

Technical Specification Group Core Network
Technical Specification Group Radio Access Network
Technical Specification Group Terminals
Meeting #18, New Orleans (USA), December 2002

Tdoc NP-020644
Tdoc RP-020871
Tdoc TP-020312

Source: **MCC**
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Title: **Spec numbers and titles**
Document for: **information**

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

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 A "w" indicates that the Release version did at one time exist, or was anticipated, but that it has been withdrawn or stopped.

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 Most have been withdrawn.

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progeny of each spec, enabling the reader to trace the origins of any given spec and to determine successors to specs superseded or not propagated to newer Releases.

| Number | Title | WG | Ph1 | Ph2 | R96 | R97 | R98 | R99 | Rel-4 | Rel-5 | Rel-6 | active |
|--------|--|----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 02.02 | Bearer Services (BS) Supported by a GSM Public Land Mobile Network (PLMN) | S1 | Y | Y | Y | Y | Y | w | | | | yes |
| 02.03 | Teleservices Supported by a GSM Public Land Mobile Network (PLMN) | S1 | Y | Y | Y | Y | Y | w | | | | yes |
| 02.04 | General on Supplementary Services | S1 | Y | Y | Y | Y | Y | w | | | | yes |
| 02.05 | Simultaneous and Alternate Use of Services | - | w | | | | | | | | | |
| 02.06 | Types of Mobile Stations (MS) | S1 | Y | Y | Y | Y | Y | | | | | yes |
| 02.07 | Mobile Station (MS) Features | S1 | Y | Y | Y | Y | Y | w | | | | yes |
| 02.08 | Quality of Service (QoS) / GSM system performance | - | w | w | | | | | | | | |
| 02.09 | Security aspects | S3 | Y | Y | Y | Y | Y | Y | | | | yes |
| 02.10 | Provision of Telecommunication Services | | w | | | | | | | | | |
| 02.11 | Service Accessibility | S1 | Y | Y | Y | Y | Y | | | | | yes |
| 02.12 | Licensing | | w | | | | | | | | | |
| 02.13 | Subscription to the Services of a GSM PLMN | | w | | | | | | | | | |
| 02.14 | Service Directory | | w | | | | | | | | | |
| 02.15 | Circulation of mobile stations | | w | | | | | | | | | |
| 02.16 | International Mobile Station Equipment Identities (IMEI) | S1 | Y | Y | Y | Y | Y | | | | | yes |
| 02.17 | Subscriber Identity Module (SIM); Functional characteristics | T3 | Y | Y | Y | Y | Y | Y | | | | yes |
| 02.18 | Interworking with non-GSM applications on the SIM to be accessed via the GSM network | | | | w | | | | | | | |
| 02.19 | Subscriber Identity Module Application Programming Interface (SIM API); Stage 1 | T3 | | | | | Y | Y | | | | yes |
| 02.20 | Collection charges | S1 | Y | | | | | | | | | yes |
| 02.21 | Transferred account procedure and billing information | S2 | w | | | | | | | | | |
| 02.22 | Stage 1 for personalisation of GSM ME | S1 | | | Y | Y | Y | | | | | yes |
| 02.24 | Description of Charge Advice Information (CAI) | S1 | | Y | Y | Y | Y | | | | | yes |
| 02.25 | GSM - DCS roaming: Requirements and Stage 1 descriptions | | | | w | | | | | | | |
| 02.26 | Operation of multi-band GSM/DCS 1800 network by a single operator | | | | w | | | | | | | |
| 02.27 | DECT access to GSM networks | | | | w | | | | | | | |
| 02.28 | UPT phase 1 | | | | w | | | | | | | |
| 02.29 | Inter operation with UPT phase 2 | | | | w | | | | | | | |
| 02.30 | Man-machine Interface (MMI) of the Mobile Station (MS) | S1 | Y | Y | Y | Y | Y | | | | | yes |
| 02.31 | Fraud Information Gathering System (FIGS); Service description; Stage 1 | S3 | | | w | w | Y | Y | | | | yes |
| 02.32 | Immediate Service Termination (IST); Service description; Stage 1 | S3 | | | | | Y | w | | | | yes |
| 02.33 | Lawful Interception (LI); Stage 1 | S3 | | | w | w | Y | Y | | | | yes |

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|--------|---|----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 02.34 | High Speed Circuit Switched Data (HSCSD); Stage 1 | S1 | | | Y | Y | Y | w | | | | yes |
| 02.35 | Universal access to freephone numbers; Stage 1 | | | | w | | | | | | | |
| 02.36 | Premium rate services; Stage 1 | | | | w | | | | | | | |
| 02.37 | ISDN based DECT/GSM Interworking | | | | w | | | | | | | |
| 02.38 | SIM application toolkit (SAT); Stage 1 | S1 | | | w | w | w | w | | | | |
| 02.40 | Procedures for Call Progress Indications | S1 | Y | Y | Y | Y | Y | w | | | | yes |
| 02.41 | Operator Determined Barring | S1 | | Y | Y | Y | Y | | | | | yes |
| 02.42 | Network Identity and Timezone (NITZ); Service Description, Stage 1 | S1 | | | Y | Y | Y | w | | | | yes |
| 02.43 | Support of Localised Service Area (SoLSA); Service description; Stage 1 | S1 | | | | | Y | Y | | | | yes |
| 02.48 | Security mechanisms for the SIM Application Toolkit; Stage 1 | T3 | | | | Y | Y | Y | | | | yes |
| 02.53 | Tandem Free Operation (TFO); Service description; Stage 1 | S4 | | | w | Y | Y | Y | | | | yes |
| 02.56 | GSM Cordless Telephony System (CTS), Phase 1; Service description; Stage 1 | S1 | | | | | Y | Y | | | | yes |
| 02.57 | Mobile Station Application Execution Environment (MExE) Service description Stage 1 | S1 | | | | | Y | w | | | | yes |
| 02.60 | General Packet Radio Service Stage 1 Description | S1 | | | w | Y | Y | w | | | | yes |
| 02.63 | Packet Data on Signalling channels Service (PDS); Stage 1 | S1 | | | Y | Y | Y | | | | | yes |
| 02.66 | Support of Mobile Number Portability (MNP); Service description; Stage 1 | S1 | | | w | | Y | | | | | yes |
| 02.67 | Enhanced Multi-Level Precedence and Pre-emption Service (eMLPP); Stage 1 | S1 | | | Y | Y | Y | | | | | yes |
| 02.68 | Voice Group Call Service (VGCS); Stage 1 | S1 | | | Y | Y | Y | Y | | | | yes |
| 02.69 | Voice Broadcast Service (VBS); Stage 1 | S1 | | | Y | Y | Y | Y | | | | yes |
| 02.72 | Call Deflection Service description, Stage 1 | S1 | | | w | | Y | | | | | yes |
| 02.73 | Malicious Call Identification (MCID) - stage 1 | | | | w | | | | | | | |
| 02.76 | Noise Suppression for the AMR | S4 | | | | | | Y | | | | yes |
| 02.77 | Emergency call TS12 with additional data transfer | | | | w | | | | | | | |
| 02.78 | Customized Applications for Mobile network Enhanced Logic (CAMEL); Service definition (Stage 1) | S1 | | | Y | Y | Y | w | | | | yes |
| 02.79 | Support of Optimal Routeing (SOR); Service definition (Stage 1) | S1 | | | Y | Y | Y | | | | | yes |
| 02.81 | Line Identification Supplementary Services; Stage 1 | S1 | | Y | Y | Y | Y | | | | | yes |
| 02.82 | Call Forwarding (CF) Supplementary Services; Stage 1 | S1 | Y | Y | Y | Y | Y | w | | | | yes |

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|--------|--|----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 02.83 | Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 1 | S1 | | Y | Y | Y | Y | | | | | yes |
| 02.84 | MultiParty (MPTY) Supplementary Services; Stage 1 | S1 | | Y | Y | Y | Y | | | | | yes |
| 02.85 | Closed User Group (CUG) Supplementary Services; Stage 1 | S1 | | Y | Y | Y | Y | | | | | yes |
| 02.86 | Advice of Charge (AoC) Supplementary Services; Stage 1 | S1 | | Y | Y | Y | Y | | | | | yes |
| 02.87 | User-to-User Signalling (UUS) Service Description; Stage 1 | S1 | | | w | | Y | | | | | yes |
| 02.88 | Call Barring (CB) Supplementary Services; Stage 1 | S1 | Y | Y | Y | Y | Y | | | | | yes |
| 02.90 | Unstructured Supplementary Service Data (USSD); Stage 1 | S1 | | Y | Y | Y | Y | w | | | | yes |
| 02.91 | Explicit Call Transfer (ECT) | S1 | | | Y | Y | Y | | | | | yes |
| 02.92 | Call Forward Enhancements (CFE) - Stage 1 description | | | | w | | | | | | | |
| 02.93 | Completion of Calls to Busy Subscriber (CCBS) Service Description; Stage 1 | S1 | | | w | Y | Y | | | | | yes |
| 02.94 | Follow Me Service description; Stage 1 | S1 | | | | | | Y | | | | yes |
| 02.95 | Support of Private Numbering Plan (SPNP); Service description; Stage 1 | S1 | | | Y | Y | Y | Y | | | | yes |
| 02.96 | Name Identification Supplementary Services; Stage 1 | S1 | | | w | Y | Y | | | | | yes |
| 02.97 | Multiple Subscriber Profile (MSP) Service description, Stage 1 | S1 | | | w | | Y | | | | | yes |
| 02.98 | New barring services; Stage 1 | | | | w | | | | | | | |
| 02.99 | Direct Subscriber Access and Restriction (DSAR); Stage1 | | | | w | | | | | | | |
| 03.01 | Network Functions | S2 | Y | Y | Y | Y | Y | w | | | | yes |
| 03.02 | Network Architecture | S2 | Y | Y | Y | Y | Y | | | | | yes |
| 03.03 | Numbering, Addressing and Identification | N4 | Y | Y | Y | Y | Y | | | | | yes |
| 03.04 | Signalling Requirements Relating to Routing of Calls to Mobile Subscribers | N4 | Y | Y | w | w | | | | | | yes |
| 03.05 | Technical performance objectives | NP | Y | Y | Y | Y | Y | Y | | | | yes |
| 03.07 | Restoration Procedures | N4 | Y | Y | Y | Y | Y | | | | | yes |
| 03.08 | Organization of Subscriber Data | N4 | Y | Y | Y | Y | Y | | | | | yes |
| 03.09 | Handover Procedures | N1 | Y | Y | Y | Y | Y | | | | | yes |
| 03.10 | GSM Public Land Mobile Network (PLMN) Connection Types | N3 | Y | Y | Y | Y | Y | Y | | | | yes |
| 03.11 | Technical Realization of Supplementary Services - General Aspects | N4 | Y | Y | Y | Y | Y | | | | | yes |
| 03.12 | Location Registration Procedures | N4 | Y | Y | Y | Y | Y | | | | | yes |
| 03.13 | Discontinuous Reception (DRX) in the GSM System | G1 | Y | Y | Y | Y | Y | Y | | | | yes |
| 03.14 | Support of Dual Tone Multi-Frequency Signalling (DTMF) via the GSM System | N1 | Y | Y | Y | Y | Y | | | | | yes |

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|--------|---|----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 03.15 | Technical Realization of Operator Determined Barring | N4 | | Y | Y | Y | Y | | | | | yes |
| 03.16 | Subscriber Data Management | N4 | | Y | Y | Y | Y | | | | | yes |
| 03.17 | Technical realization of Exchange of Network Capabilities Information (ENCI); Stage 2 | | | | w | | | | | | | |
| 03.18 | Basic Call Handling | N4 | | | Y | Y | Y | | | | | yes |
| 03.19 | GSM API for SIM toolkit stage 2 | T3 | | | | | Y | Y | | | | yes |
| 03.20 | Security-related Network Functions | S3 | Y | Y | Y | Y | Y | Y | | | | yes |
| 03.22 | Functions related to Mobile Station (MS) in idle mode and group receive mode | G1 | | Y | Y | Y | Y | Y | | | | yes |
| 03.26 | Multiband operation of GSM/DCS 1800 by a single operator | G1 | | Y | Y | Y | Y | Y | | | | yes |
| 03.30 | Radio Network Planning Aspects | GP | | Y | Y | Y | Y | Y | | | | yes |
| 03.31 | Fraud Information Gathering System (FIGS); Service description; Stage 2 | S3 | | | | | Y | Y | | | | yes |
| 03.32 | Universal Geographical Area Description (GAD) | S2 | | | Y | Y | Y | | | | | yes |
| 03.33 | Lawful Interception; Stage 2 | S3 | | | | | Y | Y | | | | yes |
| 03.34 | High Speed Circuit Switched Data (HSCSD); Stage 2 | N1 | | | Y | Y | Y | | | | | yes |
| 03.35 | Immediate Service Termination (IST); Stage 2 | S3 | | | | | Y | w | | | | yes |
| 03.36 | Premium rate services - stage 2 | | | | w | | | | | | | |
| 03.38 | Alphabets and language-specific information | T2 | | Y | Y | Y | Y | | | | | yes |
| 03.39 | Digital Cellular Telecommunications System (Phase 2) Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs) | T2 | | w | w | w | w | | | | | |
| 03.40 | Technical Realization of the Short Message Service (SMS) Point-to-point (PP) | T2 | Y | Y | Y | Y | Y | | | | | yes |
| 03.41 | Technical Realization of Short Message Service Cell Broadcast (SMSCB) | T2 | Y | Y | Y | Y | Y | | | | | yes |
| 03.42 | SMS Compression | T2 | | | Y | Y | Y | | | | | yes |
| 03.43 | Support of Videotex | T2 | Y | Y | Y | Y | Y | w | | | | yes |
| 03.44 | Support of Teletex in a GSM Public Land Mobile Network (PLMN) | T2 | Y | Y | Y | Y | Y | w | | | | yes |
| 03.45 | Technical Realization of Facsimile Group 3 Service - transparent | N3 | Y | Y | Y | Y | Y | Y | | | | yes |
| 03.46 | Technical Realization of Facsimile Group 3 Service - non transparent | N3 | Y | Y | Y | Y | Y | Y | | | | yes |
| 03.47 | Example Protocol Stacks for Interconnecting Service Centre(s) (SC) and Mobile Services Switching Centre(s) (MSC) | T2 | | Y | Y | Y | Y | w | | | | yes |
| 03.48 | Security mechanisms for SIM application toolkit; Stage 2 | T3 | Y | | | Y | Y | Y | | | | yes |

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|--------|---|----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 03.49 | Example protocol stacks for interconnecting Cell Broadcast Centre (CBC) and Base Station Controller (BSC) | T2 | | Y | Y | Y | Y | w | | | | yes |
| 03.50 | Transmission Planning Aspects of the Speech Service in the GSM Public Land Mobile Network (PLMN) System | S4 | Y | Y | Y | Y | Y | Y | | | | yes |
| 03.51 | GSMEDGE Radio Access Network (GERAN) overall description; Stage 2 | G1 | | | | | | | | | | |
| 03.52 | Lower layers of the GSM Cordless Telephony System (CTS) radio interface; Stage 2 | G1 | | | | | Y | Y | | | | yes |
| 03.53 | Tandem Free Operation (TFO); Service description; Stage 2 | S4 | | | | | Y | Y | | | | yes |
| 03.54 | Description for the use of a Shared Inter Working Function (SIWF) in a GSM PLMN; Stage 2 | N3 | | | Y | Y | Y | | | | | yes |
| 03.55 | Dual Transfer Mode (DTM); Stage 2 | G1 | | | | | | Y | | | | yes |
| 03.56 | GSM Cordless Telephony System (CTS), Phase 1; CTS Architecture Description; Stage 2 | S2 | | | | | Y | w | | | | yes |
| 03.57 | Mobile Station Application Execution Environment (MExE); Functional description; Stage 2 | T2 | | | | | Y | | | | | yes |
| 03.58 | Characterisation, test methods and quality assessment for handsfree Mobile Stations (MSs) | S4 | | | | Y | Y | Y | | | | yes |
| 03.59 | Location services (LCS) GERAN; Stage 2 | G1 | | | | | | | | | | |
| 03.60 | General Packet Radio Service (GPRS) Service description; Stage 2 | S2 | | | w | Y | Y | | | | | yes |
| 03.61 | General Packet Radio Service (GPRS); Point To Multipoint Multicast Service Description; Stage 2 | - | | | | w | | | | | | |
| 03.62 | General Packet Radio Service (GPRS); Point-to-multipoint group call; Stage 2 | - | | | | w | | | | | | |
| 03.63 | Packet Data on Signalling channels service (PDS) Service description, Stage 2 | N1 | | | Y | Y | Y | w | | | | yes |
| 03.64 | General Packet Radio Service (GPRS); Overall description of the GPRS radio interface; Stage 2 | G1 | | | w | Y | Y | Y | | | | yes |
| 03.66 | Support of GSM Mobile Number Portability (MNP); Stage 2 | N4 | | | | | Y | | | | | yes |
| 03.67 | Enhanced Multi-Level Precedence and Preemption Service (EMLPP); Stage 2 | N4 | | | Y | Y | Y | | | | | yes |
| 03.68 | Voice Group Call Service (VGCS); Stage 2 | N1 | | | Y | Y | Y | Y | | | | yes |
| 03.69 | Voice Broadcast service (VBS); Stage 2 | N1 | | | Y | Y | Y | Y | | | | yes |
| 03.70 | Routing of Calls to/from Public Data Networks (PDN) | N3 | Y | Y | Y | Y | Y | | | | | yes |

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|--------|--|----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 03.71 | Location Services (LCS); Functional description; Stage 2 | S2 | | | | | Y | Y | | | | yes |
| 03.72 | Call Deflection stage 2 | N4 | | | | | Y | | | | | yes |
| 03.73 | Support of Localised Service Area (SoLSA); Stage 2 | N4 | | | | | Y | Y | | | | yes |
| 03.78 | Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 2; Stage 2 | N2 | | | Y | Y | Y | | | | | yes |
| 03.79 | Support of Optimal Routeing phase 1; Stage 2 | N4 | | | Y | Y | Y | | | | | yes |
| 03.81 | Line Identification Supplementary Services; Stage 2 | N4 | | Y | Y | Y | Y | | | | | yes |
| 03.82 | Call Forwarding (CF) Supplementary Services; Stage 2 | N4 | Y | Y | Y | Y | Y | w | | | | yes |
| 03.83 | Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 2 | N4 | | Y | Y | Y | Y | | | | | yes |
| 03.84 | Multi Party (MPTY) Supplementary Services; Stage 2 | N4 | | Y | Y | Y | Y | | | | | yes |
| 03.85 | Closed user Group (CUG) Supplementary Services; Stage 2 | N4 | | Y | Y | Y | Y | | | | | yes |
| 03.86 | Advice of Charge (AoC) Supplementary Services; Stage 2 | N4 | | Y | Y | Y | Y | | | | | yes |
| 03.87 | User-to-user signalling (UUS); Stage 2 | N4 | | | | | Y | | | | | yes |
| 03.88 | Call Barring (CB) supplementary services; Stage 2 | N4 | Y | Y | Y | Y | Y | | | | | yes |
| 03.90 | Unstructured Supplementary Service Data (USSD) | N4 | | Y | Y | Y | Y | | | | | yes |
| 03.91 | Explicit Call Transfer (ECT) Supplementary Service; Stage 2 | N4 | | | Y | Y | Y | | | | | yes |
| 03.93 | Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2 | N4 | | | | Y | Y | | | | | yes |
| 03.94 | Follow Me Service description; Stage 2 | - | | | w | | | | | | | |
| 03.95 | Support of Private Numbering Plan (SPNP); Stage 2 | | | | w | | | | | | | |
| 03.96 | Name Identification Supplementary Services; Stage 2 | N4 | | | | Y | Y | | | | | yes |
| 03.97 | Multiple subscriber Profile (MSP); Stage 2 | N4 | | | | | Y | | | | | yes |
| 03.98 | New barring services; Stage 2 description | - | | | w | | | | | | | |
| 03.99 | Direct Subscriber Access and Restriction (DSAR); Stage 2 | - | | | w | | | | | | | |
| 04.01 | Mobile Station - Base Station System (MS - BSS) Interface General Aspects and Principles | N1 | Y | Y | Y | Y | Y | Y | | | | yes |
| 04.02 | GSM Public Land Mobile Network (PLMN) Access Reference Configuration | N1 | Y | Y | Y | Y | Y | | | | | yes |
| 04.03 | Mobile Station - Base Station System (MS - BSS) Interface Channel Structures and Access Capabilities | G2 | Y | Y | Y | Y | Y | Y | | | | yes |

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|--------|---|----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 04.04 | Layer 1 - General Requirements | G2 | Y | Y | Y | Y | Y | Y | | | | yes |
| 04.05 | Data Link (DL) Layer General Aspects | G2 | Y | Y | Y | Y | Y | Y | | | | yes |
| 04.06 | Mobile Station - Base Stations System (MS - BSS) Interface Data Link (DL) Layer Specification | G2 | Y | Y | Y | Y | Y | Y | | | | yes |
| 04.07 | Mobile Radio Interface Signalling Layer 3 - General Aspects | N1 | Y | Y | Y | Y | Y | | | | | yes |
| 04.08 | Mobile radio interface layer 3 specification | N1 | Y | Y | Y | Y | Y | Y | | | | yes |
| 04.10 | Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects | N4 | Y | Y | Y | Y | Y | | | | | yes |
| 04.11 | Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface | N1 | Y | Y | Y | Y | Y | | | | | yes |
| 04.12 | Short Message Service Cell Broadcast (SMS-CB) Support on the Mobile Radio Interface | G2 | Y | Y | Y | Y | Y | Y | | | | yes |
| 04.13 | Performance Requirements on Mobile Radio Interface | N1 | | Y | Y | Y | Y | Y | | | | yes |
| 04.14 | Individual equipment type requirements and interworking; Special conformance testing functions | G2 | | | Y | Y | Y | Y | | | | yes |
| 04.18 | Mobile radio interface layer 3 specification; Radio Resource Control Protocol | G2 | | | | | | Y | | | | yes |
| 04.21 | Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface | N3 | Y | Y | Y | Y | Y | Y | | | | yes |
| 04.22 | Radio Link Protocol (RLP) for data and telematic services on the Mobile Station - Base Station System (MS - BSS) interface and the Base Station System - Mobile-services Switching Centre (BSS - MSC) interface | N3 | Y | Y | Y | Y | Y | w | | | | yes |
| 04.30 | Location Services (LCS); Supplementary service operations; Stage 3 | N4 | | | | | Y | | | | | yes |
| 04.31 | Location Services (LCS); Mobile Station (MS) - Serving Mobile Location Centre (SMLC) Radio Resource LCS Protocol (RRLP) | G2 | | | | | Y | Y | | | | yes |
| 04.33 | Lawful interception; Stage 3 | | | | | | w | | | | | |
| 04.35 | Location Services (LCS); Broadcast network assistance for Enhanced Observed Time Difference (E-OTD) and Global Positioning System (GPS) positioning methods | G2 | | | | | Y | Y | | | | yes |
| 04.36 | Premium rate services - stage 3 | | | | w | | | | | | | |
| 04.53 | Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3 | | | | | | w | | | | | |

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

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| 04.83 | Call Waiting (CW) and Call Hold (HOLD) Supplementary Services; Stage 3 | N4 | | Y | Y | Y | Y | | | | | yes |
| 04.84 | Multi Party (MPTY) Supplementary Services; Stage 3 | N4 | | Y | Y | Y | Y | | | | | yes |
| 04.85 | Closed User Group (CUG) Supplementary Services; Stage 3 | N4 | | Y | Y | Y | Y | | | | | yes |
| 04.86 | Advice of Charge (AoC) Supplementary Services; Stage 3 | N4 | | Y | Y | Y | Y | | | | | yes |
| 04.87 | User-to-User Signalling (UUS) Supplementary Service; Stage 3 | N4 | | | | | Y | | | | | yes |
| 04.88 | Call Barring (CB) Supplementary Services; Stage 3 | N4 | Y | Y | Y | Y | Y | | | | | yes |
| 04.90 | Unstructured Supplementary Service Data (USSD) | N4 | | Y | Y | Y | Y | | | | | yes |
| 04.91 | Explicit Call Transfer (ECT) Supplementary Service; Stage 3 | N4 | | | Y | Y | Y | | | | | yes |
| 04.93 | Completion of Calls to Busy Subscriber (CCBS); Stage 3 | N4 | | | | Y | Y | | | | | yes |
| 04.94 | Follow Me Service description; Stage 3 | - | | | | | | w | | | | |
| 04.96 | Name Identification Supplementary Services; Stage 3 | N4 | | | | Y | Y | | | | | yes |
| 04.98 | New barring services; Stage 3 | | | | w | | | | | | | |
| 04.99 | Direct subscriber access and restriction; Stage 3 | | | | w | | | | | | | |
| 05.00 | Service to GSM handportables in trains | - | | | w | | | | | | | |
| 05.01 | Physical Layer on the Radio Path (General Description) | G1 | Y | Y | Y | Y | Y | Y | | | | yes |
| 05.02 | Multiplexing and Multiple Access on the Radio Path | G1 | Y | Y | Y | Y | Y | Y | | | | yes |
| 05.03 | Channel coding | G1 | Y | Y | Y | Y | Y | Y | | | | yes |
| 05.04 | Modulation | G1 | Y | Y | Y | Y | Y | Y | | | | yes |
| 05.05 | Radio Transmission and Reception | G1 | Y | Y | Y | Y | Y | Y | | | | yes |
| 05.08 | Radio Subsystem Link Control | G1 | Y | Y | Y | Y | Y | Y | | | | yes |
| 05.09 | Link adaptation | G1 | | | | | Y | Y | | | | yes |
| 05.10 | Radio subsystem synchronization | G1 | Y | Y | Y | Y | Y | Y | | | | yes |
| 05.14 | Release independent frequency bands; Implementation guidelines | G1 | | | | Y | Y | w | | | | yes |
| 05.18 | Hands free mobile station | | | | w | | | | | | | |
| 05.19 | Service to GSM handportables in trains | | | | w | | | | | | | |
| 05.20 | Fast moving Mobile Station (study) | | | | w | | | | | | | |
| 05.21 | DCS 1800; 4 Watt Mobile Power Class - study | | | | | w | | | | | | |
| 05.22 | Radio link management in hierarchical networks | G1 | | Y | Y | Y | Y | Y | | | | yes |
| 05.30 | General packet radio service requirements | | | | w | | | | | | | |
| 05.50 | Background for RF Requirements | G1 | | Y | Y | Y | Y | Y | | | | yes |

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| 05.56 | GSM Cordless Telephony System (CTS), Phase 1; CTS-Fixed Part (FP) radio subsystem | G1 | | | | | Y | Y | | | | yes |
| 05.90 | GSM Electromagnetic Compatibility (EMC) considerations | G1 | | Y | Y | Y | Y | | | | | yes |
| 06.01 | Full Rate Speech Processing Functions | S4 | Y | Y | Y | Y | Y | Y | | | | yes |
| 06.02 | Half Rate Speech Processing Functions | S4 | | Y | Y | Y | Y | Y | | | | yes |
| 06.06 | Half Rate Speech: ANSI-C Code for GSM Half Rate Speech Codec | S4 | | Y | Y | Y | Y | Y | | | | yes |
| 06.07 | Half Rate Speech: Test Sequence for GSM Half Rate Speech Codec | S4 | | Y | Y | Y | Y | Y | | | | yes |
| 06.08 | Half Rate Speech; Performance Characterization of the GSM Half Rate speech codec | S4 | | Y | Y | Y | Y | Y | | | | yes |
| 06.10 | Full Rate Speech Transcoding | S4 | Y | Y | Y | Y | Y | Y | | | | yes |
| 06.11 | Substitution and Muting of Lost Frames for Full Rate Speech Channels | S4 | Y | Y | Y | Y | Y | Y | | | | yes |
| 06.12 | Comfort Noise Aspects for Full Rate Speech Traffic Channels | S4 | Y | Y | Y | Y | Y | Y | | | | yes |
| 06.20 | Half Rate Speech Transcoding | S4 | | Y | Y | Y | Y | Y | | | | yes |
| 06.21 | Half rate speech; Substitution and muting of lost frames for half rate speech traffic channels | S4 | | Y | Y | Y | Y | Y | | | | yes |
| 06.22 | Comfort Noise Aspects for Half Rate Speech Traffic Channels | S4 | | Y | Y | Y | Y | Y | | | | yes |
| 06.31 | Discontinuous Transmission (DTX) for Full Rate Speech Traffic Channels | S4 | Y | Y | Y | Y | Y | Y | | | | yes |
| 06.32 | Voice Activity Detection (VAD) | S4 | Y | Y | Y | Y | Y | Y | | | | yes |
| 06.41 | Discontinuous Transmission (DTX) for Half Rate Speech Traffic Channels | S4 | | Y | Y | Y | Y | Y | | | | yes |
| 06.42 | Voice Activity Detection (VAD) for Half Rate Speech Traffic Channels | S4 | | Y | Y | Y | Y | Y | | | | yes |
| 06.51 | GSM Enhanced full rate speech processing functions: General description | S4 | | Y | Y | Y | Y | Y | | | | yes |
| 06.53 | ANSI-C code for the GSM Enhanced Full Rate (EFR) speech codec | S4 | | Y | Y | Y | Y | Y | | | | yes |
| 06.54 | Test sequences for the GSM Enhanced Full Rate (EFR) | S4 | | Y | Y | Y | Y | Y | | | | yes |
| 06.55 | Performance characterisation of the GSM EFR Speech Codec | S4 | | Y | Y | Y | Y | Y | | | | yes |
| 06.60 | Enhanced full rate speech transcoding | S4 | | Y | Y | Y | Y | Y | | | | yes |
| 06.61 | Substitution and muting of lost frames for enhanced full rate speech traffic channels | S4 | | Y | Y | Y | Y | Y | | | | yes |
| 06.62 | Comfort noise aspects for Enhanced Full Rate (EFR) speech traffic channels | S4 | | Y | Y | Y | Y | Y | | | | yes |

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| 06.71 | Adaptive Multi-Rate speech processing functions; General description | S4 | | | | | Y | | | | | yes |
| 06.73 | Adaptive Multi Rate (AMR) speech; ANSI-C code for the AMR speech codec | S4 | | | | | Y | | | | | yes |
| 06.74 | Test sequences for the GSM Adaptive Multi Rate (AMR) speech codec | S4 | | | | | Y | | | | | yes |
| 06.75 | Performance characterization of the GSM Adaptive Multi-Rate (AMR) speech codec | S4 | | | | | Y | | | | | yes |
| 06.76 | Adaptive Multi-Rate (AMR) speech codec; Study phase report | S4 | | | | | Y | Y | | | | yes |
| 06.77 | Minimum Performance Requirements for Noise Suppressor Application to the AMR Speech Encoder | S4 | | | | | | Y | | | | yes |
| 06.78 | Results of the AMR noise suppression selection phase | S4 | | | | | | Y | | | | yes |
| 06.81 | Discontinuous Transmission (DTX) for enhanced full rate speech traffic channels | S4 | | Y | Y | Y | Y | Y | | | | yes |
| 06.82 | Voice Activity Detection (VAD) for enhanced full rate speech traffic channels | S4 | | Y | Y | Y | Y | Y | | | | yes |
| 06.85 | Subjective tests on the interoperability of the HR/FR/EFR speech codecs; single, tandem and tandem free operation | S4 | | | Y | Y | Y | Y | | | | yes |
| 06.90 | Adaptive Multi-Rate speech transcoding | S4 | | | | | Y | | | | | yes |
| 06.91 | Substitution and muting of lost frames for AMR speech traffic channels | S4 | | | | | Y | | | | | yes |
| 06.92 | Comfort noise aspects for Adaptive Multi-Rate speech traffic channels | S4 | | | | | Y | | | | | yes |
| 06.93 | Discontinuous Transmission (DTX) for Adaptive Multi-Rate speech traffic channels | S4 | | | | | Y | | | | | yes |
| 06.94 | Voice Activity Detector (VAD) for Adaptive Multi Rate (AMR) speech traffic channels | S4 | | | | | Y | | | | | yes |
| 07.01 | General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS) | N3 | Y | Y | Y | Y | Y | w | | | | yes |
| 07.02 | Terminal Adaptation Functions (TAF) for Services Using Asynchronous Bearer Capabilities | N3 | Y | Y | Y | Y | Y | w | | | | yes |
| 07.03 | Terminal Adaptation Functions (TAF) for Services Using Synchronous Bearer Capabilities | N3 | Y | Y | Y | Y | Y | w | | | | yes |
| 07.05 | Use of Data Terminal Equipment - Data Circuit Terminating Equipment (DTE-DCE) Interface for Short Message Services (SMS) and Cell Broadcast Services (CBS) | T2 | | Y | Y | Y | Y | | | | | yes |

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|--------|---|----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 07.06 | Use of the V Series Data Terminal Equipment - Data Circuit Terminating Equipment (DTE-DCE) Interface at the Mobile Station (MS) for Mobile Termination (MT) configuration | T2 | | w | | | | | | | | |
| 07.07 | AT Command set for GSM Mobile Equipment (ME) | T2 | | Y | Y | Y | Y | | | | | yes |
| 07.08 | GSM Application Programming Interface | T2 | | | Y | | | w | | | | yes |
| 07.10 | Terminal Equipment to Mobile Station (TE-MS) multiplexer protocol | T2 | | | | Y | Y | | | | | yes |
| 07.57 | Mobile Station Application Execution Environment (MExE); Stage 3 | | | | w | | | | | | | |
| 07.60 | General Packet Radio Service (GPRS); Mobile Station (MS) supporting GPRS | N3 | | | Y | Y | Y | | | | | yes |
| 08.01 | General Aspects on the BSS-MSC Interface | G2 | Y | Y | Y | Y | Y | Y | | | | yes |
| 08.02 | Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface - Interface Principles | G2 | Y | Y | Y | Y | Y | Y | | | | yes |
| 08.04 | Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface Layer 1 Specification | G2 | Y | Y | Y | Y | Y | Y | | | | yes |
| 08.06 | Signalling Transport Mechanism Specification for the Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface | G2 | Y | Y | Y | Y | Y | Y | | | | yes |
| 08.08 | Mobile-services Switching Centre - Base Station system (MSC-BSS) Interface Layer 3 Specification | G2 | Y | Y | Y | Y | Y | Y | | | | yes |
| 08.14 | General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) interface; Gb Interface Layer 1 | G2 | | | w | Y | Y | Y | | | | yes |
| 08.16 | General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) Interface; Network Service | G2 | | | w | Y | Y | Y | | | | yes |
| 08.18 | General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN); BSS GPRS Protocol | G2 | | | Y | Y | Y | Y | | | | yes |
| 08.20 | Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface | N3 | Y | Y | Y | Y | Y | Y | | | | yes |
| 08.31 | Location Services LCS: Serving Mobile Location Centre - Serving Mobile Location Centre (SMLC - SMLC); SMLCPP specification | G2 | | | | | Y | Y | | | | yes |
| 08.51 | Base Station Controller - Base Transceiver Station (BSC-BTS) Interface General Aspects | G2 | Y | Y | Y | Y | Y | Y | | | | yes |

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| 08.52 | Base Station Controller - Base Transceiver Station (BSC-BTS) Interface - Interface Principles | G2 | Y | Y | Y | Y | Y | Y | | | | yes |
| 08.54 | BSC-BTS Layer 1; Structure of Physical Circuits | G2 | Y | Y | Y | Y | Y | Y | | | | yes |
| 08.56 | BSC-BTS Layer 2; Specification | G2 | Y | Y | Y | Y | Y | Y | | | | yes |
| 08.58 | Base Station Controller - Base Transceiver Station (BSC-BTS) Interface Layer 3 Specification | G2 | Y | Y | Y | Y | Y | Y | | | | yes |
| 08.59 | BSC-BTS O&M Signalling Transport | G3 | Y | w | | | | | | | | yes |
| 08.60 | In-band control of remote transcoders and rate adaptors for Enhanced Full Rate (EFR) and full rate traffic channels | G1 | Y | Y | Y | Y | Y | Y | | | | yes |
| 08.61 | In-band control of remote transcoders and rate adaptors for half rate traffic channels | G1 | | Y | Y | Y | Y | Y | | | | yes |
| 08.62 | Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3 | S4 | | | | | Y | Y | | | | yes |
| 08.64 | GPRS support node - BSS protocol (SGSN_BSS) interface; BSSGP layer 3 | | | | | w | | | | | | |
| 08.71 | Location Services (LCS); Serving Mobile Location Centre - Base Station System (SMLC-BSS) interface; Layer 3 | G2 | | | | | Y | Y | | | | yes |
| 09.01 | General Network Interworking Scenarios | N4 | Y | Y | Y | Y | Y | Y | | | | yes |
| 09.02 | Mobile Application Part (MAP) Specification | N4 | Y | Y | Y | Y | Y | | | | | yes |
| 09.03 | Signalling Requirements on Interworking between the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) and the Public Land Mobile Network (PLMN) | N3 | Y | Y | Y | Y | Y | | | | | yes |
| 09.04 | Interworking between the Public Land Mobile Network (PLMN) and the Circuit Switched Public Data Network (CSPDN) | N3 | Y | Y | Y | Y | Y | | | | | yes |
| 09.05 | Interworking between the PLMN and the PSPDN for PAD Access | N3 | Y | Y | Y | Y | Y | | | | | yes |
| 09.06 | Interworking between a Public Land Mobile Network (PLMN) and a Packet Switched Public Data Network/Integrated Services digital Network (PSPDN/ISDN) for Support of Packet Switched Data Transmission Services | N3 | | Y | Y | Y | Y | | | | | yes |
| 09.07 | General Requirements on Interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN) | N3 | Y | Y | Y | Y | Y | w | | | | yes |

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

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|--------|---|----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 09.94 | Recommended infrastructure measures to overcome specific Mobile Station (MS) faults | N1 | | Y | Y | Y | Y | w | | | | yes |
| 09.95 | Interworking between modified PLMN supporting GPRS and legacy GPRS mobiles | G1 | | | | Y | Y | | | | | yes |
| 10.00 | Digital Cellular Telecommunication System Feature Description | S2 | | | Y | | Y | | | | | yes |
| 10.01 | GSM features and releases | - | | | | | w | | | | | |
| 10.02 | Guidelines for the modification of the Mobile Application Part (MAP) in phase 2+ | N4 | | | Y | Y | | | | | | yes |
| 10.14 | System overview for 14.4 kbit/s Work Item | S2 | | | Y | | | | | | | yes |
| 10.17 | General Packet Radio Service (GPRS); Charging in GPRS | - | | | | | w | | | | | |
| 10.20 | Lawful Interception requirements for GSM | S3 | | | Y | w | | | | | | |
| 10.43 | Support of Localised Service Area (SoLSA); Work Item Status | S1 | | | | | | w | | | | |
| 10.56 | Project scheduling and open issues: GSM Cordless Telephony System CTS, Phase 1 | S2 | | | | | Y | Y | | | | yes |
| 10.57 | Project scheduling and open issues: Mobile Station Execution Environment (MExE) | T2 | | | | | w | w | | | | |
| 10.59 | Project scheduling and open issues for EDGE | G1 | | | | | | Y | | | | yes |
| 10.60 | General Packet Radio Services (GPRS); Project Scheduling and Open Issues | S2 | | | w | w | | | | | | |
| 10.66 | Support of Mobile Number Portability (MNP); Project plan | S1 | | | w | | | | | | | yes |
| 10.68 | Introduction to the services: enhanced Multi-Level Precedence and Pre-emption (eMLPP), Voice Group Call Service (VGCS), Voice Broadcast Service (VBS) | S2 | | | w | | | | | | | |
| 10.70 | GSM Adaptive Multi-Rate Speech Codec (AMR); Project schedule and open issues for AMR | S4 | | | | | Y | | | | | yes |
| 10.71 | Project scheduling and open issues: Location services (LCS) | S1 | | | | | w | | | | | yes |
| 10.76 | Noise suppression for the AMR codec; Project scheduling and open issues | S4 | | | | | | w | | | | |
| 10.78 | Project scheduling and open issues: CAMEL | S2 | | | | | w | | | | | |
| 10.87 | User to User Signalling (UUS) | S2 | | | | | w | | | | | |
| 10.89 | GSM to other Systems Handover and Cell Selection/Reselection; Project scheduling and open issues; | GP | | | | | | w | | | | |
| 10.94 | Follow Me supplementary service | SP | | | | | w | | | | | |
| 10.99 | GERAN project plan and open issues | | | | | | | | | | | |

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| 11.01 | Mobile station type approval procedure principles (Candidate NET 10 part 1) | | w | | | | | | | | | |
| 11.10 | Mobile Station Conformity Specification | G4 | Y | | | | | | | | | yes |
| 11.10-1 | Mobile station (MS) conformance specification; Part1: Conformance specification | G5 | | Y | Y | Y | Y | Y | | | | yes |
| 11.10-2 | Mobile station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification | G5 | | Y | w | w | w | w | | | | yes |
| 11.10-3 | Mobile Station (MS) Conformance Specification; Part 3: Layer3 (L3) Abstract Test Suite (ATS) | G5 | | Y | Y | w | w | w | | | | yes |
| 11.10-4 | Mobile Station (MS) Conformance Specification; Part 4: SIM Application Toolkit conformance specification | G5 | | | Y | w | w | Y | | | | yes |
| 11.11 | Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) Interface | T3 | Y | Y | Y | Y | Y | Y | | | | yes |
| 11.12 | Specification on the 3 Volt subscriber identity module Equipment (SIM-ME) Interface | T3 | | Y | w | | | | | | | yes |
| 11.13 | Test specification for SIM API for Java card | T3 | | | | | Y | Y | | | | yes |
| 11.14 | Specification of the SIM Application Toolkit for the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface | T3 | | | Y | Y | Y | Y | | | | yes |
| 11.16 | Conformity Specifications for Transparent Facsimile Group 3 Adaptors | | | w | | | | | | | | |
| 11.17 | SIM test specification | T3 | | | | | Y | w | | | | yes |
| 11.18 | Specification of the 1.8 Volt Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface | T3 | | | | | Y | w | | | | yes |
| 11.19 | CTS SIM Fixed Part | T3 | | | | | Y | | | | | yes |
| 11.20 | GSM DCS 1800 Base Station Specification | GP | Y | | | | | | | | | yes |
| 11.20 | GSM DCS 1800 Base Station Specification | GP | w | | | | | | | | | yes |
| 11.21 | Base Station System (BSS) equipment specification; Radio aspects | G3 | | Y | Y | Y | Y | Y | | | | yes |
| 11.22 | GSM Base Station and Ancillary Equipment, Physical and Electrical Parameters, Application of Standards and Guidance Notes | G3 | | Y | | | | | | | | yes |
| 11.23 | GSM Signalling Aspects Base Station System equipment Specification | G3 | | Y | | | | | | | | yes |
| 11.24 | GSM Transcoding and Rate Adaptation: Base Station System Equipment Specification | G3 | | Y | | | | | | | | yes |

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| 11.25 | The GSM Base Station System (BSS) Equipment specification Half-rate speech | G3 | | w | | | | | | | | |
| 11.26 | Base Station System (BSS) equipment specification; Part 4: Repeaters | G3 | | Y | Y | Y | Y | Y | | | | yes |
| 11.30 | Mobile Services Switching Centre | GP | Y | | | | | | | | | yes |
| 11.31 | Home Location Register Specification | GP | Y | | | | | | | | | yes |
| 11.32 | Visitor Location Register Specification | GP | Y | | | | | | | | | yes |
| 11.40 | DCS 1800 System Simulator Conformity Specification | G4 | Y | | | | | | | | | yes |
| 11.56 | CTS phase 1, CTS Fixed Part Tests | - | | | | w | | | | | | |
| 12.00 | Objectives and Structure of GSM Public Land Mobile Network (PLMN) Management | S5 | | Y | | | | | | | | yes |
| 12.01 | Network Management (NM); Part 2: Common aspects of SM/DCS 1800 Network Management | S5 | | Y | | | | | | | | yes |
| 12.02 | Subscriber, Mobile Equipment (ME) and Services Data Administration | S5 | | Y | Y | | | | | | | yes |
| 12.03 | Security Management | S5 | | Y | w | w | Y | Y | | | | yes |
| 12.04 | Performance data measurements | S5 | | Y | w | w | Y | Y | | | | yes |
| 12.05 | Subscriber Related Call and Event Data | S5 | | Y | Y | Y | Y | | | | | yes |
| 12.06 | Network Configuration Management and Administration | S5 | | Y | | | | | | | | yes |
| 12.07 | Public Land Mobile Network (PLMN) Quality of Service (QoS) | - | w | w | | | | | | | | |
| 12.08 | Subscriber and Equipment trace | S5 | | Y | Y | | | | | | | yes |
| 12.10 | Maintenance Provisions for Operational Integrity of MSs | S5 | Y | | | | | | | | | yes |
| 12.11 | Fault management of the Base Station System (BSS) | S5 | | Y | | Y | | | | | | yes |
| 12.13 | Maintenance of the Mobile-services Switching Centre | S5 | Y | | | | | | | | | yes |
| 12.14 | Maintenance of Location Registers | S5 | Y | | | | | | | | | yes |
| 12.15 | General Packet Radio Service (GPRS); GPRS Charging | S5 | | | | Y | Y | | | | | yes |
| 12.20 | Base Station System (BSS) Management Information | S5 | | Y | | | | | | | | yes |
| 12.21 | Network Management (NM) procedures and messages on the A-bis interface | G3 | | Y | Y | Y | Y | Y | | | | yes |
| 12.22 | Interworking of GSM Network Management (NM) Procedures and Messages at the Base Station Controller (BSC) | G3 | | Y | | | | | | | | yes |
| 12.30 | ETSI Object Identifier Tree; Mobile Domain O&M | S5 | | Y | | | | | | | | yes |
| 12.71 | Location Services (LCS); Location services management | S5 | | | | | Y | Y | | | | yes |

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|---------|---|---------|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 13.01 | Attachment requirements for Global System for Mobile communications (GSM); Part 1: Mobile stations in the GSM 900 and DCS 1 800 bands; Access | MSG | | Y | | | | | | | | yes |
| 13.01-1 | Attachment requirements for Global System for Mobile communications (GSM) mobile stations; Access | MSG | | Y | | | | | | | | yes |
| 13.01-2 | Attachment requirements for mobile stations in the DCS 1800 band and additional GSM 900 band; Access | MSG | | Y | | | | | | | | yes |
| 13.02 | Attachment requirements for mobile stations in the DCS 1800 band and additional GSM 900 band; Access | MSG | | Y | | | | | | | | yes |
| 13.02-1 | Attachment requirements; Telephony | MSG-GSM | | w | | | | | | | | |
| 13.02-2 | Attachment requirements (CDCS 1800); Telephony | MSG-GSM | | w | | | | | | | | |
| 13.11 | Mobiles stations in the GSM 900 and DCS 1800 bands covering essential requirements under article 3.2 of the R&TTE Directive | MSG | | | | | Y | | | | | yes |
| 13.21 | Base station systems and repeater equipment covering essential requirements under article 3.2 of the R&TTE directive | MSG | | | | | Y | Y | | | | yes |
| 13.34 | Attachment requirements for Global System for Mobile communications (GSM); High Speed Circuit Switched Data (HSCSD) Multislot Mobile Stations; Access | MSG | | | Y | | | | | | | yes |
| 13.55 | Attachment requirements for Cordless Telephony System Fixed Part (CTS-FP); Access | - | | | w | | | | | | | |
| 13.56 | Cordless Telephony System Mobile Stations (CTS-MS); Access | - | | | w | | | | | | | |
| 13.57 | unknown | | | | w | | | | | | | |
| 13.59 | Enhanced Data rates for GSM Evolution (EDGE) Mobile Stations; Access | MSG | | | w | | | | | | | |
| 13.60 | Attachment requirements for Global System for Mobile communications (GSM); General Packet Radio Service (GPRS); Mobile stations; Access | MSG | | | w | | | | | | | |
| 13.67 | Attachment requirements for Global System for Mobile communications (GSM); Railways Band (R-GSM); Mobile Stations; Access | MSG | | | Y | | | | | | | yes |
| 13.68 | Attachment requirements for Global System for Mobile communications (GSM); Advanced Speech Call Items (GSM-ASCI) Mobile Stations; Access | MSG | | | Y | | | | | | | yes |
| 21.010 | reserved | SP | | | | | | w | | | | |

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|--------|---|----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 21.01U | Overall requirements on the radio interface(s) of the UMTS | GP | | | | | | | | | | |
| 21.02U | High level requirements relevant for the definition of the UMTS Terrestrial Radio Access UTRA concept | GP | | | | | | | | | | |
| 21.04U | Requirements for the support of data services in UMTS | - | | | | | | | | | | |
| 21.06U | O&M requirements for the UMTS | - | | | | | | | | | | |
| 21.100 | 3G specification handling procedures | - | | | | | | w | | | | |
| 21.101 | 3rd Generation mobile system Release 1999 Specifications | SP | | | | | | Y | | | | yes |
| 21.102 | 3rd Generation mobile system Release 4 specifications | SP | | | | | | | Y | | | yes |
| 21.103 | 3rd Generation mobile system Release 5 specifications | SP | | | | | | | | Y | | yes |
| 21.104 | 3rd Generation mobile system Release 6 specifications | SP | | | | | | | | | Y | yes |
| 21.111 | USIM and IC card requirements | T3 | | | | | | Y | Y | Y | | yes |
| 21.133 | 3G security; Security threats and requirements | S3 | | | | | | Y | Y | | | yes |
| 21.801 | Specification drafting rules | SP | | | | | | | Y | Y | | yes |
| 21.810 | Report on multi-mode UE issues; ongoing work and identified additional work | T2 | | | | | | Y | | | | yes |
| 21.877 | Radio optimization impacts on the Packet Switched (PS) domain architecture | S2 | | | | | | | | Y | | yes |
| 21.900 | Technical Specification Group working methods | SP | | | | | | Y | Y | Y | | yes |
| 21.904 | User Equipment (UE) capability requirements | T2 | | | | | | Y | | | | yes |
| 21.905 | Vocabulary for 3GPP Specifications | S1 | | | | | | Y | Y | Y | Y | yes |
| 21.906 | reserved | | | | | | | w | | | | |
| 21.910 | Multi-mode UE issues; categories, principles and procedures | T2 | | | | | | Y | | | | yes |
| 21.978 | Feasibility Technical Report; CAMEL Control of VoIP Services | N2 | | | | | | Y | | | | yes |
| 22.001 | Principles of circuit telecommunication services supported by a Public Land Mobile Network (PLMN) | S1 | | | | | | Y | Y | Y | | yes |
| 22.002 | Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN) | S1 | | | | | | Y | Y | Y | | yes |
| 22.003 | Circuit Teleservices supported by a Public Land Mobile Network (PLMN) | S1 | | | | | | Y | Y | Y | | yes |
| 22.004 | General on supplementary services | S1 | | | | | | Y | Y | Y | | yes |
| 22.00U | UMTS Phase 1 | - | | | | | | | | | | |
| 22.011 | Service accessibility | S1 | | | | | | Y | Y | Y | | yes |
| 22.016 | International Mobile Equipment Identities (IMEI) | S1 | | | | | | Y | Y | Y | | yes |
| 22.01U | Universal Mobile Telecommunications System (UMTS): Service aspects; Service principles | - | | | | | | | | | | |
| 22.022 | Personalisation of Mobile Equipment (ME); Mobile functionality specification | S3 | | | | | | Y | Y | Y | | yes |

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|--------|---|----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 22.024 | Description of Charge Advice Information (CAI) | S1 | | | | | | Y | Y | Y | | yes |
| 22.030 | Man-Machine Interface (MMI) of the User Equipment (UE) | S1 | | | | | | Y | Y | Y | | yes |
| 22.032 | Immediate Service Termination (IST); Service description; Stage 1 | S3 | | | | | | Y | Y | Y | | yes |
| 22.034 | High Speed Circuit Switched Data (HSCSD); Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.038 | USIM/SIM Application Toolkit (USAT/SAT); Service description; Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.041 | Operator Determined Call Barring | S1 | | | | | | Y | Y | Y | | yes |
| 22.042 | Network Identity and Time Zone (NITZ) service description; Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.043 | Support of Localized Service Area (SoLSA); Service description; Stage 1 | S1 | | | | | | w | w | | | |
| 22.048 | Security Mechanisms for the (U)SIM application toolkit; Stage 1 | T3 | | | | | | | Y | | | yes |
| 22.053 | Tandem Free Operation (TFO); Service description; Stage 1 | S4 | | | | | | w | Y | Y | | yes |
| 22.057 | Mobile Execution Environment (MExE) service description; Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.05U | Services and service capabilities | - | | | | | | | | | | |
| 22.060 | General Packet Radio Service (GPRS); Service description; Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.066 | Support of Mobile Number Portability (MNP); Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.067 | enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.071 | Location Services (LCS); Stage 1 | S1 | | | | | | Y | Y | Y | Y | yes |
| 22.072 | Call Deflection (CD); Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.076 | Noise suppression for the AMR codec; Service description; Stage 1 | S4 | | | | | | | Y | Y | | yes |
| 22.078 | Customized Applications for Mobile network Enhanced Logic (CAMEL); Service description; Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.079 | Support of optimal routing; Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.07U | UMTS terminal and smart card concepts | - | | | | | | | | | | |
| 22.081 | Line Identification supplementary services; Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.082 | Call Forwarding (CF) Supplementary Services; Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.083 | Call Waiting (CW) and Call Hold (HOLD) supplementary services; Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.084 | MultiParty (MPTY) supplementary service; Stage 1 | S1 | | | | | | Y | Y | Y | | yes |

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| 22.085 | Closed User Group (CUG) supplementary services; Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.086 | Advice of Charge (AoC) supplementary services; Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.087 | User-to-user signalling (UUS); Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.088 | Call Barring (CB) supplementary services; Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.090 | Unstructured Supplementary Service Data (USSD); Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.091 | Explicit Call Transfer (ECT) supplementary service; Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.093 | Completion of Calls to Busy Subscriber (CCBS); Service description, Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.094 | Follow Me service description - Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.096 | Name identification supplementary services; Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.097 | Multiple Subscriber Profile (MSP) Phase 1; Service description - Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.100 | UMTS Phase 1 | S1 | | | | | | Y | | | | yes |
| 22.101 | Service aspects; Service principles | S1 | | | | | | Y | Y | Y | Y | yes |
| 22.105 | Services and service capabilities | S1 | | | | | | Y | Y | Y | Y | yes |
| 22.112 | USIM toolkit interpreter; Stage 1 | T3 | | | | | | | w | Y | | yes |
| 22.115 | Service Aspects Charging and billing | S1 | | | | | | Y | Y | Y | | yes |
| 22.121 | Service aspects; The Virtual Home Environment; Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.127 | Service Requirement for the Open Services Access (OSA); Stage 1 | S1 | | | | | | | Y | Y | Y | yes |
| 22.129 | Handover requirements between UTRAN and GERAN or other radio systems | S1 | | | | | | Y | Y | Y | | yes |
| 22.135 | Multicall; Service description; Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.140 | Multimedia Messaging Service (MMS); Stage 1 | S1 | | | | | | Y | Y | Y | | yes |
| 22.141 | Presence service; Stage 1 | S1 | | | | | | | | w | Y | yes |
| 22.146 | Multimedia Broadcast/Multicast Service (MBMS); Stage 1 | S1 | | | | | | | | w | Y | yes |
| 22.174 | Push service; Stage 1 | S1 | | | | | | | | w | Y | yes |
| 22.177 | Speech-enabled services; Stage 1 | S1 | | | | | | | | | Y | yes |
| 22.21U | Virtual Home Environment | - | | | | | | | | | | |
| 22.226 | Global text telephony (GTT); Stage 1: Service description | S1 | | | | | | | | Y | | yes |
| 22.227 | Service requirements for the Open Service Access (OSA) | S1 | | | | | | | w | | | |
| 22.228 | Service requirements for the Internet Protocol (IP) multimedia core network subsystem; Stage 1 | S1 | | | | | | | | Y | Y | yes |
| 22.233 | Transparent end-to-end packet-switched streaming service; Stage 1 | S1 | | | | | | | | Y | Y | yes |

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| 22.234 | (reserved for future WLAN I/w stage 1) | S2 | | | | | | | | | | |
| 22.240 | Service requirements for 3GPP Generic User Profile (GUP); Stage 1 | S1 | | | | | | | | w | Y | yes |
| 22.242 | Digital Rights Management (DRM); Stage 1 | S1 | | | | | | | | | Y | yes |
| 22.243 | Speech recognition framework for automated voice services; Stage 1 | S1 | | | | | | | | w | Y | yes |
| 22.24U | Charging and Accounting Mechanism | - | | | | | | | | | | |
| 22.250 | IP Multimedia Subsystem (IMS) Group Management; Stage 1 | S1 | | | | | | | | | Y | yes |
| 22.25U | Quality of Service (QoS) and network performance | - | | | | | | | | | | |
| 22.29U | Handover Requirements between UMTS and GSM or other RadioSystems | - | | | | | | | | | | |
| 22.30U | Service requirements on security | | | | | | | | | | | |
| 22.340 | IP Multimedia Subsystem (IMS) messaging; Stage 1 | S1 | | | | | | | | | Y | yes |
| 22.35U | Service requirements on numbering, addressing and identities | | | | | | | | | | | |
| 22.40U | Charging, billing and accounting principles | | | | | | | | | | | |
| 22.45U | Human Factors, service principles and their application to UMTS | | | | | | | | | | | |
| 22.50U | Subscriber and service profile requirements | | | | | | | | | | | |
| 22.55U | UMTS user identity modules | | | | | | | | | | | |
| 22.60U | Mobile multimedia services including mobile Intranet and Internet services | - | | | | | | | | | | |
| 22.70U | Virtual Home Environment | - | | | | | | | | | | |
| 22.71U | Service aspects; Automatic Establishment of Roaming Relationships | - | | | | | | | | | | |
| 22.72U | Real Time Multimedia in UMTS | - | | | | | | | | | | |
| 22.75U | Service aspects; Advanced addressing | - | | | | | | | | | | |
| 22.800 | IP Multimedia Subsystem (IMS) subscription and access scenarios | S1 | | | | | | | | | Y | yes |
| 22.80U | UMTS Relationship to other Standards | - | | | | | | | | | | |
| 22.857 | Run-time independent framework feasibility study | T2 | | | | | | | | | Y | yes |
| 22.907 | Terminal concepts | - | | | | | | w | | | | |
| 22.924 | Charging and accounting mechanisms | - | | | | | | w | | | | |
| 22.925 | Quality of Service (QoS) and network performance | - | | | | | | w | | | | |
| 22.928 | IP-based multimedia services examples | S1 | | | | | | | | Y | | yes |
| 22.934 | Feasibility study on 3GPP system to Wireless Local Area Network (WLAN) interworking | S1 | | | | | | | | | Y | yes |
| 22.940 | IP Multimedia Subsystem (IMS) messaging; Stage 1 | S1 | | | | | | | | | w | |
| 22.941 | IP based multimedia framework; Stage 0 | S1 | | | | | | | | Y | | yes |

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| 22.944 | Service requirements for UE functionality split | S1 | | | | | | | | Y | | yes |
| 22.945 | Study of provision of fax service in GSM and UMTS | T2 | | | | | | Y | | | | yes |
| 22.946 | Broadcast and multicast services | S1 | | | | | | | | w | | |
| 22.950 | Priority service feasibility study | S1 | | | | | | | | | Y | yes |
| 22.951 | Service aspects and requirements for network sharing | S1 | | | | | | | | | Y | yes |
| 22.960 | Mobile multimedia services | - | | | | | | w | | | | |
| 22.970 | Virtual Home Environment Report | - | | | | | | w | | | | |
| 22.971 | Automatic establishment of roaming relationships | S1 | | | | | | Y | | | | yes |
| 22.972 | Circuit-switched multimedia | - | | | | | | w | | | | |
| 22.975 | Advanced addressing | S1 | | | | | | Y | | | | yes |
| 22.976 | Study on PS domain services and capabilities | S1 | | | | | | | w | Y | | yes |
| 22.977 | Feasibility study for speech-enabled services | S1 | | | | | | | | | Y | yes |
| 23.002 | Network architecture | S2 | | | | | | Y | Y | Y | | yes |
| 23.003 | Numbering, Addressing and Identification | N4 | | | | | | Y | Y | Y | | yes |
| 23.007 | Restoration procedures | N4 | | | | | | Y | Y | Y | | yes |
| 23.008 | Organisation of subscriber data | N4 | | | | | | Y | Y | Y | | yes |
| 23.009 | Handover procedures | N1 | | | | | | Y | Y | Y | | yes |
| 23.010 | GSM Public Land Mobile Network (PLMN) Connection Types | - | | | | | | w | | | | |
| 23.011 | Technical realization of Supplementary Services | N4 | | | | | | Y | Y | Y | | yes |
| 23.012 | Location management procedures | N4 | | | | | | Y | Y | Y | | yes |
| 23.014 | Support of Dual Tone Multi Frequency (DTMF) signalling | N1 | | | | | | Y | Y | Y | | yes |
| 23.015 | Technical realisation of Operator Determined Barring (ODB) | N4 | | | | | | Y | Y | Y | | yes |
| 23.016 | Subscriber data management; Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.018 | Basic Call Handling; Technical realization | N4 | | | | | | Y | Y | Y | | yes |
| 23.01U | UMTS Network principles | - | | | | | | | | | | |
| 23.022 | Functions related to Mobile Station (MS) in idle mode and group receive mode | - | | | | | | w | | | | |
| 23.032 | Universal Geographical Area Description (GAD) | S2 | | | | | | Y | Y | | | yes |
| 23.034 | High Speed Circuit Switched Data (HSCSD); Stage 2 | N1 | | | | | | Y | Y | Y | | yes |
| 23.035 | Immediate Service Termination (IST); Stage 2 | S3 | | | | | | Y | Y | Y | | yes |
| 23.038 | Alphabets and language-specific information | T2 | | | | | | Y | Y | Y | | yes |
| 23.039 | Interface Protocols for the Connection of Short Message Service Centers (SMSCs) to Short Message Entities (SMEs) | T2 | | | | | | Y | Y | Y | | yes |
| 23.040 | Technical realization of Short Message Service (SMS) | T2 | | | | | | Y | Y | Y | Y | yes |
| 23.041 | Technical realization of Cell Broadcast Service (CBS) | T2 | | | | | | Y | Y | Y | Y | yes |

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| 23.042 | Compression algorithm for SMS | T2 | | | | | | Y | Y | Y | | yes |
| 23.043 | Support of Videotex | - | | | | | | w | | | | |
| 23.044 | Support of Teletex | - | | | | | | w | | | | |
| 23.045 | Technical Realization of Facsimile Group 3 Service - transparent | - | | | | | | w | | | | |
| 23.046 | Technical realisation of facsimile Group 3 service - non-transparent | - | | | | | | w | | | | |
| 23.048 | Security Mechanisms for the (U)SIM application toolkit; Stage 2 | T3 | | | | | | | Y | Y | | yes |
| 23.053 | Tandem Free Operation (TFO); Service description; Stage 2 | S4 | | | | | | | Y | Y | | yes |
| 23.054 | Shared Interworking Functions (SIWF); Stage 2 | N3 | | | | | | w | | | | |
| 23.057 | Mobile Execution Environment (MExE); Functional description; Stage 2 | T2 | | | | | | Y | Y | Y | Y | yes |
| 23.05U | UMTS Network principles | - | | | | | | | | | | |
| 23.060 | General Packet Radio Service (GPRS) Service description; Stage 2 | S2 | | | | | | Y | Y | Y | | yes |
| 23.066 | Support of GSM Mobile Number Portability (MNP) stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.067 | Enhanced Multi-Level Precedence and Preemption Service (EMLPP); Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.069 | Voice Broadcast service (VBS); Stage 2 | N1 | | | | | | w | | | | |
| 23.070 | Routeing of calls to/from Public Data Networks (PDN) and the GSM Public Land Mobile Network (PLMN) | - | | | | | | w | | | | |
| 23.071 | Location Services (LCS); Functional description; Stage 2 | - | | | | | | w | | | | |
| 23.072 | Call Deflection Supplementary Service; Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.073 | Support of Localised Service Area (SoLSA); Stage 2 | N4 | | | | | | w | w | w | | |
| 23.078 | Customised Applications for Mobile network Enhanced Logic (CAMEL); Stage 2 | N2 | | | | | | Y | Y | Y | | yes |
| 23.079 | Support of Optimal Routeing (SOR); Technical realization; Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.081 | Line Identification supplementary services; Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.082 | Call Forwarding (CF) Supplementary Services; Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.083 | Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.084 | MultiParty (MPTY) Supplementary Service; Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.085 | Closed User Group (CUG) Supplementary Service; Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.086 | Advice of Charge (AoC) Supplementary Service; Stage 2 | N4 | | | | | | Y | Y | Y | | yes |

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| 23.087 | User-to-User Signalling (UUS) supplementary service; Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.088 | Call Barring (CB) Supplementary Service; Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.090 | Unstructured Supplementary Service Data (USSD); Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.091 | Explicit Call Transfer (ECT) Supplementary Service; Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.093 | Technical realization of Completion of Calls to Busy Subscriber (CCBS); Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.094 | Follow Me Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.096 | Name Identification Supplementary Service; Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.097 | Multiple Subscriber Profile (MSP) Phase 1; Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.101 | General UMTS Architecture | S2 | | | | | | Y | Y | | | yes |
| 23.107 | Quality of Service (QoS) concept and architecture | S2 | | | | | | Y | Y | Y | | yes |
| 23.108 | Mobile radio interface layer 3 specification core network protocols; Stage 2 (structured procedures) | N1 | | | | | | Y | Y | Y | | yes |
| 23.10U | UMTS Access Stratum; Services and Functions | - | | | | | | | | | | |
| 23.110 | UMTS Access Stratum Services and Functions | S2 | | | | | | Y | Y | | | yes |
| 23.116 | Super-Charger technical realization; Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.119 | Gateway Location Register (GLR); Stage2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.121 | Architectural requirements for Release 1999 | S2 | | | | | | Y | | w | | yes |
| 23.122 | Non-Access-Stratum functions related to Mobile Station (MS) in idle mode | N1 | | | | | | Y | Y | Y | | yes |
| 23.127 | Virtual Home Environment (VHE) / Open Service Access (OSA); Stage 2 | S2 | | | | | | Y | Y | Y | Y | yes |
| 23.135 | Multicall supplementary service; Stage 2 | N4 | | | | | | Y | Y | Y | | yes |
| 23.140 | Multimedia Messaging Service (MMS); Functional description; Stage 2 | T2 | | | | | | Y | Y | Y | | yes |
| 23.141 | Presence service; Architecture and functional description; Stage 2 | S2 | | | | | | | | | Y | yes |
| 23.146 | Technical realisation of facsimile Group 3 service - non-transparent | N3 | | | | | | | Y | Y | | yes |
| 23.153 | Out of Band Transcoder Control; Stage 2 | N4 | | | | | | | Y | Y | | yes |
| 23.171 | Location Services (LCS); Functional description; Stage 2 (UMTS) | S2 | | | | | | Y | w | | | yes |
| 23.172 | Technical realization of Circuit Switched (CS) multimedia service; UDI/RDI fallback and service modification; Stage 2 | N3 | | | | | | | | Y | | yes |
| 23.174 | Push service; stage 2 | S2 | | | | | | | | w | Y | yes |

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| 23.178 | Customised Applications for Mobile network Enhanced Logic (CAMEL) - IP Multimedia System (IMS) interworking; Stage 2 | N2 | | | | | | | | w | | |
| 23.205 | Bearer-independent circuit-switched core network; Stage 2 | N4 | | | | | | | Y | Y | | yes |
| 23.207 | End-to-end Quality of Service (QoS) concept and architecture | S2 | | | | | | | w | Y | | yes |
| 23.20U | Evolution of the GSM platform towards UMTS | S2 | | | | | | | | | | |
| 23.218 | IP Multimedia (IM) session handling; IM call model; Stage 2 | N1 | | | | | | | | Y | | yes |
| 23.221 | Architectural requirements | S2 | | | | | | | Y | Y | | yes |
| 23.226 | Global text telephony (GTT); Stage 2: Architecture | S2 | | | | | | | | Y | | yes |
| 23.227 | Application and user interaction in the UE; Principles and specific requirements | T2 | | | | | | | Y | Y | | yes |
| 23.228 | IP Multimedia Subsystem (IMS); Stage 2 | S2 | | | | | | | | Y | Y | yes |
| 23.234 | 3GPP system to Wireless Local Area Network (WLAN) interworking; Functional and architectural definition | S2 | | | | | | | | | Y | yes |
| 23.236 | Intra-domain connection of Radio Access Network (RAN) nodes to multiple Core Network (CN) nodes | S2 | | | | | | | | Y | | yes |
| 23.240 | 3GPP generic user profile requirements; Stage 2; Architecture | S2 | | | | | | | | Y | | yes |
| 23.241 | 3GPP Generic User Profile (GUP) requirements; Stage 2; Data description framework | T2 | | | | | | | | w | Y | yes |
| 23.246 | Multimedia Broadcast/Multicast Service (MBMS); Stage 2 | S2 | | | | | | | | w | Y | |
| 23.271 | Location Services (LCS); Functional description; Stage 2 | S2 | | | | | | | Y | Y | Y | yes |
| 23.278 | Customised Applications for Mobile network Enhanced Logic (CAMEL) - IP Multimedia System (IMS) interworking; Stage 2 | N2 | | | | | | | | Y | | yes |
| 23.340 | (reserved for: "IP Multimedia Subsystem (IMS) messaging; Stage 2") | S2 | | | | | | | | | w | |
| 23.40U | UMTS Network Aspects; Relationship with UPT | | | | | | | | | | | |
| 23.50U | UMTS Network Aspects; IN and B-ISDN concepts in a UMTS environment | | | | | | | | | | | |
| 23.60U | UMTS Network Aspects; UMTS data organization | | | | | | | | | | | |
| 23.70U | UMTS Network Aspects; UMTS operations and procedures | | | | | | | | | | | |
| 23.80U | UMTS Network Aspects; Signalling requirements for UMTS | | | | | | | | | | | |
| 23.814 | Separating RR and MM specific parts of the MS Classmark | N1 | | | | | | Y | w | | | yes |

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| 23.815 | Charging implications of IMS architecture | S2 | | | | | | | | Y | | yes |
| 23.821 | Architecture Principles for Release 2000 | S2 | | | | | | | Y | | | yes |
| 23.841 | Presence service architecture | S2 | | | | | | | | w | Y | yes |
| 23.846 | Multimedia Broadcast/Multicast Service (MBMS); Stage 2 | S2 | | | | | | | | w | Y | yes |
| 23.871 | Enhanced support for user privacy in Location Services (LCS) | S2 | | | | | | | | Y | | yes |
| 23.873 | Feasibility study for transport and control separation in the PS CN domain | S2 | | | | | | | Y | | | yes |
| 23.874 | Feasibility study of architecture for network requested PDP context activation with User-ID | S2 | | | | | | | Y | | | yes |
| 23.875 | Support of Push service | S2 | | | | | | | | Y | | yes |
| 23.907 | Quality of Service (QoS) concept | S2 | | | | | | | Y | | | yes |
| 23.908 | Technical report on Pre-Paging | N4 | | | | | | Y | Y | w | | yes |
| 23.909 | Technical report on the Gateway Location Register | N4 | | | | | | Y | Y | w | | yes |
| 23.90U | UMTS Network Aspects; Network performance requirements | | | | | | | | | | | |
| 23.910 | Circuit switched data bearer services | N3 | | | | | | Y | Y | Y | | yes |
| 23.911 | Technical report on Out-of-band transcoder control | N4 | | | | | | Y | Y | w | | yes |
| 23.912 | Technical report on Super-Charger | N4 | | | | | | Y | Y | w | | yes |
| 23.913 | UMTS Turbo-Charger | - | | | | | | | w | | | |
| 23.915 | Charging implications of IMS architecture | S2 | | | | | | | | w | | |
| 23.917 | Dynamic policy control enhancements for End to end Quality of Service (QoS); Feasibility study | S2 | | | | | | | | | Y | yes |
| 23.920 | Evolution of the GSM platform towards UMTS | - | | | | | | w | | | | |
| 23.922 | Architecture for an All IP network | S2 | | | | | | w | w | | | |
| 23.923 | Combined GSM and Mobile IP mobility handling in UMTS IP CN | S2 | | | | | | Y | w | | | yes |
| 23.925 | UMTS Core network based ATM transport | S2 | | | | | | Y | Y | | | yes |
| 23.927 | VHE, Open Service Architecture (OSA) | - | | | | | | w | | | | |
| 23.930 | Iu Principles | S2 | | | | | | Y | Y | | | yes |
| 23.934 | 3GPP system to Wireless Local Area Network (WLAN) interworking; Functional and architectural definition | S2 | | | | | | | | | Y | yes |
| 23.955 | Virtual Home Environment (VHE) concepts | S2 | | | | | | | | Y | | yes |
| 23.95U | UMTS Network Aspects; Network functions relevant to satellites | | | | | | | | | | | |
| 23.960 | Framework of network functions to support multimedia services | - | | | | | | w | | | | |
| 23.972 | Circuit switched multimedia telephony | N1 | | | | | | Y | w | | | yes |
| 23.974 | Support of push service | S2 | | | | | | | | w | | |

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| 24.002 | GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration | N1 | | | | | | Y | Y | Y | | yes |
| 24.004 | Layer 1 - General Requirements | G2 | | | | | | | w | | | |
| 24.007 | Mobile radio interface signalling layer 3; General Aspects | N1 | | | | | | Y | Y | Y | | yes |
| 24.008 | Mobile radio interface Layer 3 specification; Core network protocols; Stage 3 | N1 | | | | | | Y | Y | Y | | yes |
| 24.010 | Mobile Radio Interface Layer 3 - Supplementary Services Specification - General Aspects | N4 | | | | | | Y | Y | Y | | yes |
| 24.011 | Point-to-Point (PP) Short Message Service (SMS) Support on Mobile Radio Interface | N1 | | | | | | Y | Y | Y | | yes |
| 24.012 | Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface | G2 | | | | | | w | w | | | |
| 24.022 | Radio Link Protocol (RLP) for circuit switched bearer and teleservices | N3 | | | | | | Y | Y | Y | | yes |
| 24.030 | Location Services (LCS); Supplementary service operations; Stage 3 | N4 | | | | | | Y | Y | Y | | yes |
| 24.04U | UMTS Interworking and internetworking signalling aspects; Interworking of UMTS with other systems | | | | | | | | | | | |
| 24.05U | UMTS Interworking and internetworking signalling aspects; Interworking of UMTS with other systems | | | | | | | | | | | |
| 24.065 | General Packet Radio Service (GPRS); Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDP) | N1 | | | | | | w | | | | |
| 24.067 | Enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3 | N4 | | | | | | Y | Y | Y | | yes |
| 24.068 | Group Call Control (GCC) Protocol | N1 | | | | | | w | | | | |
| 24.069 | Broadcast Call Control (BCC) protocol | N1 | | | | | | w | | | | |
| 24.072 | Call Deflection Supplementary Service; Stage 3 | N4 | | | | | | Y | Y | Y | | yes |
| 24.080 | Mobile radio Layer 3 supplementary service specification; Formats and coding | N4 | | | | | | Y | Y | Y | | yes |
| 24.081 | Line Identification Supplementary Service; Stage 3 | N4 | | | | | | Y | Y | Y | | yes |
| 24.082 | Call Forwarding supplementary service; Stage 3 | N4 | | | | | | Y | Y | Y | | yes |
| 24.083 | Call Waiting (CW) and Call Hold (HOLD) Supplementary Service; Stage 3 | N4 | | | | | | Y | Y | Y | | yes |

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

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| 25.10U | UMTS Radio Aspects; Channel coding | | | | | | | | | | | |
| 25.113 | Base station and repeater electromagnetic compatibility (EMC) | R4 | | | | | | Y | Y | Y | | yes |
| 25.123 | Requirements for support of radio resource management (TDD) | R4 | | | | | | Y | Y | Y | | yes |
| 25.133 | Requirements for support of radio resource management (FDD) | R4 | | | | | | Y | Y | Y | | yes |
| 25.141 | Base station conformance testing (FDD) | R4 | | | | | | Y | Y | Y | | yes |
| 25.142 | Base station conformance testing (TDD) | R4 | | | | | | Y | Y | Y | | yes |
| 25.143 | UTRA repeater; Conformance testing | R4 | | | | | | | Y | Y | | yes |
| 25.15U | UMTS Radio Aspects; Modulation | | | | | | | | | | | |
| 25.201 | Physical layer - general description | R1 | | | | | | Y | Y | Y | | yes |
| 25.20U | UMTS Radio Aspects; Transmission and reception | | | | | | | | | | | |
| 25.211 | Physical channels and mapping of transport channels onto physical channels (FDD) | R1 | | | | | | Y | Y | Y | | yes |
| 25.212 | Multiplexing and channel coding (FDD) | R1 | | | | | | Y | Y | Y | | yes |
| 25.213 | Spreading and modulation (FDD) | R1 | | | | | | Y | Y | Y | | yes |
| 25.214 | Physical layer procedures (FDD) | R1 | | | | | | Y | Y | Y | | yes |
| 25.215 | Physical layer; Measurements (FDD) | R1 | | | | | | Y | Y | Y | | yes |
| 25.221 | Physical channels and mapping of transport channels onto physical channels (TDD) | R1 | | | | | | Y | Y | Y | | yes |
| 25.222 | Multiplexing and channel coding (TDD) | R1 | | | | | | Y | Y | Y | | yes |
| 25.223 | Spreading and modulation (TDD) | R1 | | | | | | Y | Y | Y | | yes |
| 25.224 | Physical layer procedures (TDD) | R1 | | | | | | Y | Y | Y | | yes |
| 25.225 | Physical layer; Measurements (TDD) | R1 | | | | | | Y | Y | Y | | yes |
| 25.301 | Radio Interface Protocol Architecture | R2 | | | | | | Y | Y | Y | | yes |
| 25.302 | Services provided by the physical layer | R2 | | | | | | Y | Y | Y | | yes |
| 25.303 | Interlayer procedures in Connected Mode | R2 | | | | | | Y | Y | Y | | yes |
| 25.304 | UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode | R2 | | | | | | Y | Y | Y | | yes |
| 25.305 | User Equipment (UE) positioning in Universal Terrestrial Radio Access Network (UTRAN); Stage 2 | R2 | | | | | | Y | Y | Y | | yes |
| 25.306 | UE Radio Access capabilities definition | R2 | | | | | | Y | Y | Y | | yes |
| 25.307 | Requirements on UEs supporting a release-independent frequency band | R2 | | | | | | Y | Y | Y | | yes |

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| 25.308 | UTRA High Speed Downlink Packet Access (HSPDA); Overall description; Stage 2 | R2 | | | | | | | | Y | | yes |
| 25.321 | Medium Access Control (MAC) protocol specification | R2 | | | | | | Y | Y | Y | | yes |
| 25.322 | Radio Link Control (RLC) protocol specification | R2 | | | | | | Y | Y | Y | | yes |
| 25.323 | Packet Data Convergence Protocol (PDCP) specification | R2 | | | | | | Y | Y | Y | | yes |
| 25.324 | Broadcast/Multicast Control (BMC) | R2 | | | | | | Y | Y | Y | | yes |
| 25.331 | Radio Resource Control (RRC) protocol specification | R2 | | | | | | Y | Y | Y | | yes |
| 25.346 | Introduction of Multimedia Broadcast/Multicast Service (MBMS) in the Radio Access Network (RAN) | R2 | | | | | | | | | Y | yes |
| 25.371 | LMU signalling | - | | | | | | | w | | | |
| 25.401 | UTRAN Overall Description | R3 | | | | | | Y | Y | Y | | yes |
| 25.402 | Synchronisation in UTRAN Stage 2 | R3 | | | | | | Y | Y | Y | | yes |
| 25.410 | UTRAN Iu Interface: General Aspects and Principles | R3 | | | | | | Y | Y | Y | | yes |
| 25.411 | UTRAN Iu interface layer 1 | R3 | | | | | | Y | Y | Y | | yes |
| 25.412 | UTRAN Iu interface signalling transport | R3 | | | | | | Y | Y | Y | | yes |
| 25.413 | UTRAN Iu interface RANAP signalling | R3 | | | | | | Y | Y | Y | | yes |
| 25.414 | UTRAN Iu interface data transport & transport signalling | R3 | | | | | | Y | Y | Y | | yes |
| 25.415 | UTRAN Iu interface user plane protocols | R3 | | | | | | Y | Y | Y | | yes |
| 25.419 | UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP) | R3 | | | | | | Y | Y | Y | | yes |
| 25.420 | UTRAN Iur Interface: General Aspects and Principles | R3 | | | | | | Y | Y | Y | | yes |
| 25.421 | UTRAN Iur interface Layer 1 | R3 | | | | | | Y | Y | Y | | yes |
| 25.422 | UTRAN Iur interface signalling transport | R3 | | | | | | Y | Y | Y | | yes |
| 25.423 | UTRAN Iur interface RNSAP signalling | R3 | | | | | | Y | Y | Y | | yes |
| 25.424 | UTRAN Iur interface data transport & transport signalling for CCH data streams | R3 | | | | | | Y | Y | Y | | yes |
| 25.425 | UTRAN Iur interface user plane protocols for CCH data streams | R3 | | | | | | Y | Y | Y | | yes |
| 25.426 | UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams | R3 | | | | | | Y | Y | Y | | yes |
| 25.427 | UTRAN Iur and Iub interface user plane protocols for DCH data streams | R3 | | | | | | Y | Y | Y | | yes |
| 25.430 | UTRAN Iub Interface: General Aspects and Principles | R3 | | | | | | Y | Y | Y | | yes |
| 25.431 | UTRAN Iub interface Layer 1 | R3 | | | | | | Y | Y | Y | | yes |
| 25.432 | UTRAN Iub interface: signalling transport | R3 | | | | | | Y | Y | Y | | yes |
| 25.433 | UTRAN Iub interface NBAP signalling | R3 | | | | | | Y | Y | Y | | yes |
| 25.434 | UTRAN Iub interface data transport & transport signalling for CCH data streams | R3 | | | | | | Y | Y | Y | | yes |

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| 25.435 | UTRAN lub interface user plane protocols for CCH data streams | R3 | | | | | | Y | Y | Y | | yes |
| 25.442 | UTRAN implementation-specific O&M transport | R3 | | | | | | Y | Y | Y | | yes |
| 25.450 | UTRAN lupc interface general aspects and principles | R3 | | | | | | | | Y | | yes |
| 25.451 | UTRAN lupc interface layer 1 | R3 | | | | | | | | Y | | yes |
| 25.452 | UTRAN lupc interface signalling transport | R3 | | | | | | | | Y | | yes |
| 25.453 | UTRAN lupc interface Positioning Calculation Application Part (PCAP) signalling | R3 | | | | | | | | Y | | yes |
| 25.831 | Study Items for future release | R3 | | | | | | Y | | | | yes |
| 25.832 | Manifestations of Handover and SRNS relocation | R3 | | | | | | Y | Y | | | yes |
| 25.833 | Physical layer items not for inclusion in Release 99 | R1 | | | | | | Y | | | | yes |
| 25.834 | UTRA TDD low chip rate option; Radio protocol aspects | R2 | | | | | | | Y | | | yes |
| 25.835 | Report on hybrid ARQ type II/III | R2 | | | | | | | w | | | |
| 25.836 | Node B synchronization for TDD | R1 | | | | | | | Y | | | yes |
| 25.837 | Hybrid ARQ Type II/III (lub/lur aspects) | R3 | | | | | | | Y | | | yes |
| 25.838 | Node B Synchronisation for TDD (lub/lur aspects) | R3 | | | | | | | Y | | | yes |
| 25.839 | Uplink Synchronous Transmission Scheme (USTS) (lur/lub aspects) | R3 | | | | | | | Y | | | yes |
| 25.840 | Terminal power saving features | R1 | | | | | | | Y | | | yes |
| 25.841 | DSCH power control improvement in soft handover | R1 | | | | | | | Y | | | yes |
| 25.842 | Smart antenna | R1 | | | | | | | Y | | | yes |
| 25.843 | 1,28 Mcps TDD UE Radio Access Capabilities | R2 | | | | | | | Y | | | yes |
| 25.844 | Radio access bearer support enhancements | R2 | | | | | | | Y | | | yes |
| 25.845 | FDD RACH and AICH performance requirements | R4 | | | | | | | w | | | |
| 25.846 | CPCH performance | R4 | | | | | | | w | | | |
| 25.847 | UE positioning enhancements | R2 | | | | | | | Y | | | yes |
| 25.848 | Physical Layer Aspects of UTRA High Speed Downlink Packet Access | R1 | | | | | | | Y | | | yes |
| 25.849 | DSCH power control improvement in soft handover | R3 | | | | | | | Y | | | yes |
| 25.850 | UE positioning in UTRAN lub/lur protocol aspects | R3 | | | | | | | Y | | | yes |
| 25.851 | RAB Quality of Service (QoS) Renegotiation over lu | R3 | | | | | | | Y | | | yes |
| 25.852 | Radio access bearer support enhancements for the lu | R3 | | | | | | | Y | | | yes |
| 25.853 | Delay budget within the access stratum | R3 | | | | | | Y | Y | | | yes |
| 25.854 | Uplink Synchronous Transmission Scheme (USTS) | R1 | | | | | | | | Y | | yes |
| 25.855 | High Speed Downlink Packet Access (HSDPA); Overall UTRAN description | R2 | | | | | | | | w | | |
| 25.856 | High Speed Downlink Packet Access (HSDPA); Layer 2 and 3 aspects | R2 | | | | | | | | Y | | yes |

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| 25.857 | UE positioning enhancements | R2 | | | | | | | | Y | | yes |
| 25.858 | Physical layer aspects of UTRA High Speed Downlink Packet Access | R1 | | | | | | | | Y | | yes |
| 25.859 | User Equipment (UE) positioning enhancements for 1,28 Mcps TDD | R2 | | | | | | | | Y | | yes |
| 25.860 | Radio access bearer support enhancements | R2 | | | | | | | | Y | | yes |
| 25.861 | RNC - SMLC location protocol | R2 | | | | | | | | w | | |
| 25.867 | Feasibility study for wideband distribution systems in 3rd generation networks | R4 | | | | | | | | Y | | yes |
| 25.868 | Node B synchronization for 1,28 Mcps TDD | R1 | | | | | | | | Y | | yes |
| 25.869 | Transmitter diversity solutions for multiple antennas | R1 | | | | | | | | Y | | yes |
| 25.870 | Enhancement on the DSCH Hard Split mode | R1 | | | | | | | | Y | | yes |
| 25.875 | NAS node selector function | R3 | | | | | | | | Y | | yes |
| 25.876 | Multiple-Input Multiple-Output Antenna Processing for HSDPA | R1 | | | | | | | | Y | | yes |
| 25.877 | High Speed Downlink Packet Access (HSDPA) - Iub/Iur Protocol Aspects | R3 | | | | | | | | Y | | yes |
| 25.878 | RL timing adjustment | R3 | | | | | | | | Y | | yes |
| 25.879 | Separation of resource reservation and radio link activation | R3 | | | | | | | | Y | | yes |
| 25.880 | Traffic termination point swapping | R3 | | | | | | | | Y | | yes |
| 25.881 | Improvement of Radio Resource Management (RRM) across RNS and RNS/BSS | R3 | | | | | | | | Y | | yes |
| 25.882 | 1,28 Mcps TDD option base station classification | R4 | | | | | | | | Y | | yes |
| 25.883 | Direct Transport Bearers Between SRNC and Node-B | R3 | | | | | | | | Y | | yes |
| 25.884 | Iur Neighbouring cell reporting efficiency optimisation | R3 | | | | | | | | Y | | yes |
| 25.885 | UMTS 1800 / 1900 MHz work items report | R4 | | | | | | | | w | | |
| 25.886 | Small technical enhancements and improvements work item | R4 | | | | | | | | w | | |
| 25.887 | Beamforming | R1 | | | | | | | | w | Y | yes |
| 25.888 | Improvement of inter frequency and inter system measurement for 1,28 Mcps TDD | R1 | | | | | | | | Y | | yes |
| 25.889 | Viable deployment of UTRA in additional and diverse spectrum arrangements; Feasibility study | R4 | | | | | | | | | Y | yes |
| 25.890 | High Speed Downlink Packet Access (HSDPA); User Equipment (UE) radio transmission and reception (FDD) | R4 | | | | | | | | Y | | yes |
| 25.891 | Improvement of Radio Resource Management (RRM) across RNS and RNS/BSS post-Rel-5 | R3 | | | | | | | | | Y | yes |
| 25.892 | Analysis of OFDM for UTRAN enhancement | R1 | | | | | | | | | Y | yes |

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| 25.893 | Radio access bearer scenarios | R2 | | | | | | | | Y | | yes |
| 25.894 | Enhanced UE positioning using software blanking | R2 | | | | | | | | | Y | yes |
| 25.895 | Analysis of higher chip rates for UTRA TDD evolution | R1 | | | | | | | | | Y | yes |
| 25.896 | Uplink enhancements for dedicated transport channels | R1 | | | | | | | | | Y | yes |
| 25.897 | Feasibility study on the evolution of UTRAN architecture | R3 | | | | | | | | | Y | yes |
| 25.898 | Power control enhancements for UTRA | R1 | | | | | | | | | Y | yes |
| 25.921 | Guidelines and principles for protocol description and error handling | R2 | | | | | | Y | Y | Y | | yes |
| 25.922 | Radio Resource Management Strategies | R2 | | | | | | Y | Y | Y | | yes |
| 25.923 | Stage 2 Functional Specification of Location Services in UTRAN | - | | | | | | w | | | | |
| 25.924 | Opportunity Driven Multiple Access (ODMA) | R2 | | | | | | | w | | | |
| 25.925 | Radio Interface for Broadcast/Multicast Services | R2 | | | | | | Y | | | | yes |
| 25.926 | UE Radio Access capabilities definition | R2 | | | | | | w | | | | |
| 25.928 | 1,28 Mcps functionality for UTRA TDD physical layer | R1 | | | | | | | Y | | | yes |
| 25.931 | UTRAN Functions, examples on signalling procedures | R3 | | | | | | Y | Y | Y | | yes |
| 25.932 | Delay budget within the access stratum | R3 | | | | | | | w | | | |
| 25.933 | IP transport in UTRAN | R3 | | | | | | | w | Y | | yes |
| 25.934 | AAL2 QoS optimization | R3 | | | | | | | Y | | | yes |
| 25.935 | RRM optimisation | R3 | | | | | | | Y | | | yes |
| 25.936 | Handover for realtime services from PS-domain | R3 | | | | | | | Y | | | yes |
| 25.937 | UTRAN TDD low chiprate | R3 | | | | | | | Y | | | yes |
| 25.938 | Terminal power saving features | R3 | | | | | | | w | | | |
| 25.941 | Document structure | R4 | | | | | | Y | | | | yes |
| 25.942 | RF system scenarios | R4 | | | | | | Y | Y | Y | | yes |
| 25.943 | Deployment aspects | R4 | | | | | | | Y | Y | | yes |
| 25.944 | Channel coding and multiplexing examples | R1 | | | | | | Y | Y | | | yes |
| 25.945 | RF requirements for low chip rate TDD option | R4 | | | | | | | Y | Y | | yes |
| 25.946 | RAB Quality of Service (QoS) Negotiation over lu | R3 | | | | | | | Y | | | yes |
| 25.950 | UTRA high speed downlink packet access | R2 | | | | | | | Y | | | yes |
| 25.951 | Base Station classification (FDD) | R4 | | | | | | | w | Y | | yes |
| 25.952 | Base Station classification (TDD) | R4 | | | | | | | w | Y | | yes |
| 25.953 | TrFO/TFO | R3 | | | | | | | Y | | | yes |
| 25.954 | Migration to modification procedure | R3 | | | | | | | Y | | | yes |
| 25.956 | UTRA repeater: Planning guidelines and system analysis | R4 | | | | | | | Y | Y | | yes |
| 25.990 | Vocabulary for UTRAN | R4 | | | | | | w | | | | |

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| 25.991 | Feasibility study on the mitigation of the effect of common pilot channel (CPICH) interference at the user equipment | R4 | | | | | | | | Y | | yes |
| 25.992 | Multimedia Broadcast/Multicast Service (MBMS); UTRAN/GERAN requirements | RP | | | | | | | | | Y | yes |
| 25.993 | Typical examples of RABs and RBs supported by UTRA | R2 | | | | | | Y | Y | Y | Y | yes |
| 25.994 | Measures employed by the UMTS Radio Access Network (RAN) to cater for User Equipment (UE) which does not conform to the RAN interface specification | RP | | | | | | | | Y | | yes |
| 25.995 | Measures employed by the UMTS Radio Access Network (RAN) to cater for legacy User Equipment (UE) which conforms to superseded versions of the RAN interface specification | RP | | | | | | | | Y | | yes |
| 26.071 | AMR speech Codec; General description | S4 | | | | | | Y | Y | Y | | yes |
| 26.073 | AMR speech Codec; C-source code | S4 | | | | | | Y | Y | Y | | yes |
| 26.074 | AMR speech Codec; Test sequences | S4 | | | | | | Y | Y | Y | | yes |
| 26.075 | Performance characterization of the Adaptive Multi-Rate (AMR) speech codec | - | | | | | | w | | | | |
| 26.077 | Minimum Performance Requirements for Noise Suppressor Application to the AMR Speech Encoder | S4 | | | | | | | Y | Y | | yes |
| 26.078 | Results of the AMR noise suppression selection phase | S4 | | | | | | | w | | | |
| 26.090 | AMR speech Codec; Transcoding Functions | S4 | | | | | | Y | Y | Y | | yes |
| 26.091 | AMR speech Codec; Error concealment of lost frames | S4 | | | | | | Y | Y | Y | | yes |
| 26.092 | AMR speech Codec; comfort noise for AMR Speech Traffic Channels | S4 | | | | | | Y | Y | Y | | yes |
| 26.093 | AMR speech Codec; Source Controlled Rate operation | S4 | | | | | | Y | Y | Y | | yes |
| 26.094 | AMR Speech Codec; Voice Activity Detector for AMR Speech Traffic Channels | S4 | | | | | | Y | Y | Y | | yes |
| 26.101 | Mandatory speech codec speech processing functions; Adaptive Multi-Rate (AMR) speech codec frame structure | S4 | | | | | | Y | Y | Y | | yes |
| 26.102 | AMR speech Codec; Interface to lu and Uu | S4 | | | | | | Y | Y | Y | | yes |
| 26.103 | Speech codec list for GSM and UMTS | S4 | | | | | | Y | Y | Y | | yes |
| 26.104 | ANSI-C code for the floating-point Adaptive Multi-Rate (AMR) speech codec | S4 | | | | | | Y | Y | Y | | yes |
| 26.110 | Codec for circuit switched multimedia telephony service; General description | S4 | | | | | | Y | Y | Y | | yes |

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| 26.111 | Codec for Circuit switched Multimedia Telephony Service; Modifications to H.324 | S4 | | | | | | Y | Y | Y | | yes |
| 26.112 | Codec(s) for Circuit Switched Multimedia Telephony Service; Call Set-up Requirements | S4 | | | | | | w | | | | |
| 26.115 | Echo control for speech and multi-media services | S4 | | | | | | w | Y | Y | | yes |
| 26.121 | Technical Specification for Tandem Free Operation within 3G networks | - | | | | | | w | | | | |
| 26.122 | Technical Specification for Tandem Free Operation between 3G and 2G networks | - | | | | | | w | | | | |
| 26.131 | Terminal acoustic characteristics for telephony; Requirements | S4 | | | | | | Y | Y | Y | | yes |
| 26.132 | Narrow band (3,1 kHz) speech and video telephony terminal acoustic test specification | S4 | | | | | | Y | Y | Y | | yes |
| 26.133 | Wide band speech telephony terminal acoustic characteristics | S4 | | | | | | w | | | | |
| 26.134 | Wide band speech telephony terminal acoustic test specification | S4 | | | | | | w | | | | |
| 26.135 | Terminal Display and Camera Characteristics for H.324 Narrow -band Video Telephony | S4 | | | | | | w | | | | |
| 26.136 | Terminal Display and Camera Test Specifications for H.324 Narrow -band Video Telephony | S4 | | | | | | w | | | | |
| 26.137 | Terminal Display and Camera Characteristics for H.323 Narrow -band Video Telephony | S4 | | | | | | w | | | | |
| 26.138 | Terminal Display and Camera Test Specifications for H.323 Narrow -band Video Telephony | S4 | | | | | | w | | | | |
| 26.140 | Multimedia Messaging Service (MMS); Media formats and codes | S4 | | | | | | | | Y | | yes |
| 26.15U | Source coding aspects Aspects; Integration of audio visual coding into UMTS | | | | | | | | | | | |
| 26.171 | AMR speech codec, wideband; General description | S4 | | | | | | | | Y | | yes |
| 26.173 | ANSI-C code for the Adaptive Multi Rate (AMR) Wideband speech codec | S4 | | | | | | | | Y | | yes |
| 26.174 | AMR speech codec, wideband; Test sequences | S4 | | | | | | | | Y | | yes |
| 26.190 | Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Transcoding functions | S4 | | | | | | | | Y | | yes |
| 26.191 | AMR speech codec, wideband; Error concealment of lost frames | S4 | | | | | | | | Y | | yes |

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| 26.192 | Mandatory Speech Codec speech processing functions AMR Wideband Speech Codec; Comfort noise aspects | S4 | | | | | | | | Y | | yes |
| 26.193 | AMR speech codec, wideband; Source Controlled Rate operation | S4 | | | | | | | | Y | | yes |
| 26.194 | Mandatory Speech Codec speech processing functions AMR Wideband speech codec; Voice Activity Detector (VAD) | S4 | | | | | | | | Y | | yes |
| 26.201 | AMR speech codec, wideband; Frame structure | S4 | | | | | | | | Y | | yes |
| 26.202 | AMR speech codec, wideband; Interface to lu and Uu | S4 | | | | | | | | Y | | yes |
| 26.204 | ANSI-C code for the floating-point Adaptive Multi-Rate (AMR) wideband speech codec | S4 | | | | | | | | Y | | yes |
| 26.226 | Global text telephony (GTT);Transport of text in the voice channel | S4 | | | | | | | w | Y | | yes |
| 26.230 | Global text telephony (GTT); Cellular text telephone modem transmitter C-code description | S4 | | | | | | | w | Y | | yes |
| 26.231 | Global text telephony (GTT); Cellular text telephone modem minimum performance requirements | S4 | | | | | | | | Y | | yes |
| 26.233 | End-to-end transparent streaming service; General description | S4 | | | | | | | Y | Y | | yes |
| 26.234 | End-to-end transparent streaming service; Protocols and codecs | S4 | | | | | | | Y | Y | | yes |
| 26.235 | Packet switched conversational multimedia applications; Default codecs | S4 | | | | | | | w | Y | | yes |
| 26.236 | Packet switched conversational multimedia applications; Transport protocols | S4 | | | | | | | | Y | | yes |
| 26.901 | AMR wideband speech codec; Feasibility study report | S4 | | | | | | | Y | | | yes |
| 26.911 | Codec for Circuit switched Multimedia Telephony Service;Terminal Implementor's Guide | S4 | | | | | | Y | Y | Y | | yes |
| 26.912 | Codec for Circuit switched Multimedia Telephony Service; Quantitative performance evaluation of H.324 Annex C over 3G | S4 | | | | | | Y | Y | | | yes |
| 26.913 | Quantitative performance evaluation of real-time packet switched multimedia services over 3G | S4 | | | | | | w | w | | | |
| 26.915 | Echo Control For Speech and Multi-Media Services | S4 | | | | | | Y | | | | yes |
| 26.920 | Architectural Model for the 3G Transcoders | S4 | | | | | | | w | | | |

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| 26.937 | Transparent end-to-end packet switched streaming service (PSS); RTP usage model | S4 | | | | | | | | Y | | yes |
| 26.975 | Performance characterization of the Adaptive Multi-Rate (AMR) speech codec | S4 | | | | | | Y | Y | Y | | yes |
| 26.976 | Performance characterization of the Adaptive Multi-Rate Wideband (AMR-WB) speech codec | S4 | | | | | | | | Y | | yes |
| 26.978 | Results of the AMR noise suppression selection phase | S4 | | | | | | | Y | | | yes |
| 27.001 | General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS) | N3 | | | | | | Y | Y | Y | | yes |
| 27.002 | Terminal Adaptation Functions (TAF) for services using Asynchronous bearer capabilities | N3 | | | | | | Y | Y | Y | | yes |
| 27.003 | Terminal Adaptation Functions (TAF) for services using Synchronous bearer capabilities | N3 | | | | | | Y | Y | Y | | yes |
| 27.005 | Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE-DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS) | T2 | | | | | | Y | Y | Y | | yes |
| 27.007 | AT command set for 3G User Equipment (UE) | T2 | | | | | | Y | Y | Y | Y | yes |
| 27.00U | Principles for handling of data services in the UMTS | S5 | | | | | | | | | | |
| 27.010 | Terminal Equipment to User Equipment (TE-UE) multiplexer protocol | T2 | | | | | | Y | Y | Y | | yes |
| 27.060 | Packet domain; Mobile Station (MS) supporting Packet Switched services | N3 | | | | | | Y | Y | Y | | yes |
| 27.103 | Wide Area Network Synchronization | T2 | | | | | | Y | Y | Y | | yes |
| 27.104 | vObjects and other constructs for data synchronization | T2 | | | | | | | | Y | | yes |
| 27.150 | (Reserved for: "Telecommunication management; User Equipment Management (UEM); UEM protocol specification; Stage 3") | T2 | | | | | | | | | w | |
| 27.226 | Global Text telephony (GTT); Terminal aspects | T2 | | | | | | | | w | | |
| 27.241 | 3GPP generic user profile requirements; Stage 3; Access; Common objects | T2 | | | | | | | | Y | | yes |
| 27.901 | Report on Terminal Interfaces - An Overview | T2 | | | | | | Y | Y | Y | | yes |
| 27.903 | Discussion of synchronization standards | T2 | | | | | | Y | Y | | | yes |
| 28.020 | Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface | N3 | | | | | | | w | | | |
| 28.062 | Inband Tandem Free Operation (TFO) of speech codecs; Service description; Stage 3 | S4 | | | | | | w | Y | Y | | yes |

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

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| 29.108 | Application of the Radio Access Network Application Part (RANAP) on the E-interface | R3 | | | | | | Y | Y | Y | | yes |
| 29.119 | GPRS Tunnelling Protocol (GTP) specification for Gateway Location Register (GLR) | N4 | | | | | | Y | Y | Y | | yes |
| 29.120 | Mobile Application Part (MAP) specification for Gateway Location Register (GLR); Stage 3 | N4 | | | | | | Y | Y | Y | | yes |
| 29.162 | Interworking between the IM CN subsystem and IP networks | N3 | | | | | | | | Y | | yes |
| 29.163 | Interworking between the IM CN subsystem and CS networks | N3 | | | | | | | | w | Y | yes |
| 29.198 | Open Service Architecture (OSI) Application Programming Interface (API) - Part 1 | N5 | | | | | | Y | | | | yes |
| 29.198-01 | Open Service Access (OSA) Application Programming Interface (API); Part 1: Overview | N5 | | | | | | | Y | Y | | yes |
| 29.198-02 | Open Service Access (OSA) Application Programming Interface (API); Part 2: Common data | N5 | | | | | | | Y | Y | | yes |
| 29.198-03 | Open Service Access (OSA) Application Programming Interface (API); Part 3: Framework | N5 | | | | | | | Y | Y | | yes |
| 29.198-04 | Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control | N5 | | | | | | | Y | w | | yes |
| 29.198-04-1 | Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control; Subpart 1: Common call control data definitions | N5 | | | | | | | | Y | | yes |
| 29.198-04-2 | Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control; Subpart 2: Generic call control data SCF | N5 | | | | | | | | Y | | yes |
| 29.198-04-3 | Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control; Subpart 3: Multi-party call control data SCF | N5 | | | | | | | | Y | | yes |
| 29.198-04-4 | Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control; Subpart 4: Multimedia call control data SCF | N5 | | | | | | | | Y | | yes |
| 29.198-05 | Open Service Access (OSA) Application Programming Interface (API); Part 5: Generic user interaction | N5 | | | | | | | Y | Y | | yes |
| 29.198-06 | Open Service Access (OSA) Application Programming Interface (API); Part 6: Mobility | N5 | | | | | | | Y | Y | | yes |

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| 29.198-07 | Open Service Access (OSA) Application Programming Interface (API); Part 7: Terminal capabilities | N5 | | | | | | | Y | Y | | yes |
| 29.198-08 | Open Service Access (OSA) Application Programming Interface (API); Part 8: Data session control | N5 | | | | | | | Y | Y | | yes |
| 29.198-09 | Open Service Access (OSA) Application Programming Interface (API); Part 9: Generic messaging SCF | N5 | | | | | | | | w | | |
| 29.198-10 | Open Service Access (OSA) Application Programming Interface (API); Part 10: Connectivity manager SCF | N5 | | | | | | | | w | | |
| 29.198-11 | Open Service Access (OSA) Application Programming Interface (API); Part 11: Account management | N5 | | | | | | | Y | Y | | yes |
| 29.198-12 | Open Service Access (OSA) Application Programming Interface (API); Part 12: Charging | N5 | | | | | | | Y | Y | | yes |
| 29.198-13 | Open Service Access (OSA) Application Programming Interface (API); Part 13: Policy management SCF | N5 | | | | | | | | Y | | yes |
| 29.198-14 | Open Service Access (OSA) Application Programming Interface (API); Part 13: Presence and Availability Management (PAM) | N5 | | | | | | | | Y | | yes |
| 29.200 | Signalling System No. 7; Mobile Application Part (MAP); Security signalling flows for the Ze interface | N4 | | | | | | | | | Y | yes |
| 29.202 | Signalling System No. 7 (SS7) signalling transport in core network; Stage 3 | N4 | | | | | | | Y | Y | | yes |
| 29.203 | Feasibility study on SS7 signalling transportation in the core network with SCCP-User Adaptation (SUA) | N4 | | | | | | | | w | | |
| 29.205 | Application of Q.1900 series to bearer-independent circuit-switched core network architecture; Stage 3 | N4 | | | | | | | Y | Y | | yes |
| 29.207 | Policy control over Go interface | N3 | | | | | | | | Y | | yes |
| 29.208 | End to end Quality of Service (QoS) signalling flows | N3 | | | | | | | | Y | | yes |
| 29.226 | reserved | N4 | | | | | | | | w | | |
| 29.228 | IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Signalling flows and message contents | N4 | | | | | | | | Y | | yes |
| 29.229 | Cx and Dx interfaces based on the Diameter protocol; Protocol details | N4 | | | | | | | | Y | | yes |
| 29.232 | Media Gateway Controller (MGC) - Media Gateway (MGW) interface; Stage 3 | N4 | | | | | | | Y | Y | | yes |
| 29.240 | 3GPP generic user profile requirements; Stage 3; Network | N4 | | | | | | | | Y | | yes |

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| 29.278 | Customised Applications for Mobile network Enhanced Logic (CAMEL); CAMEL Application Part (CAP) specification for IP Multimedia Subsystems (IMS) | N2 | | | | | | | | Y | | yes |
| 29.328 | IP Multimedia Subsystem (IMS) Sh interface signalling flows and message contents | N4 | | | | | | | | Y | | yes |
| 29.329 | Sh interface based on the Diameter protocol | N4 | | | | | | | | Y | | yes |
| 29.332 | Media Gateway Control Function (MGCF) - IM Media Gateway (IM-MGW) Mc interface; Stage 3 | N4 | | | | | | | | | Y | yes |
| 29.333 | Multimedia Resource Function Controller (MRFC) - Multimedia Resource Function Processor (MRFP) Mp interface; Stage 3 | N4 | | | | | | | | | Y | yes |
| 29.414 | Core network Nb data transport and transport signalling | N3 | | | | | | | Y | Y | | yes |
| 29.415 | Core network Nb interface user plane protocols | N3 | | | | | | | Y | Y | | yes |
| 29.846 | Multimedia Broadcast/Multicast Service (MBMS); CN1 procedure description | N1 | | | | | | | | | Y | yes |
| 29.903 | Feasibility study on SS7 signalling transportation in the core network with SCCP-User Adaptation (SUA) | N4 | | | | | | | | Y | | yes |
| 29.962 | Signalling interworking between the 3GPP profile of the Session Initiation Protocol (SIP) and non-3GPP SIP usage | N3 | | | | | | | | | Y | yes |
| 29.993 | Modifications to be incorporated in equipment to cater for errors in the standards | RP | | | | | | Y | Y | Y | | yes |
| 29.994 | Recommended infrastructure measures to overcome specific Mobile Station (MS) and User Equipment (UE) faults | N1 | | | | | | Y | Y | Y | Y | yes |
| 29.998 | Open Services Architecture API part 2 | N5 | | | | | | Y | | | | yes |
| 29.998-01 | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 1: General Issues on API Mapping | N5 | | | | | | | Y | Y | | yes |
| 29.998-04-1 | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 1: API to CAP Mapping | N5 | | | | | | | Y | Y | | yes |
| 29.998-04-2 | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 2: INAP | N5 | | | | | | | | w | | |

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| 29.998-04-3 | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 3: MEGACO mapping | N5 | | | | | | | | Y | | |
| 29.998-04-4 | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 4: Call Control Service Mapping; Subpart 4: Multiparty Call Control SIP | N5 | | | | | | | | Y | | yes |
| 29.998-05-1 | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 1: API to CAP Mapping | N5 | | | | | | | Y | Y | | yes |
| 29.998-05-2 | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 2: INAP mapping | N5 | | | | | | | | Y | | yes |
| 29.998-05-3 | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 3: MEGACO mapping | N5 | | | | | | | | Y | | yes |
| 29.998-05-4 | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 4: API to SMS Mapping | N5 | | | | | | | Y | Y | | yes |
| 29.998-06 | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 6: User Location and User Status Service Mapping to MAP | N5 | | | | | | | Y | Y | | yes |
| 29.998-08 | Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 8: Data Session Control Service Mapping to CAP | N5 | | | | | | | Y | Y | | yes |
| 30.002 | Guidelines for the modification of the Mobile Application Part (MAP) | N4 | | | | | | | Y | | | yes |
| 30.00U | SMG - UMTS Work programme | - | | | | | | | | | | |
| 30.01U | UMTS Baseline document: Collection of the SMG's positions on the UMTS | - | | | | | | | | | | |
| 30.02U | Experience from GSM standardisation to be applied at UMTS standardisation | - | | | | | | | | | | |
| 30.03U | Selection procedures for the choice of radio transmission technologies of the UMTS | GP | | | | | | | | | | |

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|--------|--|----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 30.04U | Definition of the limited number of UTRA concepts | GP | | | | | | | | | | |
| 30.05U | UMTS terminology | - | | | | | | | | | | |
| 30.06U | UTRA Concept Evaluation Reports | GP | | | | | | | | | | |
| 30.20U | Technical characteristics, capabilities and limitations of mobile satellite systems applicable to the UMTS | - | | | | | | | | | | |
| 30.504 | Work Plan and Study Items - RAN WG4 | R4 | | | | | | | Y | | | yes |
| 30.531 | Work Plan and Study Items - RAN WG3 | R3 | | | | | | Y | | | | yes |
| 30.801 | Overall Project Plan | S2 | | | | | | | w | | | |
| 30.802 | Project plan on Bearer Services and QoS | S2 | | | | | | | w | | | |
| 30.804 | Project plan on GSM/UMTS Interoperation and Mobility Management | S2 | | | | | | | w | | | |
| 30.806 | Project plan on Location based services | S2 | | | | | | | w | | | |
| 30.808 | Project plan on Packet Architecture and Circuit Architecture | S2 | | | | | | | w | | | |
| 30.810 | Project plan on Security | S2 | | | | | | | w | | | |
| 30.812 | Project plan on Services and Service platforms | S2 | | | | | | | w | | | |
| 31.048 | Test specification for security mechanisms for the (U)SIM application toolkit | T3 | | | | | | | Y | Y | | yes |
| 31.101 | UICC-terminal interface; Physical and logical characteristics | T3 | | | | | | Y | Y | Y | Y | yes |
| 31.102 | Characteristics of the USIM Application | T3 | | | | | | Y | Y | Y | | yes |
| 31.103 | Characteristics of the ISIM application | T3 | | | | | | | | Y | | yes |
| 31.110 | Numbering system for telecommunication IC card applications | T3 | | | | | | Y | Y | | | yes |
| 31.111 | USIM Application Toolkit (USAT) | T3 | | | | | | Y | Y | Y | | yes |
| 31.112 | USAT Interpreter Architecture Description; Stage 2 | T3 | | | | | | | | Y | | yes |
| 31.113 | USAT interpreter byte codes | T3 | | | | | | | | Y | Y | yes |
| 31.114 | USAT interpreter protocol and administration | T3 | | | | | | | | Y | Y | yes |
| 31.115 | Secured packet structure for (U)SIM Toolkit applications | T3 | | | | | | | | w | Y | yes |
| 31.116 | Remote APDU Structure for (U)SIM Toolkit applications | T3 | | | | | | | | w | Y | yes |
| 31.120 | UICC-terminal interface; Physical, electrical and logical test specification | T3 | | | | | | Y | Y | | | yes |
| 31.121 | UICC-terminal interface; USIM application test specification | T3 | | | | | | Y | Y | | | yes |
| 31.122 | USIM conformance test specification | T3 | | | | | | Y | Y | | | yes |
| 31.131 | C-language binding for (U)SIM API | T3 | | | | | | | | w | Y | yes |
| 31.900 | SIM/USIM internal and external interworking aspects | T3 | | | | | | w | w | Y | | yes |

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|----------|---|-------|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 32.005 | Telecommunications Management; Charging and billing; 3G call and event data for the Circuit Switched (CS) domain | S5 | | | | | | Y | | | | yes |
| 32.008 | Subscriber and Equipment trace | - | | | | | | w | | | | |
| 32.015 | Telecommunications Management; Charging and billing; 3G call and event data for the Packet Switched (PS) domain | S5 | | | | | | Y | | | | yes |
| 32.01U | Overall principles of the OAM for the UMTS | SMG12 | | | | | | | | | | |
| 32.101 | Telecommunication management; Principles and high level requirements | S5 | | | | | | Y | Y | Y | | yes |
| 32.102 | Telecommunication management; Architecture | S5 | | | | | | Y | Y | Y | | yes |
| 32.104 | 3G Performance Management | S5 | | | | | | Y | w | | | yes |
| 32.105 | 3G charging and billing; Stage 2 description | S5 | | | | | | | w | | | |
| 32.106 | Configuration Management | S5 | | | | | | w | | | | |
| 32.106-1 | Telecommunication management; Configuration Management (CM); Part 1: Concept and requirements | S5 | | | | | | Y | w | | | yes |
| 32.106-2 | Telecommunication management; Configuration Management (CM); Part 2: Notification Integration Reference Point; Information Service version 1 | S5 | | | | | | Y | w | | | yes |
| 32.106-3 | Telecommunication management; Configuration Management (CM); Part 3: Notification Integration Reference Point; CORBA solution set version 1:1 | S5 | | | | | | Y | w | | | yes |
| 32.106-4 | Telecommunication management; Configuration Management (CM); Part 4: Notification Integration Reference Point: CMIP Solution Set Version 1:1 | S5 | | | | | | Y | w | | | yes |
| 32.106-5 | Telecommunication management; Configuration Management (CM); Part 5: Basic Configuration Management Integration Reference Point (IRP) information model (including NRM) version 1 | S5 | | | | | | Y | w | | | yes |
| 32.106-6 | Telecommunication management; Configuration Management (CM); Part 6: Basic Configuration Management Integration Reference Point (IRP) CORBA solution set version 1:1 | S5 | | | | | | Y | w | | | yes |
| 32.106-7 | Telecommunication management; Configuration Management (CM); Part 7: Basic Configuration Management Integration Reference Point (IRP) CMIP solution set version 1:1 | S5 | | | | | | Y | w | | | yes |

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| 32.106-8 | Telecommunication management; Configuration Management (CM); Part 8: Name convention for Managed Objects | S5 | | | | | | Y | w | | | yes |
| 32.108 | Telecommunication management; Subscriber and equipment trace | S5 | | | | | | | | w | w | |
| 32.111 | 3G Fault Management | S5 | | | | | | w | w | | | |
| 32.111-1 | Telecommunication management; Fault Management; Part 1: 3G fault management requirements | S5 | | | | | | Y | Y | Y | | yes |
| 32.111-2 | Telecommunication management; Fault Management; Part 2: Alarm Integration Reference Point: Information Service | S5 | | | | | | Y | Y | Y | | yes |
| 32.111-3 | Telecommunication management; Fault Management; Part 3: Alarm Integration Reference Point: CORBA solution set version 1:1 | S5 | | | | | | Y | Y | Y | | yes |
| 32.111-4 | Telecommunication management; Fault Management; Part 4: Alarm Integration Reference Point: CMIP solution set | S5 | | | | | | Y | Y | Y | | yes |
| 32.112 | Telecommunication management; Fault Management; Alarm Integration Reference Point: Information Service | S5 | | | | | | | | w | | |
| 32.112-1 | Telecommunication management; Generic Integration Reference Point (IRP) management; Part 1: Requirements | S5 | | | | | | | w | | | |
| 32.112-2 | Telecommunication management; Generic Integration Reference Point (IRP) management; Part 2: Information service | S2 | | | | | | | w | | | |
| 32.113 | Telecommunication management; Fault Management; Alarm Integration Reference Point: CORBA solution set version 1:1 | S5 | | | | | | | | w | | |
| 32.114 | Telecommunication management; Fault Management; Alarm Integration Reference Point: CMIP solution set | S5 | | | | | | | | w | | |
| 32.140 | Telecommunication management; Services operations management; Subscription management requirements | S5 | | | | | | | w | w | Y | yes |
| 32.141 | Telecommunication management; Services operations management; Subscription management architecture | S5 | | | | | | | | | Y | yes |

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|----------|---|----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 32.150 | Telecommunication management; User Equipment Management (UEM); UEM requirements and architecture; Stages 1 and 2 | S5 | | | | | | | | | Y | yes |
| 32.200 | Telecommunication management; Charging management; Charging principles | S5 | | | | | | | Y | Y | | yes |
| 32.205 | Telecommunication management; Charging management; Charging data description for the Circuit Switched (CS) domain | S5 | | | | | | | Y | Y | | yes |
| 32.215 | Telecommunication management; Charging management; Charging data description for the Packet Switched (PS) domain | S5 | | | | | | | Y | Y | | yes |
| 32.225 | Telecommunication management; Charging management; Charging data description for the IP Multimedia Subsystem (IMS) | S5 | | | | | | | | Y | | yes |
| 32.235 | Telecommunication management; Charging management; Charging data description for application services | S5 | | | | | | | Y | Y | | yes |
| 32.300 | Telecommunication management; Configuration Management (CM); Name convention for Managed Objects | S5 | | | | | | | Y | Y | | yes |
| 32.301 | Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): requirements | S5 | | | | | | | Y | Y | | yes |
| 32.301-1 | Telecommunication management; Configuration Management (CM); Notification Integration Reference Point (IRP): requirements | S5 | | | | | | | w | | | |
| 32.301-2 | Telecommunication management; Configuration Management (CM); Part 2: Notification Integration Reference Point; Information Service version 1 | S5 | | | | | | | w | | | |
| 32.301-3 | Telecommunication management; Configuration Management (CM); Part 3: Notification Integration Reference Point; CORBA solution set version 1:1 | S5 | | | | | | | w | | | |
| 32.301-4 | Telecommunication management; Configuration Management (CM); Part 4: Notification Integration Reference Point: CMIP Solution Set Version 1:1 | S5 | | | | | | | w | | | |
| 32.302 | Telecommunication management; Configuration Management (CM); Notification Integration Reference Point; Information Service version 1 | S5 | | | | | | | Y | Y | | yes |

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|----------|---|----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 32.303 | Telecommunication management; Configuration Management (CM); Notification Integration Reference Point; CORBA solution set version 1:1 | S5 | | | | | | | Y | Y | | yes |
| 32.304 | Telecommunication management; Configuration Management (CM); Notification Integration Reference Point: CMIP Solution Set Version 1:1 | S5 | | | | | | | Y | Y | | yes |
| 32.311 | Telecommunication management; Generic Integration Reference Point (IRP) management; Requirements | S5 | | | | | | | Y | Y | | yes |
| 32.312 | Telecommunication management; Generic Integration Reference Point (IRP) management; Information service | S5 | | | | | | | Y | Y | | yes |
| 32.312-1 | Telecommunication management; Generic Integration Reference Point (IRP) management; Requirements | S5 | | | | | | | w | | | |
| 32.312-2 | Telecommunication management; Generic Integration Reference Point (IRP) management; Information service | S5 | | | | | | | | w | | |
| 32.321 | Telecommunication management; Test management Integration Reference Point (IRP); Requirements | S5 | | | | | | | | Y | | yes |
| 32.322 | Telecommunication management; Test management Integration Reference Point (IRP); Information service | S5 | | | | | | | | Y | | yes |
| 32.323 | Telecommunication management; Test management Integration Reference Point (IRP); Corba solution set | S5 | | | | | | | | Y | | yes |
| 32.324 | Telecommunication management; Test management Integration Reference Point (IRP); CMIP solution set | S5 | | | | | | | | Y | | yes |
| 32.401 | Telecommunication management; Performance Management (PM); Concept and requirements | S5 | | | | | | | Y | Y | | yes |
| 32.402 | Telecommunication management; Performance Management (PM); Performance measurements - GSM | S5 | | | | | | | w | | | |
| 32.403 | Telecommunication management; Performance Management (PM); Performance measurements - UMTS and combined UMTS/GSM | S5 | | | | | | | Y | Y | | yes |

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|----------|---|----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 32.411 | Telecommunication management; Performance Management (PM) Integration Reference Point (IRP); Requirements | S5 | | | | | | | | | Y | yes |
| 32.412 | Telecommunication management; Performance Management (PM) Integration Reference Point (IRP); Information services | S5 | | | | | | | | | Y | yes |
| 32.413 | Telecommunication management; Performance Management (PM) Integration Reference Point (IRP); CORBA solution set | S5 | | | | | | | | | Y | yes |
| 32.421 | Telecommunication management; Subscriber and equipment trace: Trace concepts and requirements | S5 | | | | | | | | | Y | yes |
| 32.422 | Telecommunication management; Subscriber and equipment trace: Trace control and Configuration Management | S5 | | | | | | | | | Y | yes |
| 32.423 | Telecommunication management; Subscriber and equipment trace: Trace data definition and management | S5 | | | | | | | | | Y | yes |
| 32.600 | Telecommunication management; Configuration Management (CM); Concept and high-level requirements | S5 | | | | | | | Y | Y | | yes |
| 32.601 | Telecommunication management; Configuration Management (CM); Basic CM Integration Reference Point (IRP): requirements | S5 | | | | | | | Y | Y | | yes |
| 32.601-1 | Telecommunication management; Configuration Management (CM); Part 1: Basic CM Integration Reference Point (IRP): requirements | S5 | | | | | | | w | | | |
| 32.601-2 | Telecommunication management; Configuration Management (CM); Part 2: Basic Configuration Management Integration Reference Point (IRP) information model | S5 | | | | | | | w | | | |
| 32.601-3 | Telecommunication management; Configuration Management (CM); Part 3: Basic Configuration Management Integration Reference Point (IRP): CORBA solution set | S5 | | | | | | | w | | | |
| 32.601-4 | Telecommunication management; Configuration Management (CM); Part 4: Basic Configuration Management Integration Reference Point (IRP) CMIP solution set | S5 | | | | | | | w | | | |

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|----------|--|----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 32.602 | Telecommunication management; Configuration Management (CM); Basic Configuration Management Integration Reference Point (IRP) information service | S5 | | | | | | | Y | Y | | yes |
| 32.602-1 | Telecommunication management; Configuration Management (CM); Configuration Management: Bulk CM Integration Reference Point (IRP) requirements | S5 | | | | | | | w | | | |
| 32.602-2 | Telecommunication management; Configuration Management (CM); Configuration Management: Bulk Configuration Management Integration Reference Point (IRP): Information service | S5 | | | | | | | w | | | |
| 32.602-3 | Telecommunication management; Configuration Management (CM); Configuration Management: Bulk Configuration Management Integration Reference Point (IRP): CORBA solution set | S5 | | | | | | | w | | | |
| 32.602-4 | Telecommunication management; Configuration Management (CM); Configuration Management: Bulk Configuration Management Integration Reference Point (IRP): CMIP solution set | S5 | | | | | | | w | | | |
| 32.602-5 | Telecommunication management; Configuration Management (CM); Configuration Management: Bulk Configuration Management Integration Reference Point (IRP): XML file format definition | S5 | | | | | | | w | | | |
| 32.603 | Telecommunication management; Configuration Management (CM); Basic Configuration Management Integration Reference Point (IRP): CORBA solution set | S5 | | | | | | | Y | Y | | yes |
| 32.604 | Telecommunication management; Configuration Management (CM); Basic Configuration Management Integration Reference Point (IRP) CMIP solution set | S5 | | | | | | | Y | Y | | yes |
| 32.611 | Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); Requirements | S5 | | | | | | | Y | Y | | yes |
| 32.612 | Telecommunication management; Configuration Management (CM); Bulk CM Integration Reference Point (IRP); Information service | S5 | | | | | | | Y | Y | | yes |

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

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| 32.621-3 | Telecommunication management; Configuration Management (CM); Part 3: Core network resources Integration Reference Point (IRP): CORBA solution set | S5 | | | | | | | w | | | |
| 32.621-4 | Telecommunication management; Configuration Management (CM); Part 4: Core network resources Integration Reference Point (IRP): CMIP solution set | S5 | | | | | | | w | | | |
| 32.622 | Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): Network Resource Model (NRM) | S5 | | | | | | | Y | Y | | yes |
| 32.622-1 | Telecommunication management; Configuration Management (CM); Part 1: UTRAN network resources Integration Reference Point (IRP): requirements | S5 | | | | | | | w | | | |
| 32.622-2 | Telecommunication management; Configuration Management (CM); Part 2: UTRAN network resources Integration Reference Point (IRP): NRM | S5 | | | | | | | w | | | |
| 32.622-3 | Telecommunication management; Configuration Management (CM); Part 3: UTRAN network resources Integration Reference Point (IRP): CORBA solution set | S5 | | | | | | | w | | | |
| 32.622-4 | Telecommunication management; Configuration Management (CM); Part 4: UTRAN network resources Integration Reference Point (IRP): CMIP solution set | S5 | | | | | | | w | | | |
| 32.623 | Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): CORBA solution set | S5 | | | | | | | Y | Y | | yes |
| 32.623-1 | Telecommunication management; Configuration Management (CM); Part 1: GERAN network resources Integration Reference Point (IRP): requirements | S5 | | | | | | | w | | | |
| 32.623-2 | Telecommunication management; Configuration Management (CM); Part 2: GERAN network resources Integration Reference Point (IRP): NRM | S5 | | | | | | | w | | | |
| 32.623-3 | Telecommunication management; Configuration Management (CM); Part 3: GERAN network resources Integration Reference Point (IRP): CORBA solution set | S5 | | | | | | | w | | | |

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| 32.623-4 | Telecommunication management; Configuration Management (CM); Part 4: GERAN network resources Integration Reference Point (IRP): CMIP solution set | S5 | | | | | | | w | | | |
| 32.624 | Telecommunication management; Configuration Management (CM); Generic network resources: Integration Reference Point (IRP) CMIP solution set | S5 | | | | | | | Y | Y | | yes |
| 32.625 | Telecommunication management; Configuration Management (CM); Generic network resources Integration Reference Point (IRP): Bulk CM eXtensible Markup Language (XML) file format definition | S5 | | | | | | | | Y | | yes |
| 32.631 | Telecommunication management; Configuration Management (CM); Core network resources Integration Reference Point (IRP): requirements | S5 | | | | | | | Y | Y | | yes |
| 32.632 | Telecommunication management; Configuration Management (CM); Core Network Resources Integration Reference Point (IRP): Network Resource Model (NRM) | S5 | | | | | | | Y | Y | | yes |
| 32.633 | Telecommunication management; Configuration Management (CM); Core network resources Integration Reference Point (IRP): CORBA solution set | S5 | | | | | | | Y | Y | | yes |
| 32.634 | Telecommunication management; Configuration Management (CM); Core network resources Integration Reference Point (IRP): CMIP solution set | S5 | | | | | | | Y | Y | | yes |
| 32.635 | Telecommunication management; Configuration Management (CM); Core network resources Integration Reference Point (IRP): Bulk CM eXtensible Markup Language (XML) file format definition | S5 | | | | | | | | Y | | yes |
| 32.641 | Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): requirements | S5 | | | | | | | Y | Y | | yes |
| 32.642 | Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): Network Resource Model (NRM) | S5 | | | | | | | Y | Y | | yes |

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| 32.643 | Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): CORBA solution set | S5 | | | | | | | Y | Y | | yes |
| 32.644 | Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): CMIP solution set | S5 | | | | | | | Y | Y | | yes |
| 32.645 | Telecommunication management; Configuration Management (CM); UTRAN network resources Integration Reference Point (IRP): Bulk CM eXtensible Markup Language (XML) file format definition | S5 | | | | | | | | Y | | yes |
| 32.651 | Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP): requirements | S5 | | | | | | | Y | Y | | yes |
| 32.652 | Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP): Network Resource Model (NRM) | S5 | | | | | | | Y | Y | | yes |
| 32.653 | Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP): CORBA solution set | S5 | | | | | | | Y | Y | | yes |
| 32.654 | Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP): CMIP solution set | S5 | | | | | | | Y | Y | | yes |
| 32.655 | Telecommunication management; Configuration Management (CM); GERAN network resources Integration Reference Point (IRP): Bulk CM eXtensible Markup Language (XML) file format definition | S5 | | | | | | | | Y | | yes |
| 32.661 | Telecommunication management; Configuration Management (CM); Kernel CM requirements | S5 | | | | | | | | Y | | yes |
| 32.662 | Telecommunication management; Configuration Management (CM); Kernel CM information service | S5 | | | | | | | | Y | | yes |
| 32.663 | Telecommunication management; Configuration Management (CM); Kernel CM CORBA solution set | S5 | | | | | | | | Y | Y | yes |
| 32.664 | Telecommunication management; Configuration Management (CM); Kernel CM CMIP solution set | S5 | | | | | | | | Y | Y | yes |

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| 32.671 | Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP) : Requirements | S5 | | | | | | | | Y | | yes |
| 32.672 | Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP): Information service | S5 | | | | | | | | Y | | yes |
| 32.673 | Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP): CORBA Solution set | S5 | | | | | | | | Y | | yes |
| 32.674 | Telecommunication management; Configuration Management (CM); State Management Integration Reference Point (IRP): CMIP Solution set | S5 | | | | | | | | Y | | yes |
| 32.681 | Telecommunication management; Inventory management; Inventory management Integration Reference Point (IRP): Requirements | S5 | | | | | | | | w | Y | yes |
| 32.682 | Telecommunication management; Inventory management; Inventory management Integration Reference Point (IRP): Information service | S5 | | | | | | | | w | Y | yes |
| 32.683 | Telecommunication management; Inventory management; Inventory management Integration Reference Point (IRP): CORBA solution set | S5 | | | | | | | | w | Y | yes |
| 32.684 | Telecommunication management; Inventory management; Inventory management Integration Reference Point (IRP): CMIP solution set | S5 | | | | | | | | w | Y | yes |
| 32.691 | Telecommunication management; Inventory management network resources Integration Reference Point (IRP): Requirements | S5 | | | | | | | | Y | | yes |
| 32.692 | Telecommunication management; Inventory management network resources Integration Reference Point (IRP): Network resource model | S5 | | | | | | | | Y | | yes |
| 32.800 | Telecommunication management; Management level procedures and interaction with UTRAN | S5 | | | | | | | Y | Y | | yes |
| 32.801 | Performance management | S5 | | | | | | | | w | | |

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| 32.802 | Telecommunication management; User Equipment Management (UEM) feasibility study | S5 | | | | | | | | Y | | yes |
| 33.102 | 3G security; Security architecture | S3 | | | | | | Y | Y | Y | | yes |
| 33.103 | 3G security; Integration guidelines | S3 | | | | | | Y | Y | | | yes |
| 33.105 | Cryptographic Algorithm requirements | S3 | | | | | | Y | Y | | | yes |
| 33.106 | Lawful interception requirements | S3 | | | | | | Y | Y | Y | | yes |
| 33.107 | 3G security; Lawful interception architecture and functions | S3 | | | | | | Y | Y | Y | | yes |
| 33.108 | 3G security; Handover interface for Lawful Interception (LI) | S3 | | | | | | | | Y | | yes |
| 33.120 | Security Objectives and Principles | S3 | | | | | | Y | Y | | | yes |
| 33.200 | 3G Security; Network Domain Security (NDS); Mobile Application Part (MAP) application layer security | S3 | | | | | | | Y | Y | | yes |
| 33.201 | Access domain security | S3 | | | | | | | | Y | | yes |
| 33.203 | 3G security; Access security for IP-based services | S3 | | | | | | | | Y | | yes |
| 33.20U | Security principles for the UMTS | - | | | | | | | | | | |
| 33.210 | 3G security; Network Domain Security (NDS); IP network layer security | S3 | | | | | | | | Y | | yes |
| 33.21U | Security requirements | - | | | | | | | | | | |
| 33.234 | 3G security; Wireless Local Area Network (WLAN) interworking security | S3 | | | | | | | | | Y | yes |
| 33.246 | 3G Security; Security of Multimedia Broadcast/Multicast Service (MBMS) | S3 | | | | | | | | | Y | yes |
| 33.800 | Principles for Network Domain Security | S3 | | | | | | | w | w | | |
| 33.810 | 3G Security; Network Domain Security / Authentication Framework (NDS/AF); Feasibility Study to support NDS/IP evolution | S3 | | | | | | | | | Y | yes |
| 33.900 | Guide to 3G security | S3 | | | | | | w | w | Y | | yes |
| 33.901 | Criteria for cryptographic Algorithm design process | S3 | | | | | | Y | Y | | | yes |
| 33.902 | Formal Analysis of the 3G Authentication Protocol | S3 | | | | | | Y | Y | | | yes |
| 33.903 | Access Security for IP based services | S3 | | | | | | | Y | Y | | yes |
| 33.904 | Report on the Evaluation of 3GPP Standard Confidentiality and Integrity Algorithms | S3 | | | | | | | Y | | | |
| 33.908 | 3G Security; General report on the design, specification and evaluation of 3GPP standard confidentiality and integrity algorithms | S3 | | | | | | Y | Y | | | yes |

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| 33.909 | 3G Security; Report on the design and evaluation of the MILENAGE algorithm set; Deliverable 5: An example algorithm for the 3GPP authentication and key generation functions | S3 | | | | | | w | Y | | | yes |
| 33.910 | 3G Security; Network Domain Security / Authentication Framework (NDS/AF); Feasibility Study to support NDS/IP evolution | S3 | | | | | | | | | w | |
| 34.108 | Common test environments for User Equipment (UE) conformance testing | T1 | | | | | | Y | Y | | | yes |
| 34.109 | Terminal logical test interface; Special conformance testing functions | R2 | | | | | | Y | Y | Y | | yes |
| 34.121 | Terminal Conformance Specification, Radio Transmission and Reception (FDD) | T1 | | | | | | Y | Y | | | yes |
| 34.122 | Terminal Conformance Specification, Radio Transmission and Reception (TDD) | T1 | | | | | | Y | Y | | | yes |
| 34.123-1 | User Equipment (UE) conformance specification; Part 1: Protocol conformance specification | T1 | | | | | | Y | Y | Y | | yes |
| 34.123-2 | User Equipment (UE) conformance specification; Part 2: Implementation conformance statement (ICS) specification | T1 | | | | | | Y | Y | Y | | yes |
| 34.123-3 | User Equipment (UE) conformance specification; Part 3: Abstract test suites (ATSS) | T1 | | | | | | Y | Y | | | yes |
| 34.124 | Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment | R4 | | | | | | Y | Y | Y | | yes |
| 34.131 | Test specification for C-language binding for (U)SIM API | T3 | | | | | | | | | Y | yes |
| 34.801 | (reserved for T1 RF group) | T1 | | | | | | | | | | |
| 34.901 | Test Time Optimisation based on statistical approaches; Statistical theory applied and evaluation of statistical significance | T1 | | | | | | Y | | | | yes |
| 34.907 | Report on electrical safety requirements and regulations | T2 | | | | | | Y | | | | yes |
| 34.910 | Identification of test requirements for regulatory purposes in different regions/countries | T1 | | | | | | | Y | | | yes |
| 34.925 | Specific Absorption Rate (SAR) requirements and regulations in different regions | T2 | | | | | | Y | | | | yes |
| 34.926 | Table of international EMC requirements | R4 | | | | | | | Y | Y | | yes |

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| 35.201 | Specification of the 3GPP confidentiality and integrity algorithms; Document 1: f8 and f9 specifications | S3 | | | | | | Y | Y | Y | | yes |
| 35.202 | Specification of the 3GPP confidentiality and integrity algorithms; Document 2: Kasumi algorithm specification | S3 | | | | | | Y | Y | Y | | yes |
| 35.203 | Specification of the 3GPP confidentiality and integrity algorithms; Document 3: Implementors' test data | S3 | | | | | | Y | Y | Y | | yes |
| 35.204 | Specification of the 3GPP confidentiality and integrity algorithms; Document 4: Design conformance test data | S3 | | | | | | Y | Y | Y | | yes |
| 35.205 | 3G Security; Specification of the MILENAGE Algorithm Set: An example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 1: General | S3 | | | | | | w | Y | Y | | yes |
| 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 | | | | | | w | Y | Y | | yes |
| 35.207 | 3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 3: Implementors' test data | S3 | | | | | | w | Y | Y | | yes |
| 35.208 | 3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 4: Design conformance test data | S3 | | | | | | w | Y | Y | | yes |
| 35.209 | 3G Security; Specification of the MILENAGE algorithm set: An example algorithm Set for the 3GPP Authentication and Key Generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 5: Summary and results of design and evaluation | S3 | | | | | | w | | | | |
| 35.909 | 3G Security; Specification of the MILENAGE algorithm set: an example algorithm set for the 3GPP authentication and key generation functions f1, f1*, f2, f3, f4, f5 and f5*; Document 5: Summary and results of design and evaluation | S3 | | | | | | | Y | Y | | yes |
| 41.001 | GSM Specification set | SP | | | | | | | w | | | |

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| 41.031 | Fraud Information Gathering System (FIGS); Service requirements; Stage 0 | S3 | | | | | | | Y | Y | | yes |
| 41.033 | Lawful Interception requirements for GSM | S3 | | | | | | | Y | Y | | yes |
| 41.061 | General Packet Radio Service (GPRS); GPRS ciphering algorithm requirements | S3 | | | | | | | Y | | | yes |
| 41.102 | GSM Release 4 specifications | SP | | | | | | | Y | | | yes |
| 41.103 | GSM Release 5 specifications | SP | | | | | | | | Y | | yes |
| 41.104 | GSM Release 6 specifications | SP | | | | | | | | | Y | yes |
| 41.811 | Uplink - Time Difference Of Arrival (U-TDOA) in GSM and GPRS | G1 | | | | | | | | | w | |
| 42.009 | Security Aspects | S3 | | | | | | | Y | | | yes |
| 42.017 | Subscriber Identity Module (SIM); Functional characteristics | T3 | | | | | | | Y | | | yes |
| 42.019 | Subscriber Identity Module Application Programming Interface (SIM API); Stage 1 | T3 | | | | | | | Y | Y | w | yes |
| 42.031 | Fraud Information Gathering System (FIGS); Service description; Stage 1 | S3 | | | | | | | Y | Y | | yes |
| 42.032 | Immediate Service Termination (IST); Service description; Stage 1 | S3 | | | | | | | w | w | | |
| 42.033 | Lawful Interception; Stage 1 | S3 | | | | | | | Y | Y | | yes |
| 42.043 | Support of Localised Service Area (SoLSA); Service description; Stage 1 | S1 | | | | | | | Y | Y | | yes |
| 42.048 | Security mechanisms for the SIM Application Toolkit; Stage 1 | T3 | | | | | | | w | | | |
| 42.053 | Tandem Free Operation (TFO); Service description; Stage 1 | S4 | | | | | | | w | | | |
| 42.056 | GSM Cordless Telephony System (CTS), Phase 1; Service description; Stage 1 | S1 | | | | | | | Y | Y | | yes |
| 42.068 | Voice Group Call Service (VGCS); Stage 1 | S1 | | | | | | | Y | Y | | yes |
| 42.069 | Voice Broadcast Service (VBS); Stage 1 | S1 | | | | | | | Y | Y | | yes |
| 43.005 | Technical performance objectives | NP | | | | | | | Y | Y | | yes |
| 43.010 | GSM Public Land Mobile Network (PLMN) connection types | N3 | | | | | | | Y | Y | | yes |
| 43.013 | Discontinuous Reception (DRX) in the GSM system | G1 | | | | | | | Y | Y | | yes |
| 43.019 | Subscriber Identity Module Application Programming Interface (SIM API) for Java Card; Stage 2 | T3 | | | | | | | Y | Y | | yes |
| 43.020 | Security-related network functions | S3 | | | | | | | Y | Y | | yes |
| 43.022 | Functions related to Mobile Station (MS) in idle mode and group receive mode | G1 | | | | | | | Y | Y | | yes |
| 43.026 | Multiband operation of GSM / DCS 1800 by a single operator | G1 | | | | | | | Y | Y | | yes |
| 43.030 | Radio network planning aspects | G1 | | | | | | | Y | Y | | yes |
| 43.031 | Fraud Information Gathering System (FIGS); Service description; Stage 2 | S3 | | | | | | | Y | Y | | yes |

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| 43.033 | Lawful Interception; Stage 2 | S3 | | | | | | | Y | Y | | yes |
| 43.035 | Immediate Service Termination (IST); Stage 2 | S3 | | | | | | | w | w | | |
| 43.045 | Technical Realization of Facsimile Group 3 Service - transparent | N3 | | | | | | | Y | Y | | yes |
| 43.046 | Technical Realization of Facsimile Group 3 Service - non transparent | N3 | | | | | | | w | | | |
| 43.048 | Security Mechanisms for SIM Toolkit Application; Stage 2 | T3 | | | | | | | w | | | |
| 43.050 | Transmission Planning Aspects of the Speech Service in the GSM Public Land Mobile Network (PLMN) System | S4 | | | | | | | Y | Y | | yes |
| 43.051 | GSM/EDGE Radio Access Network (GERAN) overall description; Stage 2 | G1 | | | | | | | w | Y | | yes |
| 43.052 | Lower layers of the GSM Cordless Telephony System (CTS) radio interface; Stage 2 | G1 | | | | | | | Y | Y | | yes |
| 43.055 | Dual Transfer Mode (DTM); Stage 2 | G1 | | | | | | | Y | Y | | yes |
| 43.058 | Characterisation, test methods and quality assessment for handsfree Mobile Stations (MSs) | S4 | | | | | | | Y | Y | | yes |
| 43.059 | Functional stage 2 description of Location Services (LCS) in GERAN | G1 | | | | | | | Y | Y | | yes |
| 43.063 | Packet Data on Signalling channels service (PDS) Service description, Stage 2 | N1 | | | | | | | w | | | |
| 43.064 | Overall description of the GPRS radio interface; Stage 2 | G1 | | | | | | | Y | Y | | yes |
| 43.068 | Voice Group Call Service (VGCS); Stage 2 | N1 | | | | | | | Y | Y | | yes |
| 43.069 | Voice Broadcast service (VBS); Stage 2 | N1 | | | | | | | Y | Y | | yes |
| 43.071 | Location Services (LCS); Functional description; Stage 2 (GSM) | S2 | | | | | | | w | | | |
| 43.073 | Support of Localised Service Area (SoLSA); Stage 2 | N4 | | | | | | | Y | Y | | yes |
| 43.130 | Iur-g interface; Stage 2 | G1 | | | | | | | | Y | | yes |
| 43.900 | Support for voice optimization for the IMS in the GERAN | G1 | | | | | | | | Y | | yes |
| 43.930 | Iur-g interface; Stage 2 | G2 | | | | | | | | w | | |
| 44.001 | Mobile Station - Base Station System (MS - BSS) Interface General Aspects and Principles | N1 | | | | | | | Y | Y | | yes |
| 44.003 | Mobile Station - Base Station System (MS - BSS) Interface Channel Structures and Access Capabilities | G2 | | | | | | | Y | Y | | yes |
| 44.004 | Layer 1 - General Requirements | G2 | | | | | | | Y | Y | | yes |
| 44.005 | Data Link (DL) Layer General Aspects | G2 | | | | | | | Y | Y | | yes |
| 44.006 | Mobile Station - Base Stations System (MS - BSS) Interface Data Link (DL) Layer Specification | G2 | | | | | | | Y | Y | | yes |

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| 44.008 | Mobile radio interface layer 3 specification | N1 | | | | | | | w | | | |
| 44.012 | Short Message Service Cell Broadcast (SMSCB) Support on the Mobile Radio Interface | G2 | | | | | | | Y | Y | | yes |
| 44.013 | Performance Requirements on Mobile Radio Interface | N1 | | | | | | | Y | Y | | yes |
| 44.014 | Individual equipment type requirements and interworking; Special conformance testing functions | G2 | | | | | | | Y | Y | | yes |
| 44.018 | Mobile radio interface layer 3 specification; Radio Resource Control Protocol | G2 | | | | | | | Y | Y | | yes |
| 44.021 | Rate Adaption on the Mobile Station - Base Station System (MS-BSS) Interface | N3 | | | | | | | Y | Y | | yes |
| 44.031 | Location Services (LCS); Mobile Station (MS) - Serving Mobile Location Centre (SMLC) Radio Resource LCS Protocol (RRLP) | G2 | | | | | | | Y | Y | | yes |
| 44.035 | Location Services (LCS); Broadcast network assistance for Enhanced Observed Time Difference (E-OTD) and Global Positioning System (GPS) positioning methods | G2 | | | | | | | Y | Y | | yes |
| 44.056 | GSM Cordless Telephony System (CTS), (Phase 1) CTS Radio Interface Layer 3 Specification | N1 | | | | | | | Y | Y | | yes |
| 44.057 | GSM Cordless Telephony System (CTS), (Phase 1) CTS CTS supervising system Layer 3 Specification | N1 | | | | | | | Y | Y | | yes |
| 44.060 | General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/ Medium Access Control (RLC/MAC) protocol | G2 | | | | | | | Y | Y | | yes |
| 44.063 | Packet Data on Signalling channels Service (PDS) Service Description, Stage 3 | N1 | | | | | | | w | | | |
| 44.064 | Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) Layer Specification | N1 | | | | | | | Y | Y | | yes |
| 44.065 | Mobile Station (MS) - Serving GPRS Support Node (SGSN); Subnetwork Dependent Convergence Protocol (SNDCP) | N1 | | | | | | | Y | Y | | yes |
| 44.068 | Group Call Control (GCC) Protocol | N1 | | | | | | | Y | Y | | yes |
| 44.069 | Broadcast Call Control (BCC) protocol | N1 | | | | | | | Y | Y | | yes |
| 44.071 | Location Services (LCS); Mobile radio interface layer 3 LCS specification | G2 | | | | | | | Y | Y | | yes |
| 44.118 | Mobile radio interface layer 3 specification, Radio Resource Control (RRC) protocol lu mode | G2 | | | | | | | | Y | | yes |

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| 44.160 | General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/Medium Access Control (RLC/MAC) protocol for lu mode | G2 | | | | | | | | Y | | yes |
| 44.901 | External network assisted cell change (NACC) | G2 | | | | | | | | Y | | yes |
| 45.001 | Physical Layer on the Radio Path (General Description) | G1 | | | | | | | Y | Y | | yes |
| 45.002 | Multiplexing and Multiple Access on the Radio Path | G1 | | | | | | | Y | Y | | yes |
| 45.003 | Channel coding | G1 | | | | | | | Y | Y | | yes |
| 45.004 | Modulation | G1 | | | | | | | Y | Y | | yes |
| 45.005 | Radio transmission and reception | G1 | | | | | | | Y | Y | | yes |
| 45.008 | Radio subsystem link control | G1 | | | | | | | Y | Y | | yes |
| 45.009 | Link adaptation | G1 | | | | | | | Y | Y | | yes |
| 45.010 | Radio subsystem synchronization | G1 | | | | | | | Y | Y | | yes |
| 45.022 | Radio link management in hierarchical networks | G1 | | | | | | | Y | Y | | yes |
| 45.050 | Background for RF Requirements | G1 | | | | | | | Y | Y | | yes |
| 45.056 | CTS-FP Radio Sub-system | G1 | | | | | | | Y | Y | | yes |
| 45.202 | reserved for radio spec "Flexible layer 1" based on 45.902 | G1 | | | | | | | | | w | |
| 45.811 | Uplink - Time Difference Of Arrival (U-TDOA) in GSM and GPRS | G1 | | | | | | | | | Y | yes |
| 45.902 | Flexible layer 1 | G1 | | | | | | | | | Y | yes |
| 46.001 | Full Rate Speech Processing Functions | S4 | | | | | | | Y | Y | | yes |
| 46.002 | Half Rate Speech Processing Functions | S4 | | | | | | | Y | Y | | yes |
| 46.006 | Half-rate speech: ANS-C code for GSM half-rate speech codec | S4 | | | | | | | Y | Y | | yes |
| 46.007 | Half Rate Speech: Test Sequence for GSM Half Rate Speech Codec | S4 | | | | | | | Y | Y | | yes |
| 46.008 | Half Rate Speech; Performance Characterization of the GSM Half Rate speech codec | S4 | | | | | | | Y | Y | | yes |
| 46.010 | Full-rate speech transcoding | S4 | | | | | | | Y | Y | | yes |
| 46.011 | Substitution and Muting of Lost Frames for Full Rate Speech Channels | S4 | | | | | | | Y | Y | | yes |
| 46.012 | Comfort Noise Aspects for Full Rate Speech Traffic Channels | S4 | | | | | | | Y | Y | | yes |
| 46.020 | Half Rate Speech Transcoding | S4 | | | | | | | Y | Y | | yes |
| 46.021 | Half rate speech; Substitution and muting of lost frames for half rate speech traffic channels | S4 | | | | | | | Y | Y | | yes |
| 46.022 | Comfort Noise Aspects for Half Rate Speech Traffic Channels | S4 | | | | | | | Y | Y | | yes |
| 46.031 | Discontinuous Transmission (DTX) for Full Rate Speech Traffic Channels | S4 | | | | | | | Y | Y | | yes |
| 46.032 | Voice Activity Detection (VAD) | S4 | | | | | | | Y | Y | | yes |

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| 46.041 | Discontinuous Transmission (DTX) for Half Rate Speech Traffic Channels | S4 | | | | | | | Y | Y | | yes |
| 46.042 | Voice Activity Detection (VAD) for Half Rate Speech Traffic Channels | S4 | | | | | | | Y | Y | | yes |
| 46.051 | GSM Enhanced full rate speech processing functions: General description | S4 | | | | | | | Y | Y | | yes |
| 46.053 | ANSI-C code for the GSM Enhanced full rate speech codec | S4 | | | | | | | Y | Y | | yes |
| 46.054 | Test sequences for the GSM Enhanced Full Rate (EFR) | S4 | | | | | | | Y | Y | | yes |
| 46.055 | Performance characterisation of the GSM EFR Speech Codec | S4 | | | | | | | Y | Y | | yes |
| 46.060 | Enhanced full rate speech transcoding | S4 | | | | | | | Y | Y | | yes |
| 46.061 | Substitution and muting of lost frames for enhanced full rate speech traffic channels | S4 | | | | | | | Y | Y | | yes |
| 46.062 | Comfort noise aspects for Enhanced Full Rate (EFR) speech traffic channels | S4 | | | | | | | Y | Y | | yes |
| 46.076 | Adaptive Multi-Rate (AMR) speech codec; Study phase report | S4 | | | | | | | Y | | | yes |
| 46.081 | Discontinuous Transmission (DTX) for enhanced full rate speech traffic channels | S4 | | | | | | | Y | Y | | yes |
| 46.082 | Voice Activity Detection (VAD) for enhanced full rate speech traffic channels | S4 | | | | | | | Y | Y | | yes |
| 46.085 | Subjective tests on the interoperability of the HR/FR/EFR speech codecs; single, tandem and tandem free operation | S4 | | | | | | | Y | Y | | yes |
| 48.001 | General Aspects on the BSS-MSC Interface | G2 | | | | | | | Y | Y | | yes |
| 48.002 | Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface - Interface Principles | G2 | | | | | | | Y | Y | | yes |
| 48.004 | Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface Layer 1 Specification | G2 | | | | | | | Y | Y | | yes |
| 48.006 | Signalling Transport Mechanism Specification for the Base Station System - Mobile Services Switching Centre (BSS-MSC) Interface | G2 | | | | | | | Y | Y | | yes |
| 48.008 | Mobile Switching Centre - Base Station system (MSC-BSS) Interface Layer 3 Specification | G2 | | | | | | | Y | Y | | yes |
| 48.014 | General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) interface; Gb Interface Layer 1 | G2 | | | | | | | Y | Y | | yes |

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| 48.016 | General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN) Interface; Network Service | G2 | | | | | | | Y | Y | | yes |
| 48.018 | General Packet Radio Service (GPRS); Base Station System (BSS) - Serving GPRS Support Node (SGSN); BSS GPRS Protocol | G2 | | | | | | | Y | Y | | yes |
| 48.020 | Rate Adaptation on the Base Station System - Mobile Service Switching Centre (BSS-MSC) Interface | N3 | | | | | | | Y | Y | | yes |
| 48.031 | Location Services LCS: Serving Mobile Location Centre - Serving Mobile Location Centre (SMLC - SMLC); SMLCPP specification | G2 | | | | | | | Y | Y | | yes |
| 48.051 | Base Station Controller - Base Transceiver Station (BSC-BTS) Interface General Aspects | G2 | | | | | | | Y | Y | | yes |
| 48.052 | Base Station Controller - Base Transceiver Station (BSC-BTS) Interface - Interface Principles | G2 | | | | | | | Y | Y | | yes |
| 48.054 | Base Station Controller - Base Transceiver Station (BSC - BTS) interface; Layer 1 structure of physical circuits | G2 | | | | | | | Y | Y | | yes |
| 48.056 | Base Station Controller - Base Transceiver Station (BSC - BTS) interface; Layer 2 specification | G2 | | | | | | | Y | Y | | yes |
| 48.058 | Base Station Controller - Base Transceiver Station (BSC - BTS) Interface Layer 3 Specification | G2 | | | | | | | Y | Y | | yes |
| 48.060 | In-band control of remote transcoders and rate adaptors for full rate traffic channels | G1 | | | | | | | Y | Y | | yes |
| 48.061 | In-band control of remote transcoders and rate adaptors for half rate traffic channels | G1 | | | | | | | Y | Y | | yes |
| 48.062 | Inband Tandem Free Operation (TFO) of Speech Codecs; Service Description; Stage 3 | S4 | | | | | | | w | | | |
| 48.071 | Location Services (LCS); Serving Mobile Location Centre - Base Station System (SMLC-BSS) interface; Layer 3 specification | G2 | | | | | | | Y | Y | | yes |
| 49.001 | General network interworking scenarios | N4 | | | | | | | Y | Y | | yes |
| 49.008 | Application of the Base Station System Application Part (BSSAP) on the E-Interface | N1 | | | | | | | Y | Y | | yes |
| 49.031 | Location Services (LCS); Base Station System Application Part LCS Extension (BSSAP-LE) | G2 | | | | | | | Y | Y | | yes |
| 49.994 | Recommended infrastructure measures to overcome specific Mobile Station (MS) faults | N1 | | | | | | | w | w | w | |

| Number | Title | WG | Ph1 | Ph2 | R96 | R97 | R98 | R99 | Rel-4 | Rel-5 | Rel-6 | active |
|----------|--|----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 50.043 | Support of Localised Service Area (SoLSA); Work Item Status | S1 | | | | | | | w | | | yes |
| 50.056 | Project scheduling and open issues: GSM Cordless Telephony System CTS, Phase 1 | S2 | | | | | | | w | | | |
| 50.059 | Enhanced Data rates for GSM Evolution (EDGE); Project scheduling and open issues for EDGE | G1 | | | | | | | Y | | | yes |
| 50.089 | GSM to other Systems Handover and Cell Selection/Reselection; Project scheduling and open issues; | GP | | | | | | | w | | | |
| 50.099 | GERAN project plan and open issues | GP | | | | | | | w | Y | | yes |
| 51.010-1 | Mobile Station (MS) conformance specification; Part 1: Conformance specification | G5 | | | | | | | Y | Y | | yes |
| 51.010-2 | Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification | G5 | | | | | | | Y | Y | | yes |
| 51.010-3 | Mobile Station (MS) conformance specification; Part 3: Layer3 (L3) Abstract Test Suite (ATS) | G5 | | | | | | | Y | | | yes |
| 51.010-4 | Mobile Station (MS) conformance specification; Part 4: SIM Application Toolkit conformance specification | G5 | | | | | | | w | | | |
| 51.011 | Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface | T3 | | | | | | | Y | w | | yes |
| 51.013 | Test specification for SIM API for Java card | T3 | | | | | | | Y | Y | | yes |
| 51.014 | Specification of Subscriber Identity Module - Mobile Equipment (SIM - ME) Interface for SIM Application Toolkit | T3 | | | | | | | w | | | |
| 51.021 | GSM radio aspects base station system equipment specification | G3 | | | | | | | Y | Y | | yes |
| 51.026 | GSM Repeater Equipment Specification | G3 | | | | | | | Y | Y | | yes |
| 52.008 | Telecommunication management; GSM subscriber and equipment trace | S5 | | | | | | | | | Y | yes |
| 52.021 | Network Management (NM) Procedures and Messages on the A-bis Interface | G3 | | | | | | | Y | Y | | yes |
| 52.071 | Location Services (LCS); Location services management | S5 | | | | | | | w | | | |
| 52.402 | Telecommunication management; Performance Management (PM); Performance measurements - GSM | S5 | | | | | | | Y | Y | | yes |

| Number | Title | WG | Ph1 | Ph2 | R96 | R97 | R98 | R99 | Rel-4 | Rel-5 | Rel-6 | active |
|--------|--|----|-----|-----|-----|-----|-----|-----|-------|-------|-------|--------|
| 55.205 | Specification of the GSM-MILENAGE algorithms: An example algorithm set for the GSM Authentication and Key Generation Functions A3 and A8 | S3 | | | | | | | | | Y | yes |
| 55.216 | Specification of the A5/3 encryption algorithms for GSM and EDGE, and the GEA3 encryption algorithm for GPRS; Document 1: A5/3 and GEA3 specification | S3 | | | | | | | | | Y | yes |
| 55.217 | Specification of the A5/3 encryption algorithms for GSM and EDGE, and the GEA3 encryption algorithm for GPRS; Document 2: Implementors' test data | S3 | | | | | | | | | Y | yes |
| 55.218 | Specification of the A5/3 encryption algorithms for GSM and EDGE, and the GEA3 encryption algorithm for GPRS; Document 3: Design and conformance test data | S3 | | | | | | | | | Y | yes |
| 55.919 | Specification of the A5/3 encryption algorithms for GSM and EDGE, and the GEA3 encryption algorithm for GPRS; Document 4: Design and evaluation report | S3 | | | | | | | | | Y | yes |

generated by query: jmm_release -matrix06-natural-order-without-genealogy

Table 2: Specs genealogy

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

| grandfather | father | son |
|-------------|--------|--------|
| x | 00.01U | -- |
| x | 00.02 | -- |
| x | 00.02U | -- |
| x | 01.00 | 21.100 |
| x | 01.00 | 21.801 |
| x | 01.01 | 41.001 |
| x | 01.02 | -- |
| x | 01.03U | -- |
| x | 01.04 | 21.905 |
| x | 01.04U | -- |
| x | 01.05 | -- |
| x | 01.05U | -- |
| x | 01.06 | -- |
| x | 01.07 | -- |
| x | 01.31 | 41.031 |
| 10.20 | 01.33 | 21.133 |
| 10.20 | 01.33 | 41.033 |
| x | 01.48 | -- |
| x | 01.50 | -- |
| x | 01.51 | -- |
| x | 01.56 | -- |
| x | 01.60 | -- |
| x | 01.61 | 41.061 |
| x | 01.78 | -- |
| x | 02.01 | 22.001 |
| x | 02.01U | -- |
| x | 02.02 | 22.002 |
| x | 02.03 | 22.003 |
| x | 02.04 | 22.004 |
| x | 02.05 | -- |
| x | 02.06 | -- |
| x | 02.07 | 22.001 |
| x | 02.07 | 22.101 |
| x | 02.07 | 22.907 |
| x | 02.08 | 22.25U |
| x | 02.09 | 42.009 |
| x | 02.10 | -- |
| x | 02.11 | 22.011 |
| x | 02.12 | -- |
| x | 02.13 | -- |
| x | 02.14 | -- |
| x | 02.15 | -- |
| x | 02.16 | 22.016 |
| x | 02.17 | 42.017 |
| x | 02.18 | -- |
| x | 02.19 | 42.019 |
| x | 02.20 | -- |
| x | 02.21 | 22.121 |
| x | 02.22 | 22.022 |
| x | 02.24 | 22.024 |
| x | 02.24 | 22.24U |
| x | 02.25 | -- |
| x | 02.26 | -- |
| x | 02.27 | -- |
| x | 02.28 | -- |
| x | 02.29 | 22.129 |
| x | 02.30 | 22.030 |
| x | 02.31 | 42.031 |

| grandfather | father | son |
|-------------|--------|--------|
| x | 02.32 | 22.032 |
| x | 02.32 | 42.032 |
| x | 02.33 | 42.033 |
| x | 02.34 | 22.034 |
| x | 02.35 | -- |
| x | 02.36 | -- |
| x | 02.37 | -- |
| x | 02.38 | 22.038 |
| x | 02.40 | -- |
| x | 02.41 | 22.041 |
| x | 02.42 | 22.042 |
| 22.043 | 02.43 | 22.043 |
| 22.043 | 02.43 | 42.043 |
| x | 02.43 | 22.043 |
| x | 02.43 | 42.043 |
| x | 02.48 | 42.048 |
| x | 02.53 | 22.053 |
| x | 02.53 | 42.053 |
| x | 02.56 | 42.056 |
| x | 02.57 | 22.057 |
| x | 02.60 | 22.060 |
| x | 02.63 | -- |
| x | 02.66 | 22.066 |
| x | 02.67 | 22.067 |
| x | 02.68 | 42.068 |
| x | 02.69 | 42.069 |
| x | 02.71 | 22.071 |
| x | 02.72 | 22.072 |
| x | 02.73 | -- |
| x | 02.76 | 22.076 |
| x | 02.77 | -- |
| x | 02.78 | 22.078 |
| x | 02.79 | 22.079 |
| x | 02.81 | 22.081 |
| x | 02.82 | 22.082 |
| x | 02.83 | 22.083 |
| x | 02.84 | 22.084 |
| x | 02.85 | 22.085 |
| x | 02.86 | 22.086 |
| x | 02.87 | 22.087 |
| x | 02.88 | 22.088 |
| x | 02.90 | 22.090 |
| x | 02.91 | 22.091 |
| x | 02.92 | -- |
| x | 02.93 | 22.093 |
| x | 02.94 | 22.094 |
| x | 02.95 | -- |
| x | 02.96 | 22.096 |
| x | 02.97 | 22.097 |
| x | 02.98 | -- |
| x | 02.99 | -- |
| x | 03.01 | 23.101 |
| x | 03.02 | 23.002 |
| x | 03.03 | 23.003 |
| x | 03.04 | -- |
| x | 03.05 | 43.005 |
| x | 03.07 | 23.007 |
| x | 03.08 | 23.008 |
| x | 03.09 | 23.009 |
| x | 03.10 | 23.010 |
| x | 03.10 | 43.010 |
| x | 03.11 | 23.011 |
| x | 03.12 | 23.012 |

| grandfather | father | son |
|-------------|--------|--------|
| x | 03.13 | 43.013 |
| x | 03.14 | 23.014 |
| x | 03.15 | 23.015 |
| x | 03.16 | 23.016 |
| x | 03.17 | |
| x | 03.18 | 23.018 |
| x | 03.19 | 43.019 |
| x | 03.20 | 43.020 |
| x | 03.22 | 23.022 |
| x | 03.22 | 43.022 |
| x | 03.26 | 43.026 |
| x | 03.30 | 43.030 |
| x | 03.31 | 43.031 |
| x | 03.32 | 23.032 |
| x | 03.33 | 43.033 |
| x | 03.34 | 23.034 |
| x | 03.35 | 23.035 |
| x | 03.35 | 43.035 |
| x | 03.36 | -- |
| x | 03.38 | 23.038 |
| x | 03.39 | 23.039 |
| x | 03.40 | 23.040 |
| x | 03.40 | 23.140 |
| x | 03.41 | 23.041 |
| x | 03.42 | 23.042 |
| x | 03.43 | 23.043 |
| x | 03.44 | 23.044 |
| x | 03.45 | 23.045 |
| x | 03.45 | 43.045 |
| x | 03.46 | 23.046 |
| x | 03.46 | 23.146 |
| x | 03.47 | -- |
| x | 03.48 | 43.048 |
| x | 03.49 | -- |
| x | 03.50 | 43.050 |
| x | 03.52 | 43.052 |
| x | 03.53 | 23.053 |
| x | 03.54 | 23.054 |
| x | 03.55 | 43.055 |
| x | 03.56 | -- |
| x | 03.57 | 23.057 |
| x | 03.58 | 43.058 |
| x | 03.59 | 43.059 |
| x | 03.60 | 23.060 |
| x | 03.61 | -- |
| x | 03.62 | -- |
| x | 03.63 | 43.063 |
| x | 03.64 | 43.064 |
| x | 03.66 | 23.066 |
| x | 03.67 | 23.067 |
| x | 03.68 | 43.068 |
| x | 03.70 | 23.070 |
| x | 03.71 | 23.071 |
| x | 03.71 | 23.171 |
| x | 03.71 | 43.071 |
| x | 03.72 | 23.072 |
| 23.073 | 03.73 | 23.073 |
| x | 03.73 | 23.073 |
| x | 03.78 | 23.078 |
| x | 03.79 | 23.079 |
| x | 03.81 | 23.081 |
| x | 03.82 | 23.082 |
| x | 03.83 | 23.083 |

| grandfather | father | son |
|-------------|--------|--------|
| x | 03.84 | 23.084 |
| x | 03.85 | 23.085 |
| x | 03.86 | 23.086 |
| x | 03.87 | 23.087 |
| x | 03.88 | 23.088 |
| x | 03.90 | 23.090 |
| x | 03.91 | 23.091 |
| x | 03.93 | 23.093 |
| x | 03.94 | 23.094 |
| x | 03.95 | -- |
| x | 03.96 | 23.096 |
| x | 03.97 | 23.097 |
| x | 03.98 | -- |
| x | 03.99 | -- |
| x | 04.01 | 44.001 |
| x | 04.02 | 24.002 |
| x | 04.03 | 44.003 |
| x | 04.04 | 24.004 |
| x | 04.04 | 44.004 |
| x | 04.05 | 44.005 |
| x | 04.06 | 44.006 |
| x | 04.07 | 24.007 |
| x | 04.08 | 24.008 |
| x | 04.08 | 44.008 |
| x | 04.10 | 24.010 |
| x | 04.11 | 24.011 |
| x | 04.12 | 24.012 |
| x | 04.12 | 44.012 |
| x | 04.13 | 44.013 |
| x | 04.14 | 44.014 |
| x | 04.18 | 44.018 |
| x | 04.21 | 44.021 |
| x | 04.22 | 24.022 |
| x | 04.30 | 24.030 |
| x | 04.31 | 44.031 |
| x | 04.33 | -- |
| x | 04.35 | 44.035 |
| x | 04.36 | -- |
| x | 04.53 | -- |
| x | 04.56 | 44.056 |
| x | 04.57 | 44.057 |
| x | 04.60 | 44.060 |
| x | 04.61 | -- |
| x | 04.62 | -- |
| x | 04.63 | 44.063 |
| x | 04.64 | 44.064 |
| x | 04.65 | 24.065 |
| x | 04.65 | 44.065 |
| x | 04.67 | 24.067 |
| x | 04.68 | 24.068 |
| x | 04.68 | 44.068 |
| x | 04.69 | 24.069 |
| x | 04.69 | 44.069 |
| x | 04.70 | -- |
| x | 04.71 | 44.071 |
| x | 04.72 | 24.072 |
| x | 04.73 | -- |
| x | 04.78 | -- |
| x | 04.79 | -- |
| x | 04.80 | 24.080 |
| x | 04.81 | 24.081 |
| x | 04.82 | 24.082 |
| x | 04.83 | 24.083 |

| grandfather | father | son |
|-------------|--------|--------|
| x | 04.84 | -- |
| x | 04.84 | 24.084 |
| x | 04.85 | 24.085 |
| x | 04.86 | 24.086 |
| x | 04.87 | 24.087 |
| x | 04.88 | 24.088 |
| x | 04.90 | 24.090 |
| x | 04.91 | 24.091 |
| x | 04.93 | 24.093 |
| x | 04.94 | |
| x | 04.96 | 24.096 |
| x | 04.98 | -- |
| x | 04.99 | -- |
| x | 05.00 | -- |
| x | 05.01 | 45.001 |
| x | 05.02 | 45.002 |
| x | 05.03 | 45.003 |
| x | 05.04 | 45.004 |
| x | 05.05 | 45.005 |
| x | 05.08 | 45.008 |
| x | 05.09 | 45.009 |
| x | 05.10 | 45.010 |
| 09.20 | 05.14 | -- |
| x | 05.18 | -- |
| x | 05.19 | -- |
| x | 05.20 | -- |
| x | 05.21 | -- |
| x | 05.22 | 45.022 |
| x | 05.30 | -- |
| x | 05.50 | 45.050 |
| x | 05.56 | 45.056 |
| x | 05.90 | -- |
| x | 06.01 | 46.001 |
| x | 06.02 | 46.002 |
| x | 06.06 | 46.006 |
| x | 06.07 | 46.007 |
| x | 06.08 | 46.008 |
| x | 06.10 | 46.010 |
| x | 06.11 | 46.011 |
| x | 06.12 | 46.012 |
| x | 06.20 | 46.020 |
| x | 06.21 | 46.021 |
| x | 06.22 | 46.022 |
| x | 06.31 | 46.031 |
| x | 06.32 | 46.032 |
| x | 06.41 | 46.041 |
| x | 06.42 | 46.042 |
| x | 06.51 | 46.051 |
| x | 06.53 | 46.053 |
| x | 06.54 | 46.054 |
| x | 06.55 | 46.055 |
| x | 06.60 | 46.060 |
| x | 06.61 | 46.061 |
| x | 06.62 | 46.062 |
| x | 06.71 | 26.071 |
| x | 06.73 | 26.073 |
| x | 06.74 | 26.074 |
| x | 06.75 | 26.075 |
| x | 06.76 | 46.076 |
| x | 06.77 | 26.077 |
| x | 06.78 | 26.078 |
| x | 06.81 | 46.081 |
| x | 06.82 | 46.082 |

| grandfather | father | son |
|-------------|--------|--------|
| x | 06.85 | 46.085 |
| x | 06.90 | 26.090 |
| x | 06.91 | 26.091 |
| x | 06.92 | 26.092 |
| x | 06.93 | 26.093 |
| x | 06.94 | 26.094 |
| x | 07.01 | 27.001 |
| x | 07.02 | 27.002 |
| x | 07.03 | 27.003 |
| x | 07.05 | 27.005 |
| x | 07.06 | -- |
| x | 07.07 | 27.007 |
| x | 07.08 | -- |
| x | 07.10 | 27.010 |
| x | 07.57 | -- |
| x | 07.60 | 27.060 |
| x | 08.01 | 48.001 |
| x | 08.02 | 48.002 |
| x | 08.04 | 48.004 |
| x | 08.06 | 48.006 |
| x | 08.08 | 48.008 |
| x | 08.14 | 48.014 |
| x | 08.16 | 48.016 |
| x | 08.18 | 48.018 |
| x | 08.20 | 28.020 |
| x | 08.20 | 48.020 |
| x | 08.31 | 48.031 |
| x | 08.51 | 48.051 |
| x | 08.52 | 48.052 |
| x | 08.54 | 48.054 |
| x | 08.56 | 48.056 |
| x | 08.58 | 48.058 |
| x | 08.59 | -- |
| x | 08.60 | 48.060 |
| x | 08.61 | 48.061 |
| x | 08.62 | 28.062 |
| x | 08.62 | 48.062 |
| x | 08.64 | -- |
| x | 08.71 | 48.071 |
| x | 09.01 | 49.001 |
| x | 09.02 | 29.002 |
| x | 09.03 | -- |
| x | 09.04 | 29.004 |
| x | 09.05 | 29.005 |
| x | 09.06 | 29.006 |
| x | 09.07 | 29.007 |
| x | 09.08 | 29.108 |
| x | 09.08 | 49.008 |
| x | 09.09 | -- |
| x | 09.10 | 29.010 |
| x | 09.11 | 29.011 |
| x | 09.12 | -- |
| x | 09.13 | 29.013 |
| x | 09.14 | -- |
| x | 09.16 | 29.016 |
| x | 09.18 | 29.018 |
| x | 09.20 | 05.14 |
| x | 09.31 | 49.031 |
| x | 09.60 | 29.060 |
| x | 09.61 | 29.061 |
| x | 09.78 | 29.078 |
| x | 09.90 | -- |
| x | 09.91 | -- |

| grandfather | father | son |
|-------------|---------|----------|
| x | 09.92 | -- |
| x | 09.94 | 29.994 |
| x | 09.94 | 49.994 |
| x | 09.95 | -- |
| x | 10.00 | -- |
| x | 10.01 | 30.801 |
| x | 10.02 | 30.002 |
| x | 10.14 | -- |
| x | 10.17 | -- |
| x | 10.20 | 01.33 |
| x | 10.43 | 50.043 |
| x | 10.56 | 50.056 |
| x | 10.57 | -- |
| x | 10.59 | 50.059 |
| x | 10.60 | -- |
| x | 10.66 | -- |
| x | 10.68 | -- |
| x | 10.70 | -- |
| x | 10.71 | -- |
| x | 10.76 | -- |
| x | 10.78 | -- |
| x | 10.87 | -- |
| x | 10.89 | 50.089 |
| x | 10.94 | -- |
| x | 10.99 | 50.099 |
| x | 11.01 | -- |
| x | 11.10 | 11.10-1 |
| x | 11.10 | 11.10-2 |
| 11.10 | 11.10-1 | 51.010-1 |
| 11.10 | 11.10-2 | 51.010-2 |
| x | 11.10-3 | 51.010-3 |
| x | 11.10-4 | 51.010-4 |
| x | 11.11 | 51.011 |
| x | 11.12 | -- |
| x | 11.14 | 51.014 |
| x | 11.16 | -- |
| x | 11.17 | -- |
| x | 11.18 | 31.101 |
| x | 11.19 | -- |
| x | 11.20 | -- |
| x | 11.21 | 51.021 |
| x | 11.22 | -- |
| x | 11.23 | -- |
| x | 11.24 | -- |
| x | 11.25 | -- |
| x | 11.26 | 51.026 |
| x | 11.30 | -- |
| x | 11.31 | -- |
| x | 11.32 | -- |
| x | 11.40 | -- |
| x | 11.56 | -- |
| x | 12.00 | -- |
| x | 12.01 | -- |
| x | 12.02 | -- |
| x | 12.03 | -- |
| x | 12.04 | 32.104 |
| x | 12.05 | 32.005 |
| x | 12.05 | 32.105 |
| x | 12.06 | 32.106 |
| x | 12.07 | -- |
| x | 12.08 | 32.008 |
| x | 12.10 | -- |
| x | 12.11 | 32.111 |

| grandfather | father | son |
|-------------|---------|---------|
| x | 12.13 | -- |
| x | 12.14 | -- |
| x | 12.15 | 32.015 |
| x | 12.20 | -- |
| x | 12.21 | 52.021 |
| x | 12.22 | -- |
| x | 12.30 | -- |
| x | 12.71 | 52.071 |
| x | 13.01 | 13.01-1 |
| x | 13.01 | 13.01-2 |
| 13.01 | 13.01-1 | -- |
| 13.01 | 13.01-2 | -- |
| x | 13.02 | 13.02-1 |
| x | 13.02 | 13.02-2 |
| 13.02 | 13.02-1 | -- |
| 13.02 | 13.02-2 | -- |
| x | 13.11 | -- |
| x | 13.21 | -- |
| x | 13.34 | -- |
| x | 13.55 | -- |
| x | 13.56 | -- |
| x | 13.57 | -- |
| x | 13.59 | -- |
| x | 13.60 | -- |
| x | 13.67 | -- |
| x | 13.68 | -- |
| x | 21.010 | -- |
| x | 21.01U | -- |
| x | 21.02U | -- |
| x | 21.04U | -- |
| x | 21.06U | -- |
| 01.00 | 21.100 | 21.900 |
| x | 21.101 | 21.102 |
| 21.101 | 21.102 | 21.103 |
| 21.102 | 21.103 | 21.104 |
| 21.103 | 21.104 | -- |
| x | 21.111 | -- |
| 01.33 | 21.133 | -- |
| 01.00 | 21.801 | -- |
| 21.910 | 21.810 | -- |
| x | 21.877 | -- |
| 21.100 | 21.900 | -- |
| x | 21.904 | -- |
| 01.04 | 21.905 | -- |
| 25.990 | 21.905 | -- |
| x | 21.906 | -- |
| x | 21.910 | 21.810 |
| x | 21.978 | -- |
| x | 22,934 | -- |
| 02.01 | 22.001 | -- |
| 02.07 | 22.001 | -- |
| 02.02 | 22.002 | -- |
| 02.03 | 22.003 | -- |
| 02.04 | 22.004 | -- |
| x | 22.00U | 22.100 |
| 02.11 | 22.011 | -- |
| 02.16 | 22.016 | -- |
| x | 22.01U | 22.101 |
| 02.22 | 22.022 | -- |
| 02.24 | 22.024 | -- |
| 02.30 | 22.030 | -- |
| 02.32 | 22.032 | -- |
| 42.032 | 22.032 | -- |

| grandfather | father | son |
|-------------|--------|--------|
| 02.34 | 22.034 | -- |
| 02.38 | 22.038 | -- |
| 02.41 | 22.041 | -- |
| 02.42 | 22.042 | -- |
| 02.43 | 22.043 | 02.43 |
| 42.048 | 22.048 | -- |
| 02.53 | 22.053 | -- |
| 42.053 | 22.053 | -- |
| 02.57 | 22.057 | -- |
| x | 22.05U | 22.105 |
| 02.60 | 22.060 | -- |
| 02.66 | 22.066 | -- |
| 02.67 | 22.067 | -- |
| 02.71 | 22.071 | -- |
| 02.72 | 22.072 | -- |
| 02.76 | 22.076 | -- |
| 02.78 | 22.078 | -- |
| 02.79 | 22.079 | -- |
| x | 22.07U | -- |
| 02.81 | 22.081 | -- |
| 02.82 | 22.082 | -- |
| 02.83 | 22.083 | -- |
| 02.84 | 22.084 | -- |
| 02.85 | 22.085 | -- |
| 02.86 | 22.086 | -- |
| 02.87 | 22.087 | -- |
| 02.88 | 22.088 | -- |
| 02.90 | 22.090 | -- |
| 02.91 | 22.091 | -- |
| 02.93 | 22.093 | -- |
| 02.94 | 22.094 | -- |
| 02.96 | 22.096 | -- |
| 02.97 | 22.097 | -- |
| 22.00U | 22.100 | -- |
| 02.07 | 22.101 | -- |
| 22.01U | 22.101 | -- |
| 22.05U | 22.105 | -- |
| x | 22.112 | -- |
| 22.24U | 22.115 | -- |
| 02.21 | 22.121 | -- |
| x | 22.127 | -- |
| 02.29 | 22.129 | -- |
| x | 22.135 | -- |
| x | 22.140 | -- |
| x | 22.141 | -- |
| 22.946 | 22.146 | -- |
| x | 22.174 | -- |
| 22.977 | 22.177 | -- |
| x | 22.21U | 22.70U |
| x | 22.226 | -- |
| x | 22.227 | -- |
| x | 22.228 | -- |
| x | 22.233 | -- |
| x | 22.240 | -- |
| x | 22.242 | -- |
| x | 22.243 | -- |
| 02.24 | 22.24U | 22.115 |
| 02.24 | 22.24U | 22.924 |
| x | 22.250 | -- |
| 02.08 | 22.25U | 22.925 |
| x | 22.29U | -- |
| x | 22.30U | -- |
| 22.940 | 22.340 | -- |

| grandfather | father | son |
|-------------|--------|--------|
| x | 22.35U | -- |
| x | 22.40U | -- |
| x | 22.45U | -- |
| x | 22.50U | -- |
| x | 22.55U | -- |
| x | 22.60U | -- |
| 22.21U | 22.70U | 22.970 |
| x | 22.71U | 22.971 |
| x | 22.72U | -- |
| x | 22.75U | 22.975 |
| x | 22.800 | -- |
| x | 22.80U | -- |
| x | 22.857 | -- |
| 02.07 | 22.907 | -- |
| 22.24U | 22.924 | -- |
| 22.25U | 22.925 | -- |
| x | 22.928 | -- |
| x | 22.940 | 22.340 |
| x | 22.941 | -- |
| x | 22.944 | -- |
| x | 22.945 | -- |
| x | 22.946 | 22.146 |
| x | 22.950 | -- |
| x | 22.951 | -- |
| x | 22.960 | -- |
| 22.70U | 22.970 | -- |
| 22.71U | 22.971 | -- |
| x | 22.972 | -- |
| 22.75U | 22.975 | -- |
| x | 22.976 | -- |
| x | 22.977 | 22.177 |
| 03.02 | 23.002 | -- |
| 03.03 | 23.003 | -- |
| 03.07 | 23.007 | -- |
| 03.08 | 23.008 | -- |
| 03.09 | 23.009 | -- |
| 03.10 | 23.010 | -- |
| 03.11 | 23.011 | -- |
| 03.12 | 23.012 | -- |
| 03.14 | 23.014 | -- |
| 03.15 | 23.015 | -- |
| 03.16 | 23.016 | -- |
| 03.18 | 23.018 | -- |
| x | 23.01U | 23.05U |
| 03.22 | 23.022 | 23.122 |
| 03.32 | 23.032 | -- |
| 03.34 | 23.034 | -- |
| 03.35 | 23.035 | -- |
| 43.035 | 23.035 | -- |
| 03.38 | 23.038 | -- |
| 03.39 | 23.039 | -- |
| 03.40 | 23.040 | -- |
| 03.41 | 23.041 | -- |
| 03.42 | 23.042 | -- |
| 03.43 | 23.043 | -- |
| 03.44 | 23.044 | -- |
| 03.45 | 23.045 | -- |
| 03.46 | 23.046 | 43.046 |
| 43.048 | 23.048 | -- |
| 03.53 | 23.053 | -- |
| 03.54 | 23.054 | -- |
| 03.57 | 23.057 | -- |
| 23.01U | 23.05U | -- |

| grandfather | father | son |
|-------------|--------|--------|
| 03.60 | 23.060 | -- |
| 03.66 | 23.066 | -- |
| 03.67 | 23.067 | -- |
| 03.69 | 23.069 | -- |
| 03.70 | 23.070 | -- |
| 03.71 | 23.071 | 25.305 |
| 03.72 | 23.072 | -- |
| 03.73 | 23.073 | 03.73 |
| 03.73 | 23.073 | 43.073 |
| 03.78 | 23.078 | 23.178 |
| 03.79 | 23.079 | -- |
| 03.81 | 23.081 | -- |
| 03.82 | 23.082 | -- |
| 03.83 | 23.083 | -- |
| 03.84 | 23.084 | -- |
| 03.85 | 23.085 | -- |
| 03.86 | 23.086 | -- |
| 03.87 | 23.087 | -- |
| 03.88 | 23.088 | -- |
| 03.90 | 23.090 | -- |
| 03.91 | 23.091 | -- |
| 03.93 | 23.093 | -- |
| 03.94 | 23.094 | -- |
| 03.96 | 23.096 | -- |
| 03.97 | 23.097 | -- |
| 03.01 | 23.101 | -- |
| x | 23.107 | -- |
| x | 23.108 | -- |
| x | 23.10U | 23.110 |
| 23.10U | 23.110 | -- |
| x | 23.116 | -- |
| x | 23.119 | -- |
| x | 23.121 | 23.221 |
| 23.022 | 23.122 | -- |
| x | 23.122 | -- |
| x | 23.127 | -- |
| x | 23.135 | -- |
| 03.40 | 23.140 | -- |
| 23.841 | 23.141 | -- |
| 03.46 | 23.146 | -- |
| x | 23.153 | -- |
| 03.71 | 23.171 | 23.271 |
| x | 23.172 | -- |
| x | 23.174 | -- |
| 23.078 | 23.178 | 23.278 |
| x | 23.205 | -- |
| x | 23.207 | -- |
| x | 23.20U | -- |
| x | 23.218 | -- |
| 23.121 | 23.221 | -- |
| x | 23.226 | -- |
| x | 23.227 | -- |
| 23.922 | 23.228 | -- |
| 23.934 | 23.234 | -- |
| x | 23.236 | -- |
| x | 23.240 | -- |
| x | 23.241 | -- |
| 23.846 | 23.246 | -- |
| 23.171 | 23.271 | -- |
| 23.871 | 23.271 | -- |
| 43.071 | 23.271 | -- |
| 23.178 | 23.278 | -- |
| x | 23.340 | -- |

| grandfather | father | son |
|-------------|--------|--------|
| x | 23.40U | -- |
| x | 23.50U | -- |
| x | 23.60U | -- |
| x | 23.70U | -- |
| x | 23.80U | -- |
| x | 23.814 | -- |
| 23.915 | 23.815 | -- |
| x | 23.821 | -- |
| x | 23.841 | 23.141 |
| x | 23.846 | 23.246 |
| x | 23.871 | 23.271 |
| x | 23.873 | -- |
| x | 23.874 | -- |
| 23.974 | 23.875 | -- |
| x | 23.907 | -- |
| x | 23.908 | -- |
| x | 23.909 | -- |
| x | 23.90U | -- |
| x | 23.910 | -- |
| x | 23.911 | -- |
| x | 23.912 | -- |
| x | 23.913 | -- |
| x | 23.915 | 23.815 |
| x | 23.917 | -- |
| x | 23.920 | -- |
| x | 23.922 | 23.228 |
| x | 23.923 | -- |
| x | 23.925 | -- |
| x | 23.927 | -- |
| x | 23.930 | -- |
| x | 23.934 | 23.234 |
| x | 23.955 | -- |
| x | 23.95U | -- |
| x | 23.960 | -- |
| x | 23.972 | -- |
| x | 23.974 | 23.875 |
| 04.02 | 24.002 | -- |
| 04.04 | 24.004 | -- |
| 04.07 | 24.007 | -- |
| 04.08 | 24.008 | -- |
| 04.10 | 24.010 | -- |
| 04.11 | 24.011 | -- |
| 04.12 | 24.012 | -- |
| 04.22 | 24.022 | -- |
| 04.30 | 24.030 | -- |
| x | 24.05U | -- |
| 04.65 | 24.065 | -- |
| 04.67 | 24.067 | -- |
| 04.68 | 24.068 | -- |
| 04.69 | 24.069 | -- |
| 04.72 | 24.072 | -- |
| 04.80 | 24.080 | -- |
| 04.81 | 24.081 | -- |
| 04.82 | 24.082 | -- |
| 04.83 | 24.083 | -- |
| 04.84 | 24.084 | -- |
| 04.85 | 24.085 | -- |
| 04.86 | 24.086 | -- |
| 04.87 | 24.087 | -- |
| 04.88 | 24.088 | -- |
| 04.90 | 24.090 | -- |
| 04.91 | 24.091 | -- |
| 04.93 | 24.093 | -- |

| grandfather | father | son |
|-------------|--------|-----|
| 04.96 | 24.096 | -- |
| x | 24.10U | -- |
| x | 24.135 | -- |
| x | 24.228 | -- |
| x | 24.229 | -- |
| x | 24.241 | -- |
| x | 24.841 | x |
| x | 24.946 | -- |
| x | 25.053 | -- |
| x | 25.05U | -- |
| x | 25.101 | -- |
| x | 25.102 | -- |
| x | 25.104 | -- |
| x | 25.105 | -- |
| x | 25.106 | -- |
| x | 25.107 | -- |
| x | 25.10U | -- |
| x | 25.113 | -- |
| x | 25.123 | -- |
| x | 25.133 | -- |
| x | 25.141 | -- |
| x | 25.142 | -- |
| x | 25.143 | -- |
| x | 25.15U | -- |
| x | 25.201 | -- |
| x | 25.20U | -- |
| x | 25.211 | -- |
| x | 25.212 | -- |
| x | 25.213 | -- |
| x | 25.214 | -- |
| x | 25.215 | -- |
| x | 25.221 | -- |
| x | 25.222 | -- |
| x | 25.223 | -- |
| x | 25.224 | -- |
| x | 25.225 | -- |
| x | 25.301 | -- |
| x | 25.302 | -- |
| x | 25.303 | -- |
| x | 25.304 | -- |
| 23.071 | 25.305 | -- |
| 25.923 | 25.305 | -- |
| 25.926 | 25.306 | -- |
| x | 25.307 | -- |
| 25.855 | 25.308 | -- |
| x | 25.321 | -- |
| x | 25.322 | -- |
| x | 25.323 | -- |
| x | 25.324 | -- |
| x | 25.331 | -- |
| x | 25.346 | -- |
| x | 25.371 | -- |
| x | 25.401 | -- |
| x | 25.402 | -- |
| x | 25.410 | -- |
| x | 25.411 | -- |
| x | 25.412 | -- |
| x | 25.413 | -- |
| x | 25.414 | -- |
| x | 25.415 | -- |
| x | 25.419 | -- |
| x | 25.420 | -- |
| x | 25.421 | -- |

| grandfather | father | son |
|-------------|--------|--------|
| x | 25.422 | -- |
| x | 25.423 | -- |
| x | 25.424 | -- |
| x | 25.425 | -- |
| x | 25.426 | -- |
| x | 25.427 | -- |
| x | 25.430 | -- |
| x | 25.431 | -- |
| x | 25.432 | -- |
| x | 25.433 | -- |
| x | 25.434 | -- |
| x | 25.435 | -- |
| x | 25.442 | -- |
| x | 25.450 | -- |
| x | 25.451 | -- |
| x | 25.452 | -- |
| x | 25.453 | -- |
| x | 25.831 | -- |
| x | 25.832 | -- |
| x | 25.833 | -- |
| x | 25.834 | -- |
| x | 25.835 | -- |
| x | 25.836 | -- |
| x | 25.837 | -- |
| x | 25.838 | -- |
| x | 25.839 | -- |
| x | 25.840 | -- |
| x | 25.841 | -- |
| x | 25.842 | -- |
| x | 25.843 | -- |
| x | 25.844 | 25.860 |
| x | 25.845 | -- |
| x | 25.846 | -- |
| x | 25.847 | -- |
| x | 25.848 | -- |
| x | 25.849 | -- |
| x | 25.850 | -- |
| x | 25.851 | -- |
| x | 25.852 | -- |
| 25.932 | 25.853 | -- |
| x | 25.854 | -- |
| 25.950 | 25.855 | 25.308 |
| x | 25.856 | -- |
| x | 25.857 | -- |
| x | 25.858 | -- |
| x | 25.859 | -- |
| 25.844 | 25.860 | -- |
| x | 25.861 | -- |
| x | 25.867 | -- |
| x | 25.868 | -- |
| x | 25.869 | -- |
| x | 25.870 | -- |
| x | 25.875 | -- |
| x | 25.876 | -- |
| x | 25.877 | -- |
| x | 25.878 | -- |
| x | 25.879 | -- |
| x | 25.880 | -- |
| x | 25.881 | -- |
| x | 25.881 | 25.891 |
| x | 25.882 | -- |
| x | 25.883 | -- |
| x | 25.884 | -- |

| grandfather | father | son |
|-------------|--------|--------|
| x | 25.885 | -- |
| x | 25.886 | -- |
| x | 25.887 | -- |
| x | 25.888 | -- |
| x | 25.889 | -- |
| x | 25.890 | -- |
| 25.881 | 25.891 | -- |
| x | 25.892 | -- |
| x | 25.893 | -- |
| x | 25.894 | -- |
| x | 25.895 | -- |
| x | 25.896 | -- |
| x | 25.897 | -- |
| x | 25.898 | -- |
| x | 25.921 | -- |
| x | 25.922 | -- |
| x | 25.923 | 25.305 |
| x | 25.924 | -- |
| x | 25.925 | -- |
| x | 25.926 | 25.306 |
| x | 25.928 | -- |
| x | 25.931 | -- |
| x | 25.932 | 25.853 |
| x | 25.933 | -- |
| x | 25.934 | -- |
| x | 25.935 | -- |
| x | 25.936 | -- |
| x | 25.937 | -- |
| x | 25.938 | -- |
| x | 25.941 | -- |
| x | 25.942 | -- |
| x | 25.943 | -- |
| x | 25.944 | -- |
| x | 25.945 | -- |
| x | 25.946 | -- |
| x | 25.950 | 25.855 |
| x | 25.951 | -- |
| x | 25.952 | -- |
| x | 25.953 | -- |
| x | 25.954 | -- |
| x | 25.956 | -- |
| x | 25.990 | 21.905 |
| x | 25.991 | -- |
| x | 25.992 | -- |
| x | 25.993 | -- |
| x | 25.994 | -- |
| x | 25.995 | -- |
| 06.71 | 26.071 | -- |
| 06.73 | 26.073 | 26.173 |
| 06.74 | 26.074 | -- |
| 06.75 | 26.075 | 26.975 |
| 06.77 | 26.077 | -- |
| 06.78 | 26.078 | -- |
| 06.90 | 26.090 | -- |
| 06.91 | 26.091 | -- |
| 06.92 | 26.092 | -- |
| 06.93 | 26.093 | -- |
| 06.94 | 26.094 | -- |
| x | 26.101 | 26.201 |
| x | 26.102 | 26.202 |
| x | 26.103 | -- |
| x | 26.104 | -- |
| x | 26.104 | 26.204 |

| grandfather | father | son |
|-------------|--------|--------|
| x | 26.110 | -- |
| x | 26.111 | -- |
| x | 26.112 | -- |
| 26.915 | 26.115 | 26.915 |
| x | 26.121 | -- |
| x | 26.122 | -- |
| x | 26.131 | -- |
| x | 26.132 | -- |
| x | 26.133 | -- |
| x | 26.134 | -- |
| x | 26.135 | -- |
| x | 26.136 | -- |
| x | 26.137 | -- |
| x | 26.138 | -- |
| x | 26.15U | -- |
| x | 26.171 | -- |
| 26.073 | 26.173 | -- |
| x | 26.174 | -- |
| x | 26.190 | -- |
| x | 26.191 | -- |
| x | 26.192 | -- |
| x | 26.193 | -- |
| x | 26.194 | -- |
| 26.101 | 26.201 | -- |
| 26.102 | 26.202 | -- |
| 26.104 | 26.204 | -- |
| x | 26.226 | -- |
| x | 26.230 | -- |
| x | 26.231 | -- |
| x | 26.233 | -- |
| x | 26.234 | -- |
| x | 26.235 | -- |
| x | 26.901 | -- |
| x | 26.911 | -- |
| x | 26.912 | -- |
| x | 26.913 | -- |
| 26.115 | 26.915 | 26.115 |
| x | 26.920 | -- |
| x | 26.937 | -- |
| 26.075 | 26.975 | -- |
| x | 26.976 | -- |
| x | 26.978 | -- |
| 07.01 | 27.001 | -- |
| 07.02 | 27.002 | -- |
| 07.03 | 27.003 | -- |
| 07.05 | 27.005 | -- |
| 07.07 | 27.007 | -- |
| x | 27.00U | -- |
| 07.10 | 27.010 | -- |
| 07.60 | 27.060 | -- |
| x | 27.103 | -- |
| x | 27.104 | 27.241 |
| x | 27.150 | -- |
| x | 27.226 | -- |
| 27.104 | 27.241 | -- |
| x | 27.901 | -- |
| x | 27.903 | -- |
| 08.20 | 28.020 | -- |
| 08.62 | 28.062 | -- |
| 09.02 | 29.002 | -- |
| 09.04 | 29.004 | -- |
| 09.05 | 29.005 | -- |
| 09.06 | 29.006 | -- |

| grandfather | father | son |
|-------------|-------------|-------------|
| 09.07 | 29.007 | -- |
| 09.10 | 29.010 | -- |
| 09.11 | 29.011 | -- |
| 09.13 | 29.013 | -- |
| 09.16 | 29.016 | -- |
| 09.18 | 29.018 | -- |
| 09.60 | 29.060 | -- |
| 09.61 | 29.061 | -- |
| 09.78 | 29.078 | -- |
| 09.08 | 29.108 | -- |
| x | 29.119 | -- |
| x | 29.120 | -- |
| x | 29.162 | -- |
| x | 29.163 | -- |
| x | 29.198 | -- |
| x | 29.198-01 | -- |
| x | 29.198-02 | -- |
| x | 29.198-03 | -- |
| x | 29.198-04 | -- |
| x | 29.198-04 | 29.198-04-1 |
| x | 29.198-04 | 29.198-04-2 |
| x | 29.198-04 | 29.198-04-3 |
| x | 29.198-04 | 29.198-04-4 |
| 29.198-04 | 29.198-04-1 | -- |
| 29.198-04 | 29.198-04-2 | -- |
| 29.198-04 | 29.198-04-3 | -- |
| 29.198-04 | 29.198-04-4 | -- |
| x | 29.198-05 | -- |
| x | 29.198-06 | -- |
| x | 29.198-07 | -- |
| x | 29.198-08 | -- |
| x | 29.198-09 | -- |
| x | 29.198-10 | -- |
| x | 29.198-11 | -- |
| x | 29.198-12 | -- |
| x | 29.198-13 | -- |
| x | 29.198-14 | -- |
| x | 29.200 | -- |
| x | 29.202 | -- |
| x | 29.203 | -- |
| x | 29.205 | -- |
| x | 29.207 | -- |
| x | 29.208 | -- |
| x | 29.226 | -- |
| x | 29.228 | -- |
| x | 29.229 | -- |
| x | 29.232 | -- |
| x | 29.240 | -- |
| x | 29.278 | -- |
| x | 29.328 | -- |
| x | 29.329 | -- |
| x | 29.332 | -- |
| x | 29.333 | -- |
| x | 29.414 | -- |
| x | 29.415 | -- |
| x | 29.846 | -- |
| x | 29.903 | -- |
| x | 29.962 | -- |
| x | 29.993 | -- |
| 09.94 | 29.994 | -- |
| x | 29.998 | -- |
| x | 29.998-01 | -- |
| x | 29.998-04-1 | -- |

| grandfather | father | son |
|-------------|-------------|----------|
| x | 29.998-04-2 | -- |
| x | 29.998-04-3 | -- |
| x | 29.998-04-4 | -- |
| x | 29.998-05-1 | -- |
| x | 29.998-05-2 | -- |
| x | 29.998-05-3 | -- |
| x | 29.998-05-4 | -- |
| x | 29.998-06 | -- |
| x | 29.998-08 | -- |
| 10.02 | 30.002 | -- |
| x | 30.00U | -- |
| x | 30.01U | -- |
| x | 30.02U | -- |
| x | 30.03U | -- |
| x | 30.04U | -- |
| x | 30.05U | -- |
| x | 30.06U | -- |
| x | 30.20U | -- |
| x | 30.504 | -- |
| x | 30.531 | -- |
| 10.01 | 30.801 | -- |
| x | 30.802 | -- |
| x | 30.804 | -- |
| x | 30.806 | -- |
| x | 30.808 | -- |
| x | 30.810 | -- |
| x | 30.812 | -- |
| x | 31.048 | -- |
| 11.18 | 31.101 | -- |
| x | 31.102 | -- |
| x | 31.103 | -- |
| x | 31.110 | -- |
| x | 31.111 | -- |
| x | 31.112 | -- |
| x | 31.113 | -- |
| x | 31.114 | -- |
| x | 31.115 | -- |
| x | 31.116 | -- |
| x | 31.120 | -- |
| x | 31.121 | -- |
| x | 31.122 | -- |
| x | 31.131 | -- |
| x | 31.900 | -- |
| 12.05 | 32.005 | -- |
| 12.08 | 32.008 | 32.108 |
| 12.15 | 32.015 | -- |
| x | 32.01U | -- |
| x | 32.101 | -- |
| x | 32.102 | -- |
| 12.04 | 32.104 | 32.401 |
| 12.04 | 32.104 | 32.402 |
| 12.04 | 32.104 | 32.403 |
| 12.05 | 32.105 | -- |
| 12.06 | 32.106 | 32.106-1 |
| 12.06 | 32.106 | 32.106-2 |
| 12.06 | 32.106 | 32.106-3 |
| 12.06 | 32.106 | 32.106-4 |
| 12.06 | 32.106 | 32.106-5 |
| 12.06 | 32.106 | 32.106-6 |
| 12.06 | 32.106 | 32.106-7 |
| 12.06 | 32.106 | 32.106-8 |
| 12.06 | 32.106 | 32.301-1 |
| 12.06 | 32.106 | 32.301-2 |

| grandfather | father | son |
|-------------|----------|----------|
| 12.06 | 32.106 | 32.600 |
| 32.106 | 32.106-1 | -- |
| 32.106 | 32.106-2 | -- |
| 32.106 | 32.106-3 | -- |
| 32.106 | 32.106-4 | -- |
| 32.106 | 32.106-5 | -- |
| 32.106 | 32.106-6 | -- |
| 32.106 | 32.106-7 | -- |
| 32.106 | 32.106-8 | -- |
| 32.008 | 32.108 | 32.411 |
| 32.008 | 32.108 | 32.421 |
| 32.008 | 32.108 | 32.422 |
| 32.008 | 32.108 | 32.423 |
| 32.008 | 32.108 | 52.008 |
| 12.11 | 32.111 | 32.111-1 |
| 12.11 | 32.111 | 32.111-2 |
| 12.11 | 32.111 | 32.111-3 |
| 12.11 | 32.111 | 32.111-4 |
| 32.111 | 32.111-1 | -- |
| 32.111 | 32.111-2 | -- |
| 32.111 | 32.111-3 | -- |
| 32.111 | 32.111-4 | -- |
| x | 32.112 | 32.112-1 |
| x | 32.112 | 32.112-2 |
| 32.112 | 32.112-1 | 32.311 |
| 32.112 | 32.112-2 | 32.312 |
| x | 32.113 | -- |
| x | 32.114 | -- |
| x | 32.140 | -- |
| x | 32.141 | -- |
| x | 32.150 | -- |
| x | 32.200 | -- |
| x | 32.205 | -- |
| x | 32.215 | -- |
| x | 32.225 | -- |
| x | 32.235 | -- |
| x | 32.300 | -- |
| 32.301-1 | 32.301 | -- |
| 32.106 | 32.301-1 | 32.301 |
| 32.106 | 32.301-2 | 32.302 |
| x | 32.301-3 | 32.303 |
| x | 32.301-4 | -- |
| 32.301-2 | 32.302 | -- |
| 32.301-3 | 32.303 | -- |
| 31.301-4 | 32.304 | -- |
| 32.112-1 | 32.311 | -- |
| 32.112-2 | 32.312 | -- |
| x | 32.321 | -- |
| x | 32.322 | -- |
| x | 32.323 | -- |
| x | 32.324 | -- |
| 32.104 | 32.401 | -- |
| 32.104 | 32.402 | 52.402 |
| 32.104 | 32.403 | -- |
| 32.108 | 32.411 | -- |
| x | 32.412 | -- |
| x | 32.413 | -- |
| 32.108 | 32.421 | -- |
| 32.108 | 32.422 | -- |
| 32.108 | 32.423 | -- |
| 32.106 | 32.600 | -- |
| 32.601-1 | 32.601 | -- |
| x | 32.601-1 | 32.601 |

| grandfather | father | son |
|-------------|----------|--------|
| x | 32.601-2 | 32.602 |
| x | 32.601-3 | 32.603 |
| x | 32.601-4 | 32.604 |
| 32.601-2 | 32.602 | -- |
| x | 32.602-1 | 32.611 |
| x | 32.602-2 | 32.612 |
| x | 32.602-3 | 32.613 |
| x | 32.602-4 | 32.614 |
| x | 32.602-5 | 32.615 |
| 32.601-3 | 32.603 | -- |
| 32.601-4 | 32.604 | -- |
| 32.602-1 | 32.611 | -- |
| 32.602-2 | 32.612 | -- |
| 32.602-3 | 32.613 | -- |
| 32.602-4 | 32.614 | -- |
| 32.602-5 | 32.615 | -- |
| x | 32.620-1 | 32.621 |
| x | 32.620-2 | 32.622 |
| x | 32.620-3 | 32.623 |
| x | 32.620-4 | 32.624 |
| 32.620-1 | 32.621 | -- |
| x | 32.621-1 | 32.631 |
| x | 32.621-2 | 32.632 |
| x | 32.621-3 | 32.633 |
| x | 32.621-4 | 32.634 |
| 32.620-2 | 32.622 | -- |
| x | 32.622-1 | 32.641 |
| x | 32.622-2 | 32.642 |
| x | 32.622-3 | 32.643 |
| x | 32.622-4 | 32.644 |
| 32.620-3 | 32.623 | -- |
| x | 32.623-1 | 32.651 |
| x | 32.623-2 | 32.652 |
| x | 32.623-3 | 32.653 |
| x | 32.623-4 | 32.654 |
| 32.620-4 | 32.624 | -- |
| x | 32.625 | -- |
| 32.621-1 | 32.631 | -- |
| 32.621-2 | 32.632 | -- |
| 32.621-3 | 32.633 | -- |
| 32.621-4 | 32.634 | -- |
| x | 32.635 | -- |
| 32.622-1 | 32.641 | -- |
| 32.622-2 | 32.642 | -- |
| 32.622-3 | 32.643 | -- |
| 32.622-4 | 32.644 | -- |
| x | 32.645 | -- |
| 32.623-1 | 32.651 | -- |
| 32.623-2 | 32.652 | -- |
| 32.623-3 | 32.653 | -- |
| 32.623-4 | 32.654 | -- |
| x | 32.655 | -- |
| x | 32.661 | -- |
| x | 32.662 | -- |
| x | 32.663 | -- |
| x | 32.664 | -- |
| x | 32.671 | -- |
| x | 32.672 | -- |
| x | 32.673 | -- |
| x | 32.674 | -- |
| x | 32.681 | -- |
| x | 32.682 | -- |
| x | 32.683 | -- |

| grandfather | father | son |
|-------------|----------|--------|
| x | 32.684 | -- |
| x | 32.691 | -- |
| x | 32.692 | -- |
| x | 32.800 | -- |
| x | 32.801 | -- |
| x | 32.802 | -- |
| x | 33.102 | -- |
| x | 33.103 | -- |
| x | 33.105 | -- |
| x | 33.106 | -- |
| x | 33.107 | -- |
| x | 33.108 | -- |
| x | 33.120 | -- |
| x | 33.200 | -- |
| x | 33.201 | -- |
| x | 33.203 | -- |
| x | 33.20U | -- |
| x | 33.210 | -- |
| x | 33.21U | -- |
| x | 33.234 | -- |
| x | 33.246 | -- |
| x | 33.800 | -- |
| 33.910 | 33.810 | -- |
| x | 33.900 | -- |
| x | 33.901 | -- |
| x | 33.902 | -- |
| x | 33.903 | -- |
| x | 33.904 | 33.908 |
| 33.904 | 33.908 | -- |
| x | 33.909 | -- |
| x | 33.910 | 33.810 |
| x | 34.108 | -- |
| x | 34.109 | -- |
| x | 34.121 | -- |
| x | 34.122 | -- |
| x | 34.123-1 | -- |
| x | 34.123-2 | -- |
| x | 34.123-3 | -- |
| x | 34.124 | -- |
| x | 34.131 | -- |
| x | 34.801 | -- |
| x | 34.801 | 34.901 |
| 34.801 | 34.901 | -- |
| x | 34.907 | -- |
| x | 34.910 | -- |
| x | 34.925 | -- |
| x | 34.926 | -- |
| x | 35.201 | -- |
| x | 35.202 | -- |
| x | 35.203 | -- |
| x | 35.204 | -- |
| x | 35.205 | -- |
| x | 35.206 | -- |
| x | 35.207 | -- |
| x | 35.208 | -- |
| x | 35.209 | 35.909 |
| 35.209 | 35.909 | -- |
| 01.01 | 41.001 | 41.102 |
| 01.31 | 41.031 | -- |
| 01.33 | 41.033 | -- |
| 01.61 | 41.061 | -- |
| 41.001 | 41.102 | 41.103 |
| 41.102 | 41.103 | 41.104 |

| grandfather | father | son |
|-------------|--------|--------|
| 41.103 | 41.104 | -- |
| x | 41.811 | 45.811 |
| 02.09 | 42.009 | -- |
| 02.17 | 42.017 | -- |
| 02.19 | 42.019 | -- |
| 02.31 | 42.031 | -- |
| 02.32 | 42.032 | -- |
| 02.32 | 42.032 | 22.032 |
| 02.33 | 42.033 | -- |
| 02.43 | 42.043 | -- |
| 02.48 | 42.048 | 22.048 |
| 02.53 | 42.053 | 22.053 |
| 02.56 | 42.056 | -- |
| 02.68 | 42.068 | -- |
| 02.69 | 42.069 | -- |
| 03.05 | 43.005 | -- |
| 03.10 | 43.010 | -- |
| 03.13 | 43.013 | -- |
| 03.19 | 43.019 | -- |
| 03.20 | 43.020 | -- |
| 03.22 | 43.022 | -- |
| 03.26 | 43.026 | -- |
| 03.30 | 43.030 | -- |
| 03.31 | 43.031 | -- |
| 03.33 | 43.033 | -- |
| 03.35 | 43.035 | -- |
| 03.35 | 43.035 | 23.035 |
| 03.45 | 43.045 | -- |
| 23.046 | 43.046 | -- |
| 03.48 | 43.048 | 23.048 |
| 03.50 | 43.050 | -- |
| 03.51 | 43.051 | -- |
| 03.52 | 43.052 | -- |
| 03.55 | 43.055 | -- |
| 03.58 | 43.058 | -- |
| 03.59 | 43.059 | -- |
| 03.63 | 43.063 | -- |
| 03.64 | 43.064 | -- |
| 03.68 | 43.068 | -- |
| 03.69 | 43.069 | -- |
| 03.71 | 43.071 | 23.271 |
| 23.073 | 43.073 | |
| 43.930 | 43.130 | -- |
| x | 43.900 | -- |
| x | 43.930 | 43.130 |
| 04.01 | 44.001 | -- |
| 04.03 | 44.003 | -- |
| 04.04 | 44.004 | -- |
| 04.05 | 44.005 | -- |
| 04.06 | 44.006 | -- |
| 04.08 | 44.008 | -- |
| 04.12 | 44.012 | -- |
| 04.13 | 44.013 | -- |
| 04.14 | 44.014 | -- |
| 04.18 | 44.018 | -- |
| 04.18 | 44.018 | 44.118 |
| 04.21 | 44.021 | -- |
| 04.31 | 44.031 | -- |
| 04.35 | 44.035 | -- |
| 04.56 | 44.056 | -- |
| 04.57 | 44.057 | -- |
| 04.60 | 44.060 | 44.160 |
| 04.63 | 44.063 | -- |

| grandfather | father | son |
|-------------|--------|--------|
| 04.64 | 44.064 | -- |
| 04.65 | 44.065 | -- |
| 04.68 | 44.068 | -- |
| 04.69 | 44.069 | -- |
| 04.71 | 44.071 | -- |
| 44.018 | 44.118 | -- |
| 44.060 | 44.160 | -- |
| x | 44.901 | -- |
| 05.01 | 45.001 | -- |
| 05.02 | 45.002 | -- |
| 05.03 | 45.003 | -- |
| 05.04 | 45.004 | -- |
| 05.05 | 45.005 | -- |
| 05.08 | 45.008 | -- |
| 05.09 | 45.009 | -- |
| 05.10 | 45.010 | -- |
| 05.22 | 45.022 | -- |
| 05.50 | 45.050 | -- |
| 05.56 | 45.056 | -- |
| 45.902 | 45.202 | -- |
| 41.811 | 45.811 | -- |
| x | 45.902 | 45.202 |
| 06.01 | 46.001 | -- |
| 06.02 | 46.002 | -- |
| 06.06 | 46.006 | -- |
| 06.07 | 46.007 | -- |
| 06.08 | 46.008 | -- |
| 06.10 | 46.010 | -- |
| 06.11 | 46.011 | -- |
| 06.12 | 46.012 | -- |
| 06.20 | 46.020 | -- |
| 06.21 | 46.021 | -- |
| 06.22 | 46.022 | -- |
| 06.31 | 46.031 | -- |
| 06.32 | 46.032 | -- |
| 06.41 | 46.041 | -- |
| 06.42 | 46.042 | -- |
| 06.51 | 46.051 | -- |
| 06.53 | 46.053 | -- |
| 06.54 | 46.054 | -- |
| 06.55 | 46.055 | -- |
| 06.60 | 46.060 | -- |
| 06.61 | 46.061 | -- |
| 06.62 | 46.062 | -- |
| 06.76 | 46.076 | -- |
| 06.81 | 46.081 | -- |
| 06.82 | 46.082 | -- |
| 06.85 | 46.085 | -- |
| 08.01 | 48.001 | -- |
| 08.02 | 48.002 | -- |
| 08.04 | 48.004 | -- |
| 08.06 | 48.006 | -- |
| 08.08 | 48.008 | -- |
| 08.14 | 48.014 | -- |
| 08.16 | 48.016 | -- |
| 08.18 | 48.018 | -- |
| 08.20 | 48.020 | -- |
| 08.31 | 48.031 | -- |
| 08.51 | 48.051 | -- |
| 08.52 | 48.052 | -- |
| 08.54 | 48.054 | -- |
| 08.56 | 48.056 | -- |
| 08.58 | 48.058 | -- |

| grandfather | father | son |
|-------------|----------|-----|
| 08.60 | 48.060 | -- |
| 08.61 | 48.061 | -- |
| 08.62 | 48.062 | -- |
| 08.71 | 48.071 | -- |
| 09.01 | 49.001 | -- |
| 09.08 | 49.008 | -- |
| 09.31 | 49.031 | -- |
| 09.94 | 49.994 | -- |
| 10.43 | 50.043 | -- |
| 10.56 | 50.056 | -- |
| 10.59 | 50.059 | -- |
| 10.89 | 50.089 | -- |
| 10.99 | 50.099 | -- |
| 11.10-1 | 51.010-1 | -- |
| 11.10-2 | 51.010-2 | -- |
| 11.10-3 | 51.010-3 | -- |
| 11.10-4 | 51.010-4 | -- |
| 11.11 | 51.011 | -- |
| 11.13 | 51.013 | -- |
| 11.14 | 51.014 | -- |
| 11.21 | 51.021 | -- |
| 11.26 | 51.026 | -- |
| 32.108 | 52.008 | -- |
| 12.21 | 52.021 | -- |
| 12.71 | 52.071 | -- |
| 32.402 | 52.402 | -- |
| x | 55.205 | -- |
| x | 55.216 | -- |
| x | 55.217 | -- |
| x | 55.218 | -- |
| x | 55.919 | -- |
| x | TBR 5 | -- |
| x | TBR 9 | -- |
| x | TBR19 | -- |
| x | TBR20 | -- |
| x | TBR31 | -- |
| x | TBR32 | -- |

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