Interface (API) mapping for OSA; Part 1: General issues on API mapping  | CP       | Yes              | 2008-12-11  | yes    |
| TR   | 29.998-04-1 | Open Service Access (OSA); Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 1: API to CAP Mapping  | CP       | Yes              | 2008-12-11  | yes    |
| TR   | 29.998-04-4 | Open Service Access (OSA); Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 4: Multiparty Call Control ISC                                 | CP       | Yes              | 2008-12-11  | 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                                      | CP       | Yes              | 2008-12-11  | 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                                      | CP       | Yes              | 2008-12-11  | yes    |
| TR   | 29.998-06-1 | Open Service Access (OSA); Application Programming Interface (API) Mapping for Open Service Access; Part 6: User location - user status service mapping; Subpart 1: Mapping to Mobile Application Part (MAP)     | CP       | Yes              | 2008-12-11  | yes    |
| TR   | 29.998-06-2 | Open Service Access (OSA); Application Programming Interface (API) Mapping for Open Service Access; Part 6: User location - user status service mapping; Subpart 2: Mapping to Session Initiation Protocol (SIP) | CP       | Yes              | 2008-12-11  | 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  | CP       | Yes              | 2008-12-11  | yes    |
| TS   | 31.101      | UICC-terminal interface; Physical and logical characteristics  | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 31.102      | Characteristics of the Universal Subscriber Identity Module (USIM) application   | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 31.103      | Characteristics of the IP Multimedia Services Identity Module (ISIM) application   | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 31.111      | Universal Subscriber Identity Module (USIM) Application Toolkit (USAT)   | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 31.112      | Universal Subscriber Identity Module Application Toolkit (USAT) interpreter architecture description   | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 31.113      | Universal Subscriber Identity Module Application Toolkit (USAT) interpreter byte codes   | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 31.114      | Universal Subscriber Identity Module Application Toolkit (USAT) interpreter protocol and administration  | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 31.115      | Remote APDU Structure for (U)SIM Toolkit applications  | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 31.116      | Remote APDU Structure for (U)SIM Toolkit applications  | C6       | Yes              | 2008-12-11  | yes    |

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|      |          |  |          |                  | 12-11       |        |
| TS   | 31.120   | UICC-terminal interface; Physical, electrical and logical test specification   | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 31.121   | UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification  | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 31.122   | Universal Subscriber Identity Module (USIM) conformance test specification   | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 31.124   | Mobile Equipment (ME) conformance test specification; Universal Subscriber Identity Module Application Toolkit (USAT) conformance test specification                 | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 31.130   | (U)SIM Application Programming Interface (API); (U)SIM API for Java™ Card  | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 31.131   | C-language binding to (U)SIM API   | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 31.133   | IP Multimedia Services Identity Module (ISIM) Application Programming Interface (API); ISIM API for Java Card™   | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 31.213   | Test specification for (U)SIM; Application Programming Interface (API) for Java Card™  | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 31.220   | Characteristics of the Contact Manager for 3GPP UICC applications  | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 31.221   | Contact Manager Application Programming Interface (API); Contact Manager API for Java Card   | C6       | Yes              | 2008-12-11  | yes    |
| TR   | 31.900   | SIM/USIM internal and external interworking aspects  | C6       | Yes              | 2008-12-11  | yes    |
| TR   | 31.919   | 2G/3G Java Card™ Application Programming Interface (API) based applet interworking   | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 32.101   | Telecommunication management; Principles and high level requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.102   | Telecommunication management; Architecture   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.111-1 | Telecommunication management; Fault Management; Part 1: 3G fault management requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.111-2 | Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point (IRP): Information Service (IS)  | S5       | Yes              | 2008-12-11  | 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              | 2008-12-11  | yes    |
| TS   | 32.111-5 | Telecommunication management; Fault Management; Part 5: Alarm Integration Reference Point (IRP): eXtensible Markup Language (XML) definitions                        | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.111-7 | Telecommunication management; Fault Management; Part 7: Alarm IRP SOAP Solution Set (SS)   | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.121   | Telecommunication management; Advanced Alarm Management (AAM) Integration Reference Point (IRP): Requirements  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.122   | Telecommunication management; Advanced Alarm Management (AAM) Integration Reference Point (IRP): Information Service (IS)  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.123   | Telecommunication management; Advanced Alarm Management (AAM) Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS) | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.125   | Telecommunication management; Advanced Alarm Management (AAM) Integration Reference Point (IRP): eXtensible Markup Language (XML) file format definition             | S5       | Yes              | 2009-12-10  | yes    |
| TS   | 32.140   | Telecommunication management; Subscription Management (SuM) requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.141   | Telecommunication management; Subscription Management (SuM) architecture   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.150   | Telecommunication management; Integration Reference Point (IRP) Concept and definitions  | S5       | Yes              | 2008-12-11  | yes    |



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| TS   | 32.151 | Telecommunication management; Integration Reference Point (IRP) Information Service (IS) template   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.152 | Telecommunication management; Integration Reference Point (IRP) Information Service (IS) Unified Modelling Language (UML) repertoire                                    | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.153 | Telecommunication management; Integration Reference Point (IRP) technology specific templates, rules and guidelines   | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.154 | Telecommunication management; Backward and Forward Compatibility (BFC); Concept and definitions   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.155 | Telecommunication management; Requirements template   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.171 | Telecommunication management; Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements                                | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.172 | Telecommunication management; Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): Information Service (IS)                    | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.175 | Telecommunication management; Subscription Management (SuM) Network Resource Model (NRM) Integration Reference Point (IRP): eXtensible Markup Language (XML) definition | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.240 | Telecommunication management; Charging management; Charging architecture and principles   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.250 | Telecommunication management; Charging management; Circuit Switched (CS) domain charging  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.251 | Telecommunication management; Charging management; Packet Switched (PS) domain charging   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.252 | Telecommunication management; Charging management; Wireless Local Area Network (WLAN) charging  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.260 | Telecommunication management; Charging management; IP Multimedia Subsystem (IMS) charging   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.270 | Telecommunication management; Charging management; Multimedia Messaging Service (MMS) charging  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.271 | Telecommunication management; Charging management; Location Services (LCS) charging   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.272 | Telecommunication management; Charging management; Push-to-talk over Cellular (PoC) charging  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.273 | Telecommunication management; Charging management; Multimedia Broadcast and Multicast Service (MBMS) charging   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.274 | Telecommunication management; Charging management; Short Message Service (SMS) charging   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.275 | Telecommunication management; Charging management; MultiMedia Telephony (MMTel) charging  | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.280 | Telecommunication management; Charging management; Advice of Charge (AoC) service   | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.295 | Telecommunication management; Charging management; Charging Data Record (CDR) transfer  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.296 | Telecommunication management; Charging management; Online Charging System (OCS): Applications and interfaces  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.297 | Telecommunication management; Charging management; Charging Data Record (CDR) file format and transfer  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.298 | Telecommunication management; Charging management; Charging Data Record (CDR) parameter description   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.299 | Telecommunication management; Charging management; Diameter charging applications   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.300 | Telecommunication management; Configuration Management (CM); Name convention for Managed Objects  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.301 | Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP);  | S5       | Yes              | 2008-12-11  | yes    |

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|      |        | Requirements   |          |                  |             |        |
| TS   | 32.302 | Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP); Information Service (IS)  | S5       | Yes              | 2008-12-11  | 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              | 2008-12-11  | yes    |
| TS   | 32.305 | Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP); eXtensible Markup Language (XML) definition                         | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.307 | Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP); SOAP Solution Set (SS)  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.311 | Telecommunication management; Generic Integration Reference Point (IRP) management; Requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.312 | Telecommunication management; Generic Integration Reference Point (IRP) management; Information Service (IS)   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.313 | Telecommunication management; Generic Integration Reference Point (IRP) management; Common Object Request Broker Architecture (CORBA) Solution Set (SS)                          | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.317 | Telecommunication management; Generic Integration Reference Point (IRP) management; SOAP Solution Set (SS)   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.321 | Telecommunication management; Test management Integration Reference Point (IRP); Requirements  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.322 | Telecommunication management; Test management Integration Reference Point (IRP); Information Service (IS)  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.323 | Telecommunication management; Test management Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)                             | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.325 | Telecommunication management; Test management Integration Reference Point (IRP); eXtensible Markup Language (XML) definitions  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.331 | Telecommunication management; Notification Log (NL) Integration Reference Point (IRP); Requirements  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.332 | Telecommunication management; Notification Log (NL) Integration Reference Point (IRP); Information Service (IS)  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.333 | Telecommunication management; Notification Log (NL) Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)                       | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.335 | Telecommunication management; Notification Log (NL) Integration Reference Point (IRP); eXtensible Markup Language (XML) solution definitions                                     | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.341 | Telecommunication management; File Transfer (FT) Integration Reference Point (IRP); Requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.342 | Telecommunication management; File Transfer (FT) Integration Reference Point (IRP); Information Service (IS)   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.343 | Telecommunication management; File Transfer (FT) Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)                          | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.345 | Telecommunication management; File Transfer (FT) Integration Reference Point (IRP); eXtensible Markup Language (XML) definitions   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.347 | Telecommunication management; File Transfer (FT) Integration Reference Point (IRP); SOAP Solution Set (SS)   | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.351 | Telecommunication management; Communication Surveillance (CS) Integration Reference Point (IRP); Requirements  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.352 | Telecommunication management; Communication Surveillance (CS) Integration Reference Point (IRP); Information Service (IS)  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.353 | Telecommunication management; Communication Surveillance   | S5       | Yes              | 2008-       | yes    |

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|      |        | (CS) Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)  |          |                  | 12-11       |        |
| TS   | 32.355 | Telecommunication management; Communication Surveillance (CS) Integration Reference Point (IRP); eXtensible Markup Language (XML) definitions                    | S5       | Yes              | 2009-12-10  | yes    |
| TS   | 32.361 | Telecommunication management; Entry Point (EP) Integration Reference Point (IRP); Requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.362 | Telecommunication management; Entry Point (EP) Integration Reference Point (IRP); Information Service (IS)   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.363 | Telecommunication management; Entry Point (EP) Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)            | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.365 | Telecommunication management; Entry Point (EP) Integration Reference Point (IRP); eXtensible Markup Language (XML) definitions                                   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.367 | Telecommunication management; Entry Point (EP) Integration Reference Point (IRP); SOAP Solution Set (SS)   | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.371 | Telecommunication management; Security Management concept and requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.372 | Telecommunication management; Security services for Integration Reference Point (IRP); Information Service (IS)  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.373 | Telecommunication management; Security services for Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) solution                | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.375 | Telecommunication management; Security services for Integration Reference Point (IRP); File integrity solution   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.381 | Telecommunication management; Partial Suspension of Itf-N Integration Reference Point (IRP); Requirements  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.382 | Telecommunication management; Partial Suspension of Itf-N Integration Reference Point (IRP); Information Service (IS)  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.383 | Telecommunication management; Partial Suspension of Itf-N Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS) | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.385 | Telecommunication management; Partial Suspension of Itf-N Integration Reference Point (IRP); eXtensible Markup Language (XML) file format definition             | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.391 | Telecommunication management; Delta synchronization Integration Reference Point (IRP); Requirements  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.392 | Telecommunication management; Delta synchronization Integration Reference Point (IRP); Information Service (IS)  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.393 | Telecommunication management; Delta synchronization Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)       | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.395 | Telecommunication management; Delta synchronisation Integration Reference Point (IRP); eXtensible Markup Language (XML) file format definition                   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.401 | Telecommunication management; Performance Management (PM); Concept and requirements  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.404 | Telecommunication management; Performance Management (PM); Performance measurements; Definitions and template  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.405 | Telecommunication management; Performance Management (PM); Performance measurements; Universal Terrestrial Radio Access Network (UTRAN)                          | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.406 | Telecommunication management; Performance Management (PM); Performance measurements; Core Network (CN) Packet Switched (PS) domain                               | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.407 | Telecommunication management; Performance Management (PM); Performance measurements; Core Network (CN) Circuit Switched (CS) domain; UMTS and combined UMTS/GSM  | S5       | Yes              | 2008-12-11  | yes    |



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|------|--------|---|----------|------------------|-------------|--------|
| TS   | 32.408 | Telecommunication management; Performance Management (PM); Performance measurements; Teleservice  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.409 | Telecommunication management; Performance Management (PM); Performance measurements; IP Multimedia Subsystem (IMS)  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.410 | Telecommunication management; Key Performance Indicators (KPI) for UMTS and GSM   | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.411 | Telecommunication management; Performance Management (PM) Integration Reference Point (IRP): Requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.412 | Telecommunication management; Performance Management (PM) Integration Reference Point (IRP): Information Service (IS)   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.413 | Telecommunication management; Performance Management (PM) Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)            | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.415 | Telecommunication management; Performance Management (PM) Integration Reference Point (IRP); eXtensible Markup Language (XML) definitions                                   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.417 | Telecommunication management; Performance Management (PM) Integration Reference Point (IRP); SOAP Solution Set (SS)   | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.421 | Telecommunication management; Subscriber and equipment trace; Trace concepts and requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.422 | Telecommunication management; Subscriber and equipment trace; Trace control and configuration management  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.423 | Telecommunication management; Subscriber and equipment trace; Trace data definition and management  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.432 | Telecommunication management; Performance measurement: File format definition   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.435 | Telecommunication management; Performance measurement; eXtensible Markup Language (XML) file format definition  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.436 | Telecommunication management; Performance measurement: Abstract Syntax Notation 1 (ASN.1) file format definition  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.441 | Telecommunication management; Trace Management Integration Reference Point (IRP); Requirements  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.442 | Telecommunication management; Trace Management Integration Reference Point (IRP); Information Service (IS)  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.443 | Telecommunication management; Trace Management (Trace) Integration Reference Point (IRP): Common Object Request Broker Architecture (CORBA) Solution Set (SS)               | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.445 | Telecommunication management; Trace Management Integration Reference Point (IRP): eXtensible Markup Language (XML) file format definition                                   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.450 | Telecommunication management; Key Performance Indicators (KPI) for Evolved Universal Terrestrial Radio Access Network (E-UTRAN): Definitions                                | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.451 | Telecommunication management; Key Performance Indicators (KPI) for Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Requirements                               | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.500 | Telecommunication management; Self-Organizing Networks (SON); Concepts and requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.501 | Telecommunication management; Self-configuration of network elements; Concepts and requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.502 | Telecommunication management; Self-configuration of network elements Integration Reference Point (IRP); Information Service (IS)  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.503 | Telecommunication management; Self-configuration of network elements Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS) | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.505 | Telecommunication management; Self-configuration of network elements Integration Reference Point (IRP): eXtensible Markup   | S5       | Yes              | 2009-12-10  | yes    |

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|      |        | Language (XML) file format definition   |          |                  |             |        |
| TS   | 32.511 | Telecommunication management; Automatic Neighbour Relation (ANR) management; Concepts and requirements  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.531 | Telecommunication management; Software management (SwM); Concepts and Integration Reference Point (IRP) Requirements  | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.532 | Telecommunication management; Software management (SwM); Integration Reference Point (IRP); Information Service (IS)  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.533 | Telecommunication management; Software management (SwM); Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)                                     | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.535 | Telecommunication management; Software Management Integration Reference Point (IRP); eXtensible Markup Language (XML) definitions   | S5       | Yes              |             |        |
| TS   | 32.581 | Telecommunication management; Home Node B (HNB) Operations, Administration, Maintenance and Provisioning (OAM&P); Concepts and requirements for Type 1 interface HNB to HNB Management System (HMS) | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.582 | Telecommunication management; Home Node B (HNB) Operations, Administration, Maintenance and Provisioning (OAM&P); Information model for Type 1 interface HNB to HNB Management System (HMS)         | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.583 | Telecommunication management; Home Node B (HNB) Operations, Administration, Maintenance and Provisioning (OAM&P); Procedure flows for Type 1 interface HNB to HNB Management System (HMS)           | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.584 | Telecommunication management; Home Node B (HNB) Operations, Administration, Maintenance and Provisioning (OAM&P); XML definitions for Type 1 interface HNB to HNB Management System (HMS)           | S5       | Yes              | 2009-06-04  | yes    |
| TS   | 32.600 | Telecommunication management; Configuration Management (CM); Concept and high-level requirements  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.601 | Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP); Requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.602 | Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP); Information Service (IS)   | S5       | Yes              | 2008-12-11  | 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              | 2008-12-11  | yes    |
| TS   | 32.607 | Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP); SOAP Solution Set (SS)   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.611 | Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Requirements  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.612 | Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Information Service (IS)  | S5       | Yes              | 2008-12-11  | 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              | 2008-12-11  | yes    |
| TS   | 32.615 | Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): eXtensible Markup Language (XML) file format definition                                     | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.617 | Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP): Bulk CM IRP SOAP Solution Set (SS)  | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.621 | Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP); Requirements  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.622 | Telecommunication management; Configuration Management  | S5       | Yes              | 2008-       | yes    |

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|      |        | (CM); Generic network resources Integration Reference Point (IRP); Network Resource Model (NRM)   |          |                  | 12-11       |        |
| 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              | 2008-12-11  | yes    |
| TS   | 32.625 | Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP); Bulk CM eXtensible Markup Language (XML) file format definition     | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.631 | Telecommunication management; Configuration Management (CM); Core network resources Integration Reference Point (IRP); Requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.632 | Telecommunication management; Configuration Management (CM); Core Network Resources Integration Reference Point (IRP); Network Resource Model (NRM)   | S5       | Yes              | 2008-12-11  | 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              | 2008-12-11  | yes    |
| TS   | 32.635 | Telecommunication management; Configuration Management (CM); Core network resources Integration Reference Point (IRP); Bulk CM eXtensible Markup Language (XML) file format definition        | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.641 | Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP); Requirements  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.642 | Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP); Network Resource Model (NRM)  | S5       | Yes              | 2008-12-11  | yes    |
| 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              | 2008-12-11  | yes    |
| TS   | 32.645 | Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP); Bulk CM eXtensible Markup Language (XML) file format definition       | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.661 | Telecommunication management; Configuration Management (CM); Kernel CM Requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.662 | Telecommunication management; Configuration Management (CM); Kernel CM Information Service (IS)   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.663 | Telecommunication management; Configuration Management (CM); Kernel CM Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)                 | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.665 | Telecommunication management; Configuration Management (CM); Kernel CM Integration Reference Point (IRP); eXtensible Markup Language (XML) definitions  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.667 | Telecommunication management; Configuration Management (CM); Kernel CM Integration Reference Point (IRP); SOAP Solution Set (SS)  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.671 | Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP); Requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.672 | Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP); Information Service (IS)   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.673 | Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)          | S5       | Yes              | 2008-12-11  | yes    |

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|------|--------|---|----------|------------------|-------------|--------|
| TS   | 32.675 | Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP); Bulk CM eXtensible Markup Language (XML) file format definition  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.690 | Telecommunication management; Inventory Management (IM); Requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.691 | Telecommunication management; Inventory Management (IM) network resources Integration Reference Point (IRP); Requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.692 | Telecommunication management; Inventory Management (IM) network resources Integration Reference Point (IRP); Network Resource Model (NRM)   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.695 | Telecommunication management; Inventory Management (IM) network resources Integration Reference Point (IRP); Bulk Configuration Management (CM) eXtensible Markup Language (XML) file format definition                 | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.711 | Telecommunication management; Configuration Management (CM); Transport Network (TN) interface Network Resource Model (NRM) Integration Reference Point (IRP); Requirements  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.712 | Telecommunication management; Configuration Management (CM); Transport Network (TN) interface Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS)                                  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.713 | Telecommunication management; Configuration Management (CM); Transport Network (TN) Network Resource Model (NRM) Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS) | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.715 | Telecommunication management; Configuration Management (CM) Transport Network (TN); Network Resource Model (NRM) Integration Reference Point (IRP); Bulk CM eXtensible Markup Language (XML) file format definition     | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.721 | Telecommunication management; Configuration Management (CM); Repeater network resources Integration Reference Point (IRP); Requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.722 | Telecommunication management; Configuration Management (CM); Repeater network resources Integration Reference Point (IRP); information Service (IS)   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.723 | Telecommunication management; Configuration Management (CM); Repeater network resources Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)                          | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.725 | Telecommunication management; Configuration Management (CM); Repeater network resources Integration Reference Point (IRP); Bulk CM eXtensible Markup Language (XML) file format definition                              | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.731 | Telecommunication management; IP Multimedia Subsystem (IMS) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.732 | Telecommunication management; IP Multimedia Subsystem (IMS) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS)  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.733 | Telecommunication management; IP Multimedia Subsystem (IMS) Network Resource Model (NRM) Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)                         | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.735 | Telecommunication management; IP Multimedia Subsystem (IMS) Network Resource Model (NRM) Integration Reference Point (IRP); Bulk CM eXtensible Markup Language (XML) file format definition                             | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.741 | Telecommunication management; Configuration Management (CM); Signalling Transport Network (STN) interface Network Resource Model (NRM) Integration Reference Point (IRP); Requirements                                  | S5       | Yes              | 2008-12-11  | yes    |

| Type | Number | Title   | WG prime | For publication? | freeze date | frozen |
|------|--------|---|----------|------------------|-------------|--------|
| TS   | 32.742 | Telecommunication management; Configuration Management (CM); Signalling Transport Network (STN) interface Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS)  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.743 | Telecommunication management; Configuration Management (CM); Signalling Transport Network (STN) interface Network Resource Model (NRM) Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS) | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.745 | Telecommunication management; Configuration Management (CM); Signalling Transport Network (STN) interface Network Resource Model (NRM) Integration Reference Point (IRP); Bulk CM eXtensible Markup Language (XML) file format definition     | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.751 | Telecommunication management; Evolved Packet Core (EPC) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements  | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.752 | Telecommunication management; Evolved Packet Core (EPC) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS)  | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.753 | Telecommunication management; Evolved Packet Core (EPC) Network Resource Model (NRM) Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)   | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.755 | Telecommunication management; Evolved Packet Core (EPC) Network Resource Model (NRM) Integration Reference Point (IRP); eXtensible Markup Language (XML) definitions  | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.761 | Telecommunication management; Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP); Requirements   | S5       | Yes              | 2008-12-11  | yes    |
| TS   | 32.762 | Telecommunication management; Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS)   | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.763 | Telecommunication management; Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)                | S5       | Yes              | 2009-03-12  | yes    |
| TS   | 32.765 | Telecommunication management; Evolved Universal Terrestrial Radio Access Network (E-UTRAN) Network Resource Model (NRM) Integration Reference Point (IRP); eXtensible Markup Language (XML) definitions                                       | S5       | Yes              | 2009-03-12  | yes    |
| TR   | 32.808 | Telecommunication management; Study of Common Profile Storage (CPS) Framework of User Data for network services and management  | S5       | No               | 2008-12-11  | yes    |
| TR   | 32.816 | Telecommunication management; Study on management of Evolved Universal Terrestrial Radio Access Network (E-UTRAN) and Evolved Packet Core (EPC)   | S5       | No               | 2008-12-11  | yes    |
| TR   | 32.818 | Telecommunication management; Study on 3GPP SA5 / MTOSI XML harmonization   | S5       | No               | 2008-12-11  | yes    |
| TR   | 32.819 | Telecommunications management; Element management layer - Operation System Function (E-OSF) definition  | S5       | No               | 2008-12-11  | yes    |
| TR   | 32.820 | Telecommunication management; Study on charging management; 3GPP Evolved Packet Core (EPC): Charging aspects  | S5       | No               | 2008-12-11  | yes    |
| TS   | 33.102 | 3G security; Security architecture  | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 33.105 | 3G Security; Cryptographic algorithm requirements   | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 33.106 | 3G security; Lawful interception requirements   | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 33.107 | 3G security; Lawful interception architecture and functions   | S3       | Yes              | 2008-12-11  | yes    |



| Type | Number   | Title   | WG prime | For publication? | freeze date | frozen |
|------|----------|---|----------|------------------|-------------|--------|
|      |          |   |          |                  | 12-11       |        |
| TS   | 33.108   | 3G security; Handover interface for Lawful Interception (LI)  | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 33.110   | Key establishment between a Universal Integrated Circuit Card (UICC) and a terminal   | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 33.141   | Presence service; Security  | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 33.203   | 3G security; Access security for IP-based services  | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 33.204   | 3G Security; Network Domain Security (NDS); Transaction Capabilities Application Part (TCAP) user security  | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 33.210   | 3G security; Network Domain Security (NDS); IP network layer security   | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 33.220   | Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA)   | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 33.221   | Generic Authentication Architecture (GAA); Support for subscriber certificates  | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 33.222   | Generic Authentication Architecture (GAA); Access to network application functions using Hypertext Transfer Protocol over Transport Layer Security (HTTPS)  | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 33.223   | Generic Authentication Architecture (GAA); Generic Bootstrapping Architecture (GBA) Push function   | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 33.234   | 3G security; Wireless Local Area Network (WLAN) interworking security   | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 33.246   | 3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS)  | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 33.259   | Key establishment between a UICC hosting device and a remote device   | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 33.310   | Network Domain Security (NDS); Authentication Framework (AF)  | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 33.401   | 3GPP System Architecture Evolution (SAE); Security architecture   | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 33.402   | 3GPP System Architecture Evolution (SAE); Security aspects of non-3GPP accesses   | S3       | Yes              | 2008-12-11  | yes    |
| TR   | 33.820   | Security of Home Node B (HNB) / Home evolved Node B (HeNB)  | S3       | No               | 2009-03-12  | yes    |
| TR   | 33.821   | Rationale and track of security decisions in Long Term Evolution (LTE) RAN / 3GPP System Architecture Evolution (SAE)   | S3       | No               | 2009-03-12  | yes    |
| TR   | 33.822   | Security aspects for inter-access mobility between non 3GPP and 3GPP access network   | S3       | No               | 2008-12-11  | yes    |
| TR   | 33.905   | Recommendations for Trusted Open Platforms  | S3       | Yes              | 2008-12-11  | yes    |
| TR   | 33.919   | 3G Security; Generic Authentication Architecture (GAA); System description  | S3       | Yes              | 2008-12-11  | yes    |
| TR   | 33.980   | Liberty Alliance and 3GPP security interworking; Interworking of Liberty Alliance Identity Federation Framework (ID-FF), Identity Web Services Framework (ID-WSF) and Generic Authentication Architecture (GAA) | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 34.108   | Common test environments for User Equipment (UE); Conformance testing   | R5       | Yes              | 2008-12-11  | yes    |
| TS   | 34.109   | Terminal logical test interface; Special conformance testing functions  | R2       | Yes              | 2008-12-11  | yes    |
| TS   | 34.114   | User Equipment (UE) / Mobile Station (MS) Over The Air (OTA) antenna performance; Conformance testing   | R5       | Yes              | 2008-12-11  | yes    |
| TS   | 34.121-1 | User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification  | R5       | Yes              | 2008-12-11  | yes    |
| TS   | 34.121-2 | User Equipment (UE) conformance specification; Radio  | R5       | Yes              | 2008-       | yes    |

| Type | Number   | Title  | WG prime | For publication? | freeze date | frozen |
|------|----------|--|----------|------------------|-------------|--------|
|      |          | transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)   |          |                  | 12-11       |        |
| TS   | 34.122   | Terminal conformance specification; Radio transmission and reception (TDD)   | R5       | Yes              | 2008-12-11  | yes    |
| TS   | 34.123-1 | User Equipment (UE) conformance specification; Part 1: Protocol conformance specification  | R5       | Yes              | 2008-12-11  | yes    |
| TS   | 34.123-2 | User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) proforma specification   | R5       | Yes              | 2008-12-11  | yes    |
| TS   | 34.123-3 | User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)   | R5       | Yes              | 2008-12-11  | yes    |
| TS   | 34.124   | Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment  | R4       | Yes              | 2008-12-11  | yes    |
| TS   | 34.131   | Test Specification for C-language binding to (Universal) Subscriber Interface Module ((U)SIM) Application Programming Interface (API)  | C6       | Yes              | 2008-12-11  | yes    |
| TS   | 34.171   | Terminal conformance specification; Assisted Global Positioning System (A-GPS); Frequency Division Duplex (FDD)  | R5       | Yes              | 2008-12-11  | yes    |
| TS   | 34.229-1 | Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification                       | R5       | Yes              | 2008-12-11  | yes    |
| TS   | 34.229-2 | Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) specification | R5       | Yes              | 2008-12-11  | yes    |
| TS   | 34.229-3 | Internet Protocol (IP) multimedia call control protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP); User Equipment (UE) conformance specification; Part 3: Abstract test suite (ATS)                                | R5       | Yes              | 2008-12-11  | yes    |
| TR   | 34.902   | Derivation of test tolerances for multi-cell Radio Resource Management (RRM) conformance tests   | R5       | Yes              | 2011-09-16  | yes    |
| TR   | 34.926   | Electromagnetic compatibility (EMC); Table of international requirements for mobile terminals and ancillary equipment  | R4       | Yes              | 2008-12-11  | yes    |
| TS   | 35.201   | 3G Security; Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specification   | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 35.202   | 3G Security; Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi specification  | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 35.203   | 3G Security; Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data   | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 35.204   | 3G Security; Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data  | S3       | Yes              | 2008-12-11  | 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              | 2008-12-11  | 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              | 2008-12-11  | yes    |
| TS   | 35.207   | 3G Security; Specification of the MILENAGE algorithm set: An example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 3: Implementors' test data   | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 35.208   | 3G Security; Specification of the MILENAGE algorithm set: An example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 4: Design conformance test data                                      | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 35.215   | Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 1: UEA2 and UIA2 specifications   | S3       | Yes              | 2008-12-11  | yes    |

| Type | Number | Title   | WG prime | For publication? | freeze date | frozen |
|------|--------|---|----------|------------------|-------------|--------|
| TS   | 35.216 | Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 2: SNOW 3G specification   | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 35.217 | Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 3: Implementors' test data   | S3       | Yes              | 2008-12-11  | yes    |
| TS   | 35.218 | Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 4: Design conformance test data  | S3       | Yes              | 2008-12-11  | 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              | 2008-12-11  | yes    |
| TR   | 35.919 | Specification of the 3GPP Confidentiality and Integrity Algorithms UEA2 & UIA2; Document 5: Design and evaluation report  | S3       | Yes              | 2008-12-11  | yes    |



## Annex A (informative): Change history

| Change history |                              |        |            |                              |   |
|----------------|------------------------------|--------|------------|------------------------------|---|
| TSG SA#        | Version                      | CR     | Tdoc SA    | New Version                  | Subject/Comment   |
| SP-12          | 3GPP TS 21.103 version 0.0.0 | -      | SP-010275  | 3GPP TS 21.103 version 0.1.0 | First draft   |
|                | 0.1.0                        |        | SP-010382  | 1.0.0                        | table of specs revised  |
| SP-13          | 1.0.0                        |        | SP-010418  | 1.1.0                        | table of specs revised  |
| SP-15          | 1.1.0                        |        | SP-020095  | 1.2.0                        | table of specs revised; columns to show freeze status added   |
| SP-15          | 1.2.0                        |        | SP-020202  | 2.0.0                        | table of specs revised  |
| SP-16          | 2.0.0                        |        | SP-020271  | 2.1.0                        | table of specs revised  |
|                | 2.1.0                        |        | SP-020398  | 2.2.0                        | table of specs revised  |
|                | 2.2.0                        |        | SP-020410  |                              | table of specs revised; unknown freeze target dates blanked   |
|                |                              |        |            | 5.0.0                        | approved  |
| SP-17          | 5.0.0                        | 001 r1 | SP-020628  | 5.1.0                        | updates lists of specs, editorial corrections to titles of specs  |
| SP-18          | 5.1.0                        | 002 r1 | SP-020831  | 5.2.0                        | Correction to list of specs, editorial corrections to titles of specs   |
| SP-19          | 5.2.0                        | 003 r1 | SP-030077  | 5.3.0                        | Correction to list of specs, editorial corrections to titles of specs   |
| SP-20          | 3GPP TS 21.103 version 5.3.0 | 004    | SP-030229  | 3GPP TS 21.101 version 5.4.0 | Correction to list of specs   |
|                |                              |        | SP-030235  |                              | Renumber from 21.103 to 21.101  |
| SP-22          | 5.4.0                        | 017    | SP-030574  | 5.5.0                        | Correction to list of specs, editorial corrections to spec titles   |
| SP-23          | 5.5.0                        | 020 r2 | SP-040221  | 5.6.0                        | Corrections to list of specifications   |
| SP-24          | 5.6.0                        | 021 r1 | SP-040358  | 5.7.0                        | Corrections to list of specifications   |
| SP-26          | 5.7.0                        | 025 r1 | SP-040880  | 6.0.0                        | Corrections to list of specifications   |
| SP-27          | 6.0.0                        | 029    | SP-050126  | 6.1.0                        | Corrections to list of specifications   |
| SP-28          | 6.1.0                        | 031 r1 | SP-050356  | 6.2.0                        | Corrections to list of specifications   |
| SP-29          | 6.2.0                        | 032    | SP-050470  | 6.3.0                        | Change instances of Release 5 to Release 6  |
|                |                              | 033    | SP-050462  |                              | Corrections to list of specifications   |
| SP-30          | 6.3.0                        | 034 r1 | SP-050845  | 6.4.0                        | Corrections to list of specifications   |
| post SP-31     | 6.4.0                        |        |            | 6.4.1                        | Correction to title of reference to 21.900. Correction to spec list table entries for 23.125 and 32.251 to show that they are intended for SDO publication. |
| post SP-31     | 6.4.1                        |        |            | 6.4.2                        | Corrects cover date.  |
| SP-34          | 6.4.2                        | 038    | SP-060901  | 6.5.0                        | Correction to list of Specs and minor editorials  |
| SP-35          | 6.5.0                        | 038    | SP-070188  | 6.6.0                        | Corrections to list of specifications   |
| SP-36          | 6.6.0                        | 041    | SP-070344  | 6.7.0                        | Corrections to list of specifications   |
| SP-37          | 6.7.0                        | 042    | SP-070519  | 7.0.0                        | Upgrade to Rel-7  |
| SP-38          | 7.0.0                        | 047    | SP-070770  | 7.1.0                        | Corrections to list of specifications   |
|                |                              | 052    |            |                              | Update of informative text  |
| SP-40          | 7.1.0                        | 053    | SP-080435  | 7.2.0                        | Corrections to list of specifications   |
| SP-42          | 7.2.0                        | 054 r1 | SP-080722  | 7.3.0                        | Corrections to list of specifications   |
| SP-43          | 7.3.0                        | 057 r1 | SP-090033  | 8.0.0                        | List of Rel-8 specifications  |
| SP-44          | 8.0.0                        | 058 r1 | SP-090382  | 8.1.0                        | Corrections to list of specifications   |
| SP-46          | 8.1.0                        | 064 r1 | SP-090695  | 8.2.0                        | Corrections to list of specifications   |
| SP-52          | 8.2.0                        | 066    | SP-110298  | 8.3.0                        | Correction to list of specs   |
| SP-55          | 8.3.0                        | 069 r1 | SP-12-0114 | 8.4.0                        | Changes to list of Specs: UTRAN systems   |

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## History

| <b>Document history</b> |              |             |
|-------------------------|--------------|-------------|
| V8.0.0                  | March 2009   | Publication |
| V8.1.0                  | June 2009    | Publication |
| V8.2.0                  | January 2010 | Publication |
| V8.3.0                  | July 2011    | Publication |
| V8.4.0                  | March 2012   | Publication |