
Content of ITU-T Recommendations on DVD March 2006 Edition

Series A : Organization of the work of ITU-T

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		Organization of the work of ITU-T	
A.1	10-2004	Work methods for study groups of the ITU Telecommunication Standardization Sector (ITU-T)	
A.2	10-2004	Presentation of contributions relative to the study of Questions assigned to ITU-T	
A.4	06-2002	Communication process between ITU-T and Forums and Consortia	
A.5	11-2001	Generic procedures for including references to documents of other organizations in ITU-T Recommendations	
A.6	06-2002	Cooperation and exchange of information between ITU-T and national and regional standards development organizations	
A.7	10-2004	Focus groups: Working methods and procedures	
A.8	10-2004	Alternative approval process for new and revised Recommendations	
A.9	11-2003	Working procedures for the Special Study Group on IMT-2000 and Beyond	
A.11	10-2004	Publication of ITU-T Recommendations and WTSA proceedings	
A.12	10-2004	Identification and layout of ITU-T Recommendations	
A.13	10-2000	Supplements to ITU-T Recommendations	
A.13	10-2000		
A.23	10-1996	Collaboration with the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) on information technology	Not available, contact sales@itu.int.
A.23 Annex A	11-2001	Guide to ITU-T and ISO/IEC JTC1 cooperation	
A.Sup2	06-2000	Guidelines on interoperability experiments	
A.Sup3	11-2001	IETF and ITU-T collaboration guidelines	

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Series D : General tariff principles

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D.3	06-1992	Principles for the lease of analogue international circuits for private service	
D.3	06-1992		
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D.5	11-1988	Costs and value of services rendered as factors in the fixing of rates	
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D.8	11-1988	Special conditions for the lease of international end-to-end digital circuits for private service	
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D.40	06-1992	General tariff principles applicable to telegrams exchanged in the international public telegram service
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D.140 (2002) Amendment 2	06-2003	Revision to Annex E	
D.140 (2002) Amendment 3	11-2003	Revised Annex A – Guidelines for the cost elements to be taken into account when determining accounting rates and accounting rate shares for the international telephone service	
D.140 Supplement 1	06-2002	Updated teledensities and indicative target settlement rates	
D.140 Supplement 2	06-2003	Updated teledensities and indicative target settlement rates (1 January 2003)	
D.140 Supplement 3	06-2004	Updated teledensities and indicative target settlement rates (1 January 2004)	
D.150	06-1999	New system for accounting in international telephony	
D.150	06-1999		
D.150 (1999) Amend.1	09-2005	Optional transit share arrangement	Not available, contact sales@itu.int.
D.151	11-1988	Old system for accounting in international telephony	
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D.604R	01-2005	The last international transit center pays the traffic	
D.606R	11-1988	Preferential rates in telecommunication relations between countries in Africa	
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D.Sup1	11-1988	Cost and tariff study method	Available only in PDF.
D.Sup1	11-1988		Available only in PDF.
D.Sup2	11-1988	Method for carrying out a cost price study by regional tariff groups	
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E.104	02-1995	International telephone directory assistance service and public access	
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E.115	02-2006	Computerized directory assistance	Not available, contact sales@itu.int.
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E.164	02-2005	The international public telecommunication numbering plan
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E.164.3	09-2001	Principles, criteria and procedures for the assignment and reclamation of E.164 country codes and associated identification codes for groups of countries
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E.165.1	10-1996	Use of escape code "0" within the E.164 numbering plan during the transition period to implementation of NPI mechanism
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E.166/X.122	03-1998	Numbering plan interworking for the E.164 and X.121 numbering plans
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E.169.1	09-2001	Application of Recommendation E.164 numbering plan for universal international freephone numbers for international freephone service
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E.191.1	02-2001	Criteria and procedures for the allocation of ITU-T International Network Designator addresses

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E.212	05-2004	The international identification plan for mobile terminals and mobile users
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E.217	05-2002	Maritime communications – Ship station identity
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G.729 Annex B (1996) Corrigendum 2	02-2000		
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G.8011/Y.1307 (2004) Corrigendum 1	06-2005		
G.8011/Y.1307 (2004) Amendment 1	08-2005		
G.8011/Y.1307 (2004) Amendment 1	08-2005		
G.8011.1/Y.1307. 1	08-2004	Ethernet private line service	
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G.8011.1/Y.1307. 1 (2004) Corrigendum 1	06-2005		

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G.8011.1/Y.1307.1 (2004) Corrigendum 1	06-2005		
G.8011.2/Y.1307.2	09-2005	Ethernet virtual private line service	
G.8011.2/Y.1307.2	09-2005		
G.8012/Y.1308	08-2004	Ethernet UNI and Ethernet NNI	
G.8012/Y.1308	08-2004		
G.8021/Y.1341	08-2004	Characteristics of Ethernet transport network equipment functional blocks	
G.8021/Y.1341	08-2004		
G.8040/Y.1340	09-2005	GFP frame mapping into plesiochronous digital hierarchy (PDH)	
G.8040/Y.1340	09-2005		
G.8080/Y.1304	11-2001	Architecture for the automatically switched optical network (ASON)	
G.8080/Y.1304	11-2001		
G.8080/Y.1304 (2001) Amendment 2	02-2005		
G.8080/Y.1304 (2001) Amendment 2	02-2005		
G.8081/Y.1353	06-2004	Terms and definitions for Automatically Switched Optical Networks (ASON)	
G.8081/Y.1353	06-2004		
G.8110/Y.1370	01-2005	MPLS layer network architecture	
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G.8201	09-2003	Error performance parameters and objectives for multi-operator international paths within the Optical Transport Network (OTN)	
G.8251	11-2001	The control of jitter and wander within the optical transport network (OTN)	
G.8251 (2001) Corrigendum 1	06-2002		
G.8251 (2001) Amendment 1	06-2002		
G.9951	02-2001	Phoneline networking transceivers – Foundation	
G.9951	02-2001		
G.9952	11-2001	Phoneline networking transceivers – Payload format and link layer requirements	Not available, contact sales@itu.int.
G.9953	03-2003	Phoneline networking transceivers – Isolation function	

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G.9953	03-2003	Phoneline networking transceivers – Isolation function	
G.9954	02-2005	Phoneline networking transceivers – Enhanced physical, media access, and link layer specifications	Pre-published.
G.100 Series Supplement 29	03-1993	G1-5 Planning of mixed analogue-digital circuits (chains, connections)	
G.100 Series Supplement 31	03-1993	G8 Principles of determining an impedance strategy for the local network	
G.100 Series Supplement 32	03-1993	Transmission aspects of digital mobile radio systems	
G Suppl. 4	12-1972	G1-2 Certain methods of avoiding the transmission of excessive noise between interconnected systems	Not available, contact sales@itu.int .
G.Sup5	10-1984	G2-4 Measurement of the load of telephone circuits under field conditions	Available only in PDF.
G.Sup5	10-1984		Available only in PDF.
G Suppl. 7	12-1972	G7-1 Loss-frequency response of channel-translating equipment used in some countries for international circuits	Not available, contact sales@itu.int .
G Suppl. 8	12-1972	G7-4 Method proposed by the Belgian telephone administration for interconnection between coaxial and symmetric pair systems	Not available, contact sales@itu.int .
G.Sup17	10-1984	Group-delay distortion performance of terminal equipment	Available only in PDF.
G.Sup17	10-1984		Available only in PDF.
G.Sup19	10-1984	G1-2 Digital crosstalk measurement (method used by the Administrations of France, the Netherlands and Spain)	Available only in PDF.
G.Sup19	10-1984		Available only in PDF.
G.Sup22	10-1984	G8-4 Mathematical models of multiplex signals	Available only in PDF.
G.Sup22	10-1984		Available only in PDF.
G.Sup26	10-1984	Estimating the signal load margin of FDM wideband amplifier equipment and transmission systems	Available only in PDF.
G.Sup26	10-1984		Available only in PDF.
G.Sup27	10-1984	G1-2 Interference from external sources	Available only in PDF.
G.Sup28	10-1984	G1-4 Application of transmultiplexers, FDM codecs, data-in-voice (DIV) systems and data-over-voice (DOV) systems during the transition from an analogue to a digital network	Available only in PDF.

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G.Sup28	10-1984	Application of transmultiplexers, FDM codecs, data-in-voice (DIV) systems and data-over-voice (DOV) systems during the transition from an analogue to a digital network	Available only in PDF.
G Suppl. 32	11-1988	Transfer of alarm information on 60-channel transmultiplexing equipment	Not available, contact sales@itu.int.
G.Sup34	11-1988	Temperature in underground containers for the installation of repeaters	Available only in PDF.
G.Sup34	11-1988		Available only in PDF.
G.Sup35	11-1988	Guidelines concerning the measurement of wander	Available only in PDF.
G.Sup35	11-1988		Available only in PDF.
G.Sup36	11-1988	Jitter and wander accumulation in digital networks	Available only in PDF.
G.Sup36	11-1988		Available only in PDF.
G.Sup37	10-1998	ITU-T Recommendation G.763 digital circuit multiplication equipment (DCME) tutorial and dimensioning	
G.Sup37	10-1998		
G.Sup38	10-1998	Variable bit rate calculations for the ITU-T Recommendation G.767 Digital Circuit Multiplication Equipment (DCME)	
G.Sup38	10-1998		
G.Sup39	10-2003	Optical system design and engineering considerations	
G.Sup41 (2005) Erratum 1	01-2006		

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H.110	11-1988	Hypothetical reference connections for videoconferencing using primary digital group transmission	
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H.120	03-1993	Codecs for videoconferencing using primary digital group transmission	
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H.140	11-1988		
H.200	03-1993	Framework for Recommendations for audiovisual services	
H.200	03-1993		
H.221	03-2004	Frame structure for a 64 to 1920 kbit/s channel in audiovisual teleservices	
H.221	03-2004		
H.221 (2004) Amendment 1	09-2005	Support for 14 kHz audio bandwidth extension of G.722.1 Annex C in H.221	
H.222.0	02-2000	Information technology – Generic coding of moving pictures and associated audio information: Systems	
H.222.0	02-2000		
H.222.0 (2000) Technical Cor.1	03-2001		
H.222.0 (2000) Technical Cor.2	03-2002		
H.222.0 (2000) Amendment 1	12-2002	Carriage of metadata over ITU-T Rec. H.222.0 ISO/IEC 13818-1 streams	
H.222.0 (2000) Amend.1/Cor.1	06-2003		Not available, contact sales@itu.int.
H.222.0 Amendment 2	06-2003	Support of IPMP on MPEG-2 systems	

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H.222.0 (2000) Amendment 2 Erratum 1	02-2004		
H.222.0 (2000) Amendment 3	03-2004	Transport of AVC video data over ITU-T Rec. H.222.0 ISO/IEC 13818-1 streams	
H.222.0 (2000) Corrigendum 3	01-2005		
H.222.0 (2000) Amendment 4	01-2005	ISAN and V-ISAN use in the content labelling descriptor	
H.222.0 (2000) Amendment 5	01-2005	New audio profile and level signalling and change to audio_type table entry	
H.222.0 (2000) Corrigendum 4	09-2005		
H.222.1	03-1996	Multimedia multiplex and synchronization for audiovisual communication in ATM environments	
H.222.1	03-1996		
H.223	07-2001	Multiplexing protocol for low bit rate multimedia communication	
H.224	01-2005	A real time control protocol for simplex applications using the H.221 LSD/HSD/MLP channels	
H.225.0	07-2003	Call signalling protocols and media stream packetization for packet-based multimedia communication systems	
H.226	09-1998	Channel aggregation protocol for multilink operation on circuit-switched networks	
H.226	09-1998		
H.230	03-2004	Frame-synchronous control and indication signals for audiovisual systems	
H.230	03-2004		
H.230 (2004) Amendment 1	10-2005	Support of Unicode in H.320 systems and new Annex A for H.230 generic capabilities and messages in H.245	Pre-published.
H.231	07-1997	Multipoint control units for audiovisual systems using digital channels up to 1920 kbit/s	
H.231	07-1997		
H.233	11-2002	Confidentiality system for audiovisual services	
H.234	11-2002	Encryption key management and authentication system for audiovisual services	
H.235.0	09-2005	H.323 security: Framework for security in H-series (H.323 and other H.245-based) multimedia systems	Pre-published.
H.235.1	09-2005	H.323 security: Baseline security profile	
H.235.2	09-2005	H.323 security: Signature security profile	
H.235.3	09-2005	H.323 security: Hybrid security profile	
H.235.4	09-2005	H.323 security: Direct and selective routed call security	

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H.235.5	09-2005	H.323 security: Framework for secure authentication in RAS using weak shared secrets	
H.235.6	09-2005	H.323 security: Voice encryption profile with native H.235/H.245 key management	Pre-published.
H.235.7	09-2005	H.323 security: Usage of the MIKEY key management protocol for the Secure Real Time Transport Protocol (SRTP) within H.235	Pre-published.
H.235.8	09-2005	H.323 security: Key exchange for SRTP using secure signalling channels	
H.235.9	09-2005	H.323 security: Security gateway support for H.323	Available only in MS Word.
H.239	09-2005	Role management and additional media channels for H.300-series terminals	
H.239 (2005) Erratum 1	01-2006		
H.241	09-2005	Extended video procedures and control signals for H.300-series terminals	
H.242	03-2004	System for establishing communication between audiovisual terminals using digital channels up to 2 Mbit/s	
H.242	03-2004		
H.242 (2004) Amendment 1	09-2005	Support for 14 kHz audio bandwidth extension of G.722.1 Annex C in H.242	
H.243	10-2005	Procedures for establishing communication between three or more audiovisual terminals using digital channels up to 1920 kbit/s	Pre-published.
H.244	07-1995	Synchronized aggregation of multiple 64 or 56 kbit/s channels	
H.244	07-1995		
H.245	10-2005	Control protocol for multimedia communication	Pre-published.
H.246	02-1998	Interworking of H-series multimedia terminals with H-series multimedia terminals and voice/voiceband terminals on GSTN and ISDN	
H.246	02-1998		
H.246 (1998) Amendment 1	09-2005	Usage of H.243 multipoint control messages and support for Unicode characters in H.320 systems	
H.246 Annex C	07-2003	Annex C: ISDN User Part function – H.225.0 interworking	
H.246 Annex E1	11-2000	Mobile Application Part and H.225.0 interworking	
H.246 Annex E1	11-2000		
H.246 Annex E2	11-2000	ANSI-41 (Americas) Mobile Application Part and H.225.0 interworking	
H.246 Annex E2	11-2000		
H.246 Annex F	07-2001	H.323-H.324 Interworking	
H.247	09-1998	Multipoint extension for broadband audiovisual communication systems and terminals	
H.247	09-1998		
H.248.1 v3	09-2005	Gateway control protocol: Version 3	Pre-published.

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H.248.2	01-2005	Gateway control protocol: Facsimile, text conversation and call discrimination packages
H.248.3	11-2000	Gateway control protocol: User interface elements and actions packages
H.248.3 (2000) Corrigendum 1	03-2004	
H.248.4	11-2000	Gateway control protocol: Transport over Stream Control Transmission Protocol (SCTP)
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H.248.8	09-2005	Gateway control protocol: Error code and service change reason description
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H.248.10	07-2001	Gateway control protocol: Media gateway resource congestion handling package
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H.248.12	07-2001	Gateway control protocol: H.248.1 packages for H.323 and H.324 interworking
H.248.12 (2001) Amendment 1	11-2002	New Annex A: Extended H.324, H.245 command and H.245 indication packages
H.248.13	03-2002	Gateway control protocol: Quality Alert Ceasing package
H.248.14	03-2002	Gateway control protocol: Inactivity timer package
H.248.15	03-2002	Gateway control protocol: SDP H.248 package attribute
H.248.16	11-2002	Gateway control protocol: Enhanced digit collection packages and procedures
H.248.16 (2002) Corrigendum 1	03-2004	
H.248.17	11-2002	Gateway control protocol: Line test packages
H.248.17 (2002) Corrigendum 1	03-2004	
H.248.18	11-2002	Gateway control protocol: Package for support of multiple profiles
H.248.19	03-2004	Gateway control protocol: Decomposed multipoint control unit, audio, video and data conferencing packages
H.248.20	11-2002	Gateway control protocol: The use of local and remote descriptors with H.221 and H.223 multiplexing
H.248.21	03-2004	Gateway control protocol: Semi-permanent connection handling package
H.248.22	07-2003	Gateway control protocol: Shared Risk Group package

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H.248.22 (2003) Erratum 1	01-2004	
H.248.23	01-2005	Gateway control protocol: Enhanced Alerting packages
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H.248.26	01-2005	Gateway control protocol: Enhanced analogue lines packages
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H.248.28	03-2004	Gateway control protocol: International CAS packages
H.248.29	01-2005	Gateway control protocol: International CAS compelled register signalling packages
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H.248.32	01-2005	Gateway control protocol: Detailed congestion reporting package
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H.248.34	01-2005	Gateway control protocol: Stimulus analogue line package
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H.248.36	09-2005	Gateway control protocol: Hanging Termination Detection package
H.248.37	09-2005	Gateway control protocol: IP NAPT traversal package
H.261	03-1993	Video codec for audiovisual services at p x 64 kbit/s
H.261	03-1993	
H.262	02-2000	Information technology – Generic coding of moving pictures and associated audio information: Video
H.262	02-2000	
H.262 (2000) Technical Cor. 1	11-2000	
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H.262 (2000) Amendment 1	11-2000	Content description data
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H.262 (2000) Amendment 1 Erratum 1	04-2002	
H.263	01-2005	Video coding for low bit rate communication

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H.263 Appendix III	06-2001	Examples for H.263 encoder/decoder implementations	
H.264	03-2005	Advanced video coding for generic audiovisual services	
H.264 (2005) Cor.1	09-2005		Not available, contact sales@itu.int.
H.264.1	03-2005	Conformance specification for H.264 advanced video coding	
H.264.1 (2005) Corrigendum 1	09-2005		Pre-published.
H.264.2	03-2005	Reference software for H.264 advanced video coding	Available only in MS Word.
H.264.2 (2005) Cor.1	10-2005		Not available, contact sales@itu.int.
H.281	11-1994	A far end camera control protocol for videoconferences using H.224	
H.281	11-1994		
H.282	05-1999	Remote device control protocol for multimedia applications	
H.282	05-1999		
H.283	05-1999	Remote device control logical channel transport	
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H.310	09-1998	Broadband audiovisual communication systems and terminals	
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H.310 (1998) Corrigendum 1	01-2005		
H.320	03-2004	Narrow-band visual telephone systems and terminal equipment	
H.320	03-2004		
H.321	02-1998	Adaptation of H.320 visual telephone terminals to B-ISDN environments	
H.321	02-1998		
H.321 (1998) Corrigendum 1	01-2005		
H.322	03-1996	Visual telephone systems and terminal equipment for local area networks which provide a guaranteed quality of service	
H.322	03-1996		
H.323	07-2003	Packet-based multimedia communications systems	
H.323 (2003) Amendment 1	01-2005	Revised Annex D – Real-time facsimile over H.323 systems: Transport of facsimile signals using RTP	

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H.323 (2003) Amendment 2	01-2005	New Annex M4 – Tunnelling of narrowband signalling syntax (NSS) for H.323	
H.324	09-2005	Terminal for low bit-rate multimedia communication	Pre-published.
H.331	03-1993	Broadcasting type audiovisual multipoint systems and terminal equipment	
H.331	03-1993		
H.332	09-1998	H.323 extended for loosely coupled conferences	
H.332	09-1998		
H.341	05-1999	Multimedia management information base	Available only in MS Word.
H.350	08-2003	Directory services architecture for multimedia conferencing	Available only in MS Word.
H.350.1	08-2003	Directory services architecture for H.323	Available only in MS Word.
H.350.2	08-2003	Directory services architecture for H.235	Available only in MS Word.
H.350.3	08-2003	Directory services architecture for H.320	Available only in MS Word.
H.350.4	08-2003	Directory services architecture for SIP	
H.350.5	08-2003	Directory services architecture for non-standard protocols	Available only in MS Word.
H.350.6	03-2004	Directory services architecture for call forwarding and preferences	
H.360	03-2004	An architecture for end-to-end QoS control and signalling	
H.450.1	02-1998	Generic functional protocol for the support of supplementary services in H.323	
H.450.1	02-1998		
H.450.2	02-1998	Call transfer supplementary service for H.323	
H.450.2	02-1998		
H.450.3	02-1998	Call diversion supplementary service for H.323	
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H.450.6	05-1999	Call waiting supplementary service for H.323
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H.450.8	02-2000	Name identification supplementary service for H.323
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H.450.12	07-2001	Common Information Additional Network Feature for H.323
H.460.1	03-2002	Guidelines for the Use of the Generic Extensible Framework
H.460.2	07-2001	Number Portability interworking between H.323 and SCN networks
H.460.3	11-2002	Circuit maps within H.323 systems
H.460.4	11-2002	Call priority designation for H.323 calls
H.460.5	11-2002	H.225.0 transport of multiple Q.931 information elements of the same type
H.460.6	11-2002	Extended Fast Connect feature
H.460.7	11-2002	Digit maps within H.323 systems
H.460.8	11-2002	Querying for alternate routes within H.323 systems
H.460.9	11-2002	Support for online QoS-monitoring reporting within H.323 systems
H.460.9 (2002) Amendment 1	03-2004	New Annex B – Extended performance metrics
H.460.10	03-2004	Call party category within H.323 systems
H.460.11	03-2004	Delayed call establishment within H.323 systems
H.460.12	03-2004	Glare control indicator within H.323 systems
H.460.13	03-2004	Called user release control within H.323 systems
H.460.14	03-2004	Support for Multi-Level Precedence and Preemption (MLPP) within H.323 systems
H.460.15	03-2004	Call signalling transport channel suspension and redirection within H.323 systems
H.460.16	01-2005	Multiple-message release sequence capability within H.323 systems
H.460.17	09-2005	Using H.225.0 call signalling connection as transport for H.323 RAS messages

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H.460.18	09-2005	Traversal of H.323 signalling across network address translators and firewalls
H.460.19	09-2005	Traversal of H.323 media across network address translators and firewalls
H.460.20	09-2005	Location number within H.323 systems
H.501	03-2002	Protocol for mobility management and intra/inter-domain communication in multimedia systems
H.510	03-2002	Mobility for H.323 multimedia systems and services
H.530	03-2002	Symmetric security procedures for H.323 mobility in H.510
H.530 Corrigendum 1	07-2003	
H.610	07-2003	Full service VDSL – System architecture and customer premises equipment
H.611	07-2003	Full-Service VDSL – Operations, Administration Maintenance & Provision aspects
H.Sup1	05-1999	Application profile – Sign language and lip-reading real-time conversation using low bit rate video communication
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I.230	11-1988	Definition of bearer service categories
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		Circuit-mode bearer service categories
I.231.1	11-1988	Circuit-mode 64 kbit/s unrestricted, 8 kHz structured bearer service
I.231.1	11-1988	
I.231.2	11-1988	Circuit-mode 64 kbit/s, 8 kHz structured bearer service usable for speech information transfer
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I.231.3	11-1988	Circuit-mode 64 kbit/s, 8 kHz structured bearer service usable for 3.1 kHz audio information transfer
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		Packet-mode bearer services categories
I.232.1	11-1988	Virtual call and permanent virtual circuit bearer service category

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I.232.1	11-1988	Virtual call and permanent virtual circuit bearer service category	
I.232.2	11-1988	Connectionless bearer service category	Not available, contact < a href='mailto:sales@itu.int'>sales@itu.int .
I.232.3	03-1993	User signalling bearer service category (USBS)	
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I.233.1 Annex F	07-1996		
I.233.2	10-1991	ISDN frame switching bearer service	
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I.241.1	11-1988	Telephony	
I.241.1	11-1988		
I.241.2	11-1988	Teletex	
I.241.2	11-1988		
I.241.3	11-1988	Telefax 4	
I.241.3	11-1988		
I.241.4	11-1988	Mixed mode	
I.241.4	11-1988		
I.241.5	11-1988	Videotex	
I.241.5	11-1988		
I.241.6	11-1988	Telex	
I.241.6	11-1988		
I.241.7	03-1993	Telephony 7 kHz teleservice	
I.241.7	03-1993		
I.241.8	10-1995	Teleaction stage one service description	
I.241.8	10-1995		
I.250	11-1988	Definition of supplementary services	

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I.250	11-1988	Definition of supplementary services	
		Number identification supplementary services	
I.251.1	08-1992	Direct-dialling-In	Available only in PDF.
I.251.1	08-1992		Available only in PDF.
I.251.2	08-1992	Multiple Subscriber Number	
I.251.2	08-1992		
I.251.3	08-1992	Calling Line Identification Presentation	
I.251.3	08-1992		
I.251.4	08-1992	Calling Line Identification Restriction	
I.251.4	08-1992		
I.251.5	02-1995	Connected Line Identification Presentation (COLP)	
I.251.5	02-1995		
I.251.6	02-1995	Connected Line Identification Restriction (COLR)	
I.251.6	02-1995		
I.251.7	08-1992	Malicious call Identification	
I.251.7	08-1992		
I.251.8	08-1992	Sub-addressing supplementary service	
I.251.8	08-1992		
I.251.9	07-1996	Calling name identification presentation	
I.251.9	07-1996		
I.251.10	07-1996	Calling name identification restriction	
I.251.10	07-1996		
		Call offering supplementary services	
I.252.1	11-1988	Call Transfer	
I.252.1	11-1988		
I.252.2	08-1992	Call Forwarding Busy	
I.252.2	08-1992		
I.252.3	08-1992	Call Forwarding No Reply	
I.252.3	08-1992		
I.252.4	08-1992	Call Forwarding Unconditional	

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I.252.4	08-1992	Call Forwarding Unconditional
I.252.5	08-1992	Call Deflection
I.252.5	08-1992	
I.252.6	11-1988	Line Hunting (LH)
I.252.6	11-1988	
I.252.7	05-1997	Explicit call transfer
I.252.7	05-1997	
		Call completion supplementary services
I.253.1	11-1988	Call waiting (CW) supplementary service
I.253.1	11-1988	
I.253.2	08-1992	Call Hold
I.253.2	08-1992	
I.253.3	07-1996	Completion of calls to busy subscribers
I.253.3	07-1996	
I.253.4	07-1996	Completion of calls on no reply
I.253.4	07-1996	
		Multiparty supplementary services
I.254.1	11-1988	Conference calling (CONF)
I.254.1	11-1988	
I.254.2	08-1992	Three-Party Supplementary Service
I.254.2	08-1992	
I.254.5	05-1997	Meet-me conference
I.254.5	05-1997	
		Community of interest supplementary services
I.255.1	08-1992	Closed User Group
I.255.1	08-1992	
I.255.2	07-1996	Support of Private Numbering Plans
I.255.2	07-1996	
I.255.3	07-1990	Multi-level precedence and preemption service (MLPP)
I.255.3	07-1990	
I.255.4	07-1990	Priority service

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I.255.4	07-1990	Priority service	
I.255.5	08-1992	Outgoing call barring	
I.255.5	08-1992		
		Charging supplementary services	
I.256.1	11-1988	Credit card calling (CRED)	Not available, contact < a href='mailto:sales@itu.int'>sales@itu.int .
I.256.2a	03-1993	Advice of charge: charging information at call set-up time (AOC-S)	
I.256.2a	03-1993		
I.256.2b	03-1993	Advice of charge: charging information during the call (AOC-D)	
I.256.2b	03-1993		
I.256.2c	03-1993	Advice of charge: charging information at the end of the call (AOC-E)	
I.256.2c	03-1993		
I.256.3	08-1992	Reverse charging	
I.256.3	08-1992		
		Additional information transfer supplementary services	
I.257.1	10-1995	User-to-User Signalling (UUS)	
I.257.1	10-1995		
		Mobility and modification supplementary services	
I.258.1	10-1995	Terminal portability (TP)	
I.258.1	10-1995		
I.258.2	02-1995	In-call modification (IM)	
I.258.2	02-1995		
		Screening supplementary services	
I.259.1	07-1996	Address screening (ADS)	
I.259.1	07-1996		
I.310	03-1993	ISDN – Network functional principles	
I.310	03-1993		
I.311	08-1996	B-ISDN general network aspects	
I.311	08-1996		
I.311 (1996) Amendment 1	03-2000		

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I.311 (1996) Amendment 1	03-2000	
I.312/Q.1201	10-1992	Principles of intelligent network architecture
I.312/Q.1201	10-1992	
I.313	09-1997	B-ISDN network requirements
I.313	09-1997	
I.320	11-1993	ISDN protocol reference model
I.320	11-1993	
I.321	04-1991	B-ISDN protocol reference model and its application
I.321	04-1991	
I.322	02-1999	Generic protocol reference model for telecommunication networks
I.322	02-1999	
I.324	10-1991	ISDN network architecture
I.324	10-1991	
I.325	03-1993	Reference configurations for ISDN connection types
I.325	03-1993	
I.326	03-2003	Functional architecture of transport networks based on ATM
I.327	03-1993	B-ISDN functional architecture
I.327	03-1993	
I.328/Q.1202	09-1997	Intelligent network – Service plane architecture
I.328/Q.1202	09-1997	
I.329/Q.1203	09-1997	Intelligent network – Global functional plane architecture
I.329/Q.1203	09-1997	
I.330	11-1988	ISDN numbering and addressing principles
I.330	11-1988	
E.164	02-2005	The international public telecommunication numbering plan
E.164 Supplement 1	03-1998	Alternatives for carrier selection and network identification
E.164 Supplement 1	03-1998	
E.164 Supplement 2	11-1998	Number Portability
E.164 Supplement 2	11-1998	

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E.164 Supplement 3	05-2004	Operational and administrative issues associated with national implementations of the ENUM functions
E.164 Supplement 4	05-2004	Operational and administrative issues associated with the implementation of ENUM for non-geographic country codes
I.333	03-1993	Terminal selection in ISDN
I.333	03-1993	
I.334	11-1988	Principles relating ISDN numbers/sub-addresses to the OSI reference model network layer addresses
I.334	11-1988	
I.340	11-1988	ISDN connection types
I.340	11-1988	
I.350	03-1993	General aspects of quality of service and network performance in digital networks, including ISDNs
I.350	03-1993	
G.820/I.351/Y.15 01	07-2004	Relationships among ISDN, IP-based network and physical layer performance Recommendations
G.820/I.351/Y.15 01	07-2004	
G.820/I.351/Y.15 01	07-2004	
I.352	03-1993	Network performance objectives for connection processing delays in an ISDN
I.352	03-1993	
I.353	08-1996	Reference events for defining ISDN and B-ISDN performance parameters
I.353	08-1996	
I.354	03-1993	Network performance objectives for packet-mode communication in an ISDN
I.354	03-1993	
I.355	10-2000	ISDN 64 kbit/s connection type availability performance
I.355	10-2000	
I.356	03-2000	B-ISDN ATM layer cell transfer performance
I.356	03-2000	
I.356 (2000) Amendment 1	02-2004	New Appendix V – Support of Y.1541 QoS classes 0 and 2 in ATM-based networks
I.357	11-2000	B-ISDN semi-permanent connection availability
I.357	11-2000	
I.358	09-2003	Call processing performance for switched virtual channel connections (VCCs) in a B-ISDN

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I.359	02-1999	Accuracy and dependability of ISDN 64 kbit/s circuit-mode connection types
I.359	02-1999	
I.361	02-1999	B-ISDN ATM layer specification
I.361	02-1999	
		B-ISDN ATM Adaptation Layer specification
I.363.1	08-1996	Type 1 AAL
I.363.1	08-1996	
I.363.2	11-2000	Type 2 AAL
I.363.2	11-2000	
I.363.3	08-1996	Type 3/4 AAL
I.363.3	08-1996	
I.363.5	08-1996	Type 5 AAL
I.363.5	08-1996	
I.364	02-1999	Support of the broadband connectionless data bearer service by the B-ISDN
I.364	02-1999	
		B-ISDN ATM adaptation layer sublayers
I.365.1	11-1993	Frame relaying service specific convergence sublayer (FR-SSCS)
I.365.1	11-1993	
I.365.2	11-1995	Service-specific coordination function to provide the connection-oriented network service
I.365.2	11-1995	
I.365.3	11-1995	Service-specific coordination function to provide the connection-oriented transport service
I.365.3	11-1995	
I.365.4	08-1996	Service-specific convergence sublayer for HDLC applications
I.365.4	08-1996	
I.366.1	06-1998	Segmentation and Reassembly Service Specific Convergence Sublayer for the AAL type 2
I.366.1	06-1998	
I.366.2	11-2000	AAL type 2 service specific convergence sublayer for narrow-band services
I.366.2	11-2000	

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I.366.2 (2000) Corrigendum 1	03-2002		
I.370	10-1991	Congestion management for the ISDN frame relaying bearer service	
I.370	10-1991		
I.371	03-2004	Traffic control and congestion control in B-ISDN	Pre-published.
I.372	03-1993	Frame relaying bearer service network-to-network interface requirements	
I.372	03-1993		
I.373	03-1993	Network capabilities to support universal personal telecommunication (UPT)	
I.373	03-1993		
		Network capabilities to support multimedia services	
I.375.1	06-1998	General aspects	
I.375.1	06-1998		
I.375.2	06-1998	Example of multimedia retrieval service class – Video-on-demand service using an ATM-based network	
I.375.2	06-1998		
I.375.3	03-2000	Example of multimedia distribution service class – Switched digital broadcasting	
I.375.3	03-2000		
I.376	03-1995	ISDN network capabilities for the support of the teleaction service	
I.376	03-1995		
I.377	10-2000	Network requirements to support charging and accounting in B-ISDN	
I.377	10-2000		
I.378	12-2002	Traffic control and congestion control at the ATM Adaptation Layer type 2	
I.378 (2002) Amendment 1	08-2003	New Appendix IV: Deriving AAL 2 traffic parameters from AAL 2 link characteristics	
I.381	03-2001	ATM adaptation layer (AAL) Performance	
I.410	11-1988	General aspects and principles relating to Recommendations on ISDN user-network interfaces	
I.410	11-1988		
I.411	03-1993	ISDN user-network interfaces – Reference configurations	
I.411	03-1993		
I.412	11-1988	ISDN user-network interfaces – Interface structures and access capabilities	
I.412	11-1988		

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I.413	03-1993	B-ISDN user-network interface
I.413	03-1993	
I.414	09-1997	Overview of Recommendations on layer 1 for ISDN and B-ISDN customer accesses
I.414	09-1997	
I.420	11-1988	Basic user-network interface
I.420	11-1988	
I.421	11-1988	Primary rate user-network interface
I.421	11-1988	
I.430	11-1995	Basic user-network interface – Layer 1 specification
I.430	11-1995	
I.431	03-1993	Primary rate user-network interface – Layer 1 specification
I.431	03-1993	
I.431 (1993) Amendment 1	06-1997	
I.431 (1993) Amendment 1	06-1997	
		B-ISDN user-network interface – Physical layer specification
I.432.1	02-1999	General characteristics
I.432.1	02-1999	
I.432.2	02-1999	155 520 kbit/s and 622 080 kbit/s operation
I.432.2	02-1999	
I.432.3	02-1999	1544 kbit/s and 2048 kbit/s operation
I.432.3	02-1999	
I.432.4	02-1999	51 840 kbit/s operation
I.432.4	02-1999	
I.432.5	06-1997	25 600 kbit/s operation
I.432.5	06-1997	
Q.920	03-1993	ISDN user-network interface data link layer – General aspects
Q.920	03-1993	
Q.920 (1993) Amendment 1	06-2000	
Q.920 (1993) Amendment 1	06-2000	

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Q.921	09-1997	ISDN user-network interface – Data link layer specification
Q.921	09-1997	
Q.921 (1997) Amendment 1	06-2000	
Q.921 (1997) Amendment 1	06-2000	
Q.930	03-1993	ISDN user-network interface layer 3 – General aspects
Q.930	03-1993	
Q.931	05-1998	ISDN user-network interface layer 3 specification for basic call control
Q.931	05-1998	
Q.931 (1998) Amendment 1	12-2002	Extensions for the support of digital multiplexing equipment
Q.931 (1998) Erratum 1	02-2003	
I.460	02-1999	Multiplexing, rate adaption and support of existing interfaces
I.460	02-1999	
X.30	03-1993	Support of X.21, X.21 bis and X.20 bis based Data Terminal Equipments (DTEs) by an Integrated Services Digital Network (ISDN)
X.30	03-1993	
X.31	11-1995	Support of packet mode terminal equipment by an ISDN
X.31	11-1995	
V.110	02-2000	Support by an ISDN of data terminal equipments with V-series type interfaces
V.110	02-2000	
I.464	02-1999	Multiplexing, rate adaption and support of existing interfaces for restricted 64 kbit/s transfer capability
I.464	02-1999	
V.120	10-1996	Support by an ISDN of data terminal equipment with V-series type interfaces with provision for statistical multiplexing
V.120	10-1996	
V.120 (1996) Corrigendum 1	05-1999	
V.120 (1996) Corrigendum 1	05-1999	
I.470	11-1988	Relationship of terminal functions to ISDN
I.470	11-1988	
I.480	03-2000	1+1 protection switching for cell-based physical layer

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I.480	03-2000	1+1 protection switching for cell-based physical layer
I.500	03-1993	General structure of the ISDN interworking Recommendations
I.500	03-1993	
I.501	03-1993	Service interworking
I.501	03-1993	
I.510	03-1993	Definitions and general principles for ISDN interworking
I.510	03-1993	
I.511	11-1988	ISDN-to-ISDN layer 1 internetwork interface
I.511	11-1988	
I.515	03-1993	Parameter exchange for ISDN interworking
I.515	03-1993	
I.520	03-1993	General arrangements for network interworking between ISDNs
I.520	03-1993	
I.525	08-1996	Interworking between networks operating at bit rates less than 64 kbit/s with 64 kbit/s-based ISDN and B-ISDN
I.525	08-1996	
I.530	03-1993	Network interworking between an ISDN and a public switched telephone network (PSTN)
I.530	03-1993	
X.321	10-1996	General arrangements for interworking between Circuit-Switched Public Data Networks (CSPDNs) and Integrated Services Digital Networks (ISDNs) for the provision of data transmission services
X.321	10-1996	
X.325	10-1996	General arrangements for interworking between Packet-Switched Public Data Networks (PSPDNs) and Integrated Services Digital Networks (ISDNs) for the provision of data transmission services
X.325	10-1996	
I.555	09-1997	Frame Relaying Bearer Service interworking
I.555	09-1997	
U.202	03-1993	Technical requirements to be met in providing the international telex service within an integrated services digital network
U.202	03-1993	
I.570	03-1993	Public/private ISDN interworking
I.570	03-1993	
I.571	08-1996	Connection of VSAT based private networks to the public ISDN

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I.571	08-1996	Connection of VSAT based private networks to the public ISDN
I.572	03-2000	VSAT interconnection with the PSTN
I.572	03-2000	
I.580	11-1995	General arrangements for interworking between B-ISDN and 64 kbit/s based ISDN
I.580	11-1995	
I.581	09-1997	General arrangements for B-ISDN interworking
I.581	09-1997	
I.601	11-1988	General maintenance principles of ISDN subscriber access and subscriber installation
I.601	11-1988	
I.610	02-1999	B-ISDN operation and maintenance principles and functions
I.610	02-1999	
I.610 (1999) Corrigendum 1	03-2000	
I.610 (1999) Corrigendum 1	03-2000	
I.610 (1999) Amendment 1	03-2000	
I.610 (1999) Amendment 1	03-2000	
I.630	02-1999	ATM protection switching
I.630	02-1999	
I.630 (1999) Corrigendum 1	03-2000	
I.630 (1999) Corrigendum 1	03-2000	
I.630 (1999) Amendment 1	03-2000	
I.630 (1999) Amendment 1	03-2000	
I.731	10-2000	Types and general characteristics of ATM equipment
I.731	10-2000	
I.732	10-2000	Functional characteristics of ATM equipment
I.732	10-2000	
I.741	07-1999	Interworking and interconnection between ATM and switched telephone networks for the transmission of speech, voiceband data and audio signals
I.741	07-1999	

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I.751	03-1996	Asynchronous transfer mode management of the network element view
I.751	03-1996	
I.761	03-2000	Inverse multiplexing for ATM (IMA)
I.761	03-2000	
I.762	03-2000	ATM over fractional physical links
I.762	03-2000	
I.Sup1	03-1998	Generic service descriptions for ten supplementary services defined in I.250-Series Recommendations
I.Sup1	03-1998	

Recommendation count: 406

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Series J : Cable networks and transmission of television, sound programme and other multimedia signals

<i>Number</i>	<i>Approval Date</i>	<i>Recommendation Title</i>	<i>Status</i>
		Cable networks and transmission of television, sound programme and other multimedia signals	
J.2	09-1999	Guidelines on the use of some ITU-T Recommendations in the J series	
J.2	09-1999		
J.11	11-1988	Hypothetical reference circuits for sound-programme transmissions	
J.11	11-1988		
J.12	11-1988	Types of sound-programme circuits established over the international telephone network	
J.12	11-1988		
J.13	11-1988	Definitions for international sound-programme circuits	
J.13	11-1988		
J.14	11-1988	Relative levels and impedances on an international sound-programme connection	
J.14	11-1988		
J.15	11-1988	Lining-up and monitoring an international sound-programme connection	
J.15	11-1988		
J.16	11-1988	Measurement of weighted noise in sound-programme circuits	
J.16	11-1988		
J.17	11-1988	Pre-emphasis used on sound-programme circuits	
J.17	11-1988		
J.18	11-1988	Crosstalk in sound-programme circuits set up on carrier systems	
J.18	11-1988		
J.19	11-1988	A conventional test signal simulating sound-programme signals for measuring interference in other channels	
J.19	11-1988		
J.21	08-1994	Performance characteristics of 15 kHz-type sound-programme circuits – Circuits for high quality monophonic and stereophonic transmissions	
J.21	08-1994		
J.23	11-1988	Performance characteristics of 7 kHz type (narrow bandwidth) sound-programme circuits	

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J.23	11-1988	Performance characteristics of 7 kHz type (narrow bandwidth) sound-programme circuits
J.24	02-1982	Modulation of signals carried by sound-programme circuits by interfering signals from power supply sources
J.24	02-1982	
J.25	05-1986	Estimation of transmission performance of sound-programme circuits shorter or longer than the hypothetical reference circuit
J.25	05-1986	
J.26	06-1990	Test signals to be used on international sound-programme connections
J.26	06-1990	
J.27	06-1990	Signals for the alignment of international sound-programme connections
J.27	06-1990	
J.41	11-1988	Characteristics of equipment for the coding of analogue high quality sound programme signals for transmission on 384 kbit/s channels
J.41	11-1988	
J.42	11-1988	Characteristics of equipment for the coding of analogue medium quality sound-programme signals for transmission on 384-kbit/s channels
J.42	11-1988	
J.51	08-1994	General principles and user requirements for the digital transmission of high quality sound programmes
J.51	08-1994	
J.52	07-1996	Digital transmission of high-quality sound-programme signals using one, two or three 64 kbit/s channels per mono signal (and up to six per stereo signal)
J.52	07-1996	
J.52 (1996) Amendment 1	09-1999	New Appendix II – Extracts from EBU specification of an ISDN Codec capable of delivering high-quality audio
J.52 (1996) Amendment 1	09-1999	
J.53	05-2000	Sampling frequencies to be used for the digital transmission of studio-quality and high-quality sound-programme signals
J.53	05-2000	
J.54	05-1986	Transmission of analogue high-quality sound-programme signals on mixed analogue-and-digital circuits using 384 kbit/s channels
J.54	05-1986	
J.55	06-1990	Digital transmission of high-quality sound-programme signals on distribution circuits using 480 kbit/s (496 kbit/s) per audio channel
J.55	06-1990	
J.57	06-1990	Transmission of digital studio quality sound signals over H1 channels

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J.57	06-1990	Transmission of digital studio quality sound signals over H1 channels	
J.61	06-1990	Transmission performance of television circuits designed for use in international connections	Available only in PDF.
J.61	06-1990		Available only in PDF.
J.62	02-1978	Single value of the signal-to-noise ratio for all television systems	
J.62	02-1978		
J.63	06-1990	Insertion of test signals in the field-blanking interval of monochrome and colour television signals	
J.63	06-1990		
J.64	02-1986	Definitions of parameters for simplified automatic measurement of television insertion test signals	
J.64	02-1986		
J.65	02-1978	Standard test signal for conventional loading of a television channel	
J.65	02-1978		
J.66	02-1978	Transmission of one sound programme associated with analogue television signal by means of time division multiplex in the line synchronizing pulse	
J.66	02-1978		
J.67	03-2001	Test signals and measurement techniques for transmission circuits carrying MAC/packet signals	
J.68	02-1982	Hypothetical reference chain for television transmissions over very long distances	
J.68	02-1982		
J.80	09-1993	Transmission of component-coded digital television signals for contribution-quality applications at bit rates near 140 Mbit/s	
J.80	09-1993		
J.81	09-1993	Transmission of component-coded digital television signals for contribution-quality applications at the third hierarchical level of ITU-T Recommendation G.702	
J.81	09-1993		
J.81 (1993) Amendment 1	10-1995	Appendix II to Annex A to Recommendation J.81 – Guidelines for implementation of a complete television codec	
J.81 (1993) Amendment 1	10-1995		
J.81 (1993) Corrigendum 1	10-1996		
J.81 (1993) Corrigendum 1	10-1996		
J.81 (1993) Amendment 2	03-1998	Appendix IV to Annex A – Results of 34 Mbit/s codec interworking tests (February 1996)	

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J.81 (1993) Amendment 2	03-1998	Appendix IV to Annex A – Results of 34 Mbit/s codec interworking tests (February 1996)
J.82	07-1996	Transport of MPEG-2 constant bit rate television signals in B-ISDN
J.82	07-1996	
J.83	04-1997	Digital multi-programme systems for television, sound and data services for cable distribution
J.83	04-1997	
J.83 (1997) Erratum 1	07-1998	
J.84	03-2001	Distribution of digital multi-programme signals for television, sound and data services through SMATV networks
J.85	06-1990	Digital television transmission over long distances – General principles
J.85	06-1990	
J.86	06-1990	Mixed analogue-and-digital transmission of analogue composite television signals over long distances
J.86	06-1990	
J.87	03-2001	Use of hybrid cable television links for the secondary distribution of television into the user's premises
J.88	09-1999	Transmission of enhanced definition television signals over digital links
J.88	09-1999	
J.89	09-1999	Transport Mechanism for component-coded digital television signals using MPEG-2 4:2:2 P@ML including all service elements for contribution and primary distribution
J.89	09-1999	
J.90	05-2000	Electronic programme guides for delivery by digital cable television and similar methods – Reference operating scenario and requirements
J.90	05-2000	
J.91	08-1994	Technical methods for ensuring privacy in long-distance international television transmission
J.91	08-1994	
J.92	04-1997	Recommended operating guidelines for point-to-point transmission of television programmes
J.92	04-1997	
J.93	03-1998	Requirements for conditional access in the secondary distribution of digital television on cable television systems
J.93	03-1998	
J.94	11-1998	Service information for digital broadcasting in cable television systems
J.94	11-1998	

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J.94 (1998) Amendment 1	10-2000	Annex B – Service information delivered out of band for digital cable television systems
J.94 (1998) Amendment 1	10-2000	
J.94 (1998) Amendment 2	03-2001	Revised Annex C – Service information for digital multi-programme System C
J.95	09-1999	Copy protection of intellectual property for content delivered on cable television systems
J.95	09-1999	
J.96	07-2002	Technical method for ensuring privacy in long-distance international MPEG-2 television transmission conforming to ITU-T Recommendation J.89
J.97	07-2002	Metadata on cable networks
J.98	05-2003	Metadata requirements for video-on-demand in cable networks
J.100	06-1990	Tolerances for transmission time differences between the vision and sound components of a television signal
J.100	06-1990	
J.101	06-1990	Measurement methods and test procedures for teletext signals
J.101	06-1990	
J.110	04-1997	Basic principles for a worldwide common family of systems for the provision of interactive television services
J.110	04-1997	
J.111	03-1998	Network independent protocols for interactive systems
J.111	03-1998	
J.112	03-1998	Transmission systems for interactive cable television services
J.112	03-1998	
J.112 Annex A	03-2001	Digital Video Broadcasting: DVB interaction channel for Cable TV (CATV) distribution systems
J.112 Annex B	03-2004	Data-over-cable service interface specifications: Radio-frequency interface specification
J.112 Annex C	02-2002	Data-over-cable service interface specifications: Radio-frequency interface specification using QAM technique
J.113	03-1998	Digital video broadcasting interaction channel through the PSTN/ISDN
J.113	03-1998	
J.114	09-1999	Interaction channel using digital enhanced cordless telecommunications
J.114	09-1999	
J.115	09-1999	Interaction channel using the global system for mobile communications
J.115	09-1999	

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J.116	05-2000	Interaction channel for local multipoint distribution systems	
J.116	05-2000		
J.117	09-1999	Home digital network interface specification	
J.117	09-1999		
J.118	05-2000	Access systems for interactive services on SMATV/MATV networks	
J.118	05-2000		
J.120	05-2000	Distribution of sound and television programs over the IP network	Available only in MS Word.
J.121	02-2002	Quality control protocol for webcasting	
J.122	12-2002	Second-generation transmission systems for interactive cable television services – IP cable modems	
J.122	12-2002		
J.123	07-2002	Multiplexing format for webcasting on the TCP/IP network	
J.124	03-2004	Multiplexing format for multimedia webcasting over TCP/IP networks	
J.125	04-2004	Link privacy for cable modem implementations	
J.126	04-2004	Embedded Cable Modem device specification	
J.126	04-2004		
J.127	06-2004	Transmission protocol for multimedia webcasting over TCP/IP networks	
J.128	11-2005	Set-top Gateway specification for transmission systems for interactive cable television services	Pre-published.
J.131	03-1998	Transport of MPEG-2 signals in PDH networks	
J.131	03-1998		
J.132	03-1998	Transport of MPEG-2 signals in SDH networks	
J.132	03-1998		
J.133	07-2002	Measurement of MPEG-2 transport streams in networks	
J.140	03-1998	Subjective picture quality assessment for digital cable television systems	
J.140	03-1998		
J.141	09-1999	Performance indicators for data services delivered over digital cable television systems	
J.141	09-1999		
J.142	05-2000	Methods for the measurement of parameters in the transmission of digital cable television signals	
J.142	05-2000		
J.143	05-2000	User requirements for objective perceptual video quality measurements in digital cable television	

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J.143	05-2000	User requirements for objective perceptual video quality measurements in digital cable television	
J.144	03-2004	Objective perceptual video quality measurement techniques for digital cable television in the presence of a full reference	Pre-published.
J.145	03-2001	Measurement and control of the quality of service for sound transmission over contribution and distribution networks	
J.146	07-2002	Loop latency issues in contribution circuits for conversational TV programmes	
J.147	07-2002	Objective picture quality measurement method by use of in-service test signals	
J.148	05-2003	Requirements for an objective perceptual multimedia quality model	
J.149	03-2004	Method for specifying accuracy and cross-calibration of Video Quality Metrics (VQM)	Pre-published.
J.150	03-1998	Operational functionalities for the delivery of digital multiprogramme television, sound and data services through multichannel, multipoint distribution systems (MMDS)	
J.150	03-1998		
J.150 (1998) Amendment 1	09-1999	Additions to Recommendation J.150 to also encompass local multipoint distribution systems (LMDS)	
J.150 (1998) Amendment 1	09-1999		
J.150 (1998) Amendment 2	03-2001		
J.151	10-2000	RF remodulator interface for digital television	
J.160	11-2005	Architectural framework for the delivery of time-critical services over cable television networks using cable modems	Pre-published.
J.161	03-2001	Audio codec requirements for the provision of bidirectional audio service over cable television networks using cable modems	
J.162	11-2005	Network call signalling protocol for the delivery of time-critical services over cable television networks using cable modems	Pre-published.
J.163	11-2005	Dynamic quality of service for the provision of real-time services over cable television networks using cable modems	Pre-published.
J.164	11-2005	Event message requirements for the support of real-time services over cable television networks using cable modems	Pre-published.
J.165	05-2003	IPCablecom Internet signalling transport protocol (ISTP)	
J.166	11-2005	IPCablecom Management Information Base (MIB) framework	Pre-published.
J.167	11-2005	Media terminal adapter (MTA) device provisioning requirements for the delivery of real time services over cable television networks using cable modems	Pre-published.
J.168	03-2001	IPCablecom Media Terminal Adapter (MTA) MIB requirements	
J.169	03-2001	IPCablecom network call signalling (NCS) MIB requirements	
J.170	11-2005	IPCablecom security specification	Pre-published.
J.171.0	11-2005	IPCablecom trunking gateway control protocol (TGCP): Profiles overview	Pre-published.

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J.171.1	11-2005	IPCablecom trunking gateway control protocol (TGCP): Profile 1	Pre-published.
J.171.2	11-2005	IPCablecom trunking gateway control protocol (TGCP): Profile 2	Pre-published.
J.172	11-2005	IPCablecom management event mechanism	Pre-published.
J.173	11-2005	IPCablecom embedded MTA primary line support	Pre-published.
J.174	02-2002	IPCablecom interdomain quality of service	
J.175	11-2005	Audio server protocol	Pre-published.
J.176	07-2002	IPCablecom management event mechanism MIB	
J.177	11-2005	IPCablecom CMS subscriber provisioning specification	Pre-published.
J.178	11-2005	IPCablecom CMS to CMS signalling	Pre-published.
J.179	11-2005	IPCablecom support for multimedia	Pre-published.
J.180	05-2000	User requirements for statistical multiplexing of several programmes on a transmission channel	
J.180	05-2000		
J.181	06-2004	Digital program insertion cueing message for cable television systems	
J.182	03-2001	Parameter sets for analogue interface specifications for the interconnection of set-top boxes and presentation devices in the home	
J.183	03-2001	Time-division multiplexing of multiple MPEG-2 transport streams over cable television systems	
J.184	03-2001	Digital broadband delivery system: Out-of-band transport	
J.185	02-2002	Transmission equipment for transferring multi-channel television signals over optical access networks by FM conversion	
J.186	02-2002	Transmission equipment for multi-channel television signals over optical access networks by sub-carrier multiplexing (SCM)	
J.187	07-2002	Transport mechanism for component-coded digital high-definition television signals using MPEG-2 video coding including all service elements for contribution and primary distribution	
J.187 (2002) Corrigendum 1	04-2003		
J.188	07-2002	A framework for an efficient parallel video transmission system including codecs with functions of failure detection and picture quality evaluation	
J.189	07-2002	Seamless splicing for MPEG-2 bit streams	
J.189 (2002) Corrigendum 1	04-2003		
J.190	07-2002	Architecture of MediaHomeNet that supports cable-based services	
J.191	03-2004	IP feature package to enhance cable modems	
J.192	11-2005	A residential gateway to support the delivery of cable data services	Pre-published.
J.193	06-2004	Requirements for the next generation of set-top-boxes	

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J.197	11-2005	High level requirements for a digital rights management bridge to a Home Network	Pre-published.
J.200	03-2001	Worldwide common core – Application environment for digital interactive television services	
J.200 (2001) Corrigendum 1	05-2004		
J.201	07-2004	Harmonization of declarative content format for interactive television applications	
J.201 (2004) Amendment 1	03-2005	Additional media types	
J.202	11-2005	Harmonization of procedural content formats for interactive TV applications	Pre-published.
J.240	06-2004	Framework for remote monitoring of transmitted picture signal-to-noise ratio using spread-spectrum and orthogonal transform	
J.241	04-2005	Quality of service ranking and measurement methods for digital video services delivered over broadband IP networks	
J.260	01-2005	Requirements for preferential telecommunications over IPCablecom networks	
J.280	03-2004	Digital Program Insertion: Splicing application program interface	
J.280 (2004) Amendment 1	12-2005		Pre-published.
J.281	03-2005	Requirements for multichannel video signal transmission over IP-based fibre network	
J.600	06-2004	Transport of Large Screen Digital Imagery (LSDI) applications that employ MPEG-2 encoded HDTV signals	
J.601	11-2005	Transport of LSDI applications for its expanded hierarchy	Pre-published.
J.Sup1	11-1998	Example of linking options between annexes of ITU-T Recommendation J.112 and annexes of ITU-T Recommendation J.83	
J.Sup1	11-1998		
J.Sup2	11-1998	Guidelines for the implementation of annex A of Recommendation J.112, "Transmission systems for interactive cable television services" – Example of digital video broadcasting (DVB) interaction channel for cable television distribution	
J.Sup2	11-1998		
J.Sup3	11-1998	Guidelines for the implementation of Recommendation J.111 "Network independent protocols" – Example of digital video broadcasting (DVB) systems for interactive services	
J.Sup3	11-1998		
J.Sup5	09-1999	Guidelines on the use of some ITU-T Recommendations in the J series	
J.Sup5	09-1999		

Recommendation count: 231

Content of ITU-T Recommendations on DVD March 2006 Edition

Series K : Protection against interference

<i>Number</i>	<i>Approval Date</i>	<i>Recommendation Title</i>	<i>Status</i>
		Protection against interference	
K.5	11-1988	Joint use of poles for electricity distribution and for telecommunications	
K.5	11-1988		
K.6	11-1988	Precautions at crossings	
K.6	11-1988		
K.7	11-1988	Protection against acoustic shock	
K.7	11-1988		
K.8	11-1988	Separation in the soil between telecommunication cables and earthing system of power facilities	
K.8	11-1988		
K.9	11-1988	Protection of telecommunication staff and plant against a large earth potential due to a neighbouring electric traction line	
K.9	11-1988		
K.10	10-1996	Low frequency interference due to unbalance about earth of telecommunication equipment	
K.10	10-1996		
K.11	10-1993	Principles of protection against overvoltages and overcurrents	
K.11	10-1993		
K.12	02-2006	Characteristics of gas discharge tubes for the protection of telecommunications installations	Not available, contact sales@itu.int.
K.13	11-1988	Induced voltages in cables with plastic-insulated conductors	
K.13	11-1988		
K.14	11-1988	Provision of a metallic screen in plastic-sheathed cables	
K.14	11-1988		
K.18	11-1988	Calculation of voltage induced into telecommunication lines from radio station broadcasts and methods of reducing interference	
K.18	11-1988		
K.19	11-1988	Joint use of trenches and tunnels for telecommunication and power cables	
K.19	11-1988		

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K.20	07-2003	Resistibility of telecommunication equipment installed in a telecommunications centre to overvoltages and overcurrents
K.20 (2003) Erratum 1	01-2004	Correction to table 7/K.20
K.20 Amendment 1	11-2004	New Appendix I – Floating transverse power induction and earth potential rise test for ports connected to external symmetric pair cables
K.21	07-2003	Resistibility of telecommunication equipment installed in customer premises to overvoltages and overcurrents
K.21 (2003) Erratum 1	01-2004	Correction to table 7/K.21
K.23	11-1988	Types of induced noise and description of noise voltage parameters for ISDN basic user networks
K.23	11-1988	
K.24	11-1988	Method for measuring radio-frequency induced noise on telecommunications pairs
K.24	11-1988	
K.25	02-2000	Protection of optical fibre cables
K.25	02-2000	
K.26	11-1988	Protection of telecommunication lines against harmful effects from electric power and electrified railway lines
K.26	11-1988	
K.27	05-1996	Bonding configurations and earthing inside a telecommunication building
K.27	05-1996	
K.28	03-1993	Characteristics of semi-conductor arrester assemblies for the protection of telecommunications installations
K.28	03-1993	
K.29	01-1992	Coordinated protection schemes for telecommunication cables below ground
K.29	01-1992	
K.30	12-2004	Self-restoring overcurrent protectors
K.31	03-1993	Bonding configurations and earthing of telecommunication installations inside a subscriber's building
K.31	03-1993	
K.33	10-1996	Limits for people safety related to coupling into telecommunications system from a.c. electric power and a.c. electrified railway installations in fault conditions
K.33	10-1996	
K.34	07-2003	Classification of electromagnetic environmental conditions for telecommunication equipment – Basic EMC Recommendation
K.35	05-1996	Bonding configurations and earthing at remote electronic sites

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K.35	05-1996	Bonding configurations and earthing at remote electronic sites	
K.36	05-1996	Selection of protective devices	
K.36	05-1996		
K.37	02-1999	Low and high frequency EMC mitigation techniques for telecommunication installations and systems – Basic EMC Recommendation	
K.37	02-1999		
K.38	10-1996	Radiated emission test procedure for physically large systems	
K.38	10-1996		
K.39	10-1996	Risk assessment of damages to telecommunication sites due to lightning discharges	
K.39	10-1996		
K.40	10-1996	Protection against LEMP in telecommunications centres	
K.40	10-1996		
K.42	05-1998	Preparation of emission and immunity requirements for telecommunication equipment – General principles	
K.42	05-1998		
K.43	07-2003	Immunity requirements for telecommunication equipment	
K.43 (2003) Amendment 1	11-2004		
K.44	07-2003	Resistibility tests for telecommunication equipment exposed to overvoltages and overcurrents – Basic Recommendation	
K.45	07-2003	Resistibility of telecommunication equipment installed in the access and trunk networks to overvoltages and overcurrents	
K.46	07-2003	Protection of telecommunication lines using metallic symmetric conductors against lightning-induced surges	
K.47	12-2000	Protection of telecommunication lines using metallic conductors against direct lightning discharges	
K.47	12-2000		
K.48	07-2003	EMC requirements for each telecommunication equipment – Product family Recommendation	
K.49	12-2005	Test requirements and performance criteria for voice terminals subject to disturbance from digital mobile telecommunications systems	Pre-published.
K.50	02-2000	Safe limits of operating voltages and currents for telecommunication systems powered over the network	
K.50	02-2000		
K.51	02-2000	Safety criteria for telecommunication equipment	
K.51	02-2000		

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K.52	12-2004	Guidance on complying with limits for human exposure to electromagnetic fields	
K.53	02-2000	Values of induced voltages on telecommunication installations to establish telecom and a.c. power and railway operators responsibilities	
K.53	02-2000		
K.54	12-2004	Conducted immunity test method and level at fundamental power frequencies	
K.55	08-2002	Overvoltage and overcurrent requirements for insulation displacement connectors (IDC) terminations	
K.56	07-2003	Protection of radio base stations against lightning discharges	
K.57	09-2003	Protection measures for radio base stations sited on power line towers	
K.58	07-2003	EMC, resistibility and safety requirements and procedures for co-located telecommunication installations	
K.59	07-2003	EMC, resistibility and safety requirements and procedures for connection to unbundled cables	
K.60	07-2003	Emission limits and test methods for telecommunication networks	
K.61	09-2003	Guidance to measurement and numerical prediction of electromagnetic fields for compliance with human exposure limits for telecommunication installations	
K.62	02-2004	System level radiated emissions compliance using mathematical modelling	
K.63	02-2004	Maintaining the suitability of production telecommunications equipment to its intended electromagnetic environment	
K.64	02-2004	Safe working practices for outside equipment installed in particular environments	
K.65	12-2004	Overvoltage and overcurrent requirements for termination modules with contacts for test ports or SPDs	
K.66	12-2004	Protection of customer premises from overvoltages	
K.67	02-2006	Expected surges on telecommunications and signalling networks due to lightning	Not available, contact sales@itu.int.
K.68	02-2006	Management of electromagnetic interference on telecommunication systems due to power systems	Not available, contact sales@itu.int.

Recommendation count: 94

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Series L : Construction, installation and protection of cables and other elements of outside plant

<i>Number</i>	<i>Approval Date</i>	<i>Recommendation Title</i>	<i>Status</i>
		Construction, installation and protection of cables and other elements of outside plant	
L.1	11-1988	Construction, installation and protection of telecommunication cables in public networks	
L.1	11-1988		
L.2	11-1988	Impregnation of wooden poles	
L.2	11-1988		
L.3	11-1988	Armouring of cables	
L.3	11-1988		
L.4	11-1988	Aluminium cable sheaths	
L.4	11-1988		
L.5	11-1988	Cable sheaths made of metals other than lead or aluminium	
L.5	11-1988		
L.6	11-1988	Methods of keeping cables under gas pressure	
L.6	11-1988		
L.7	11-1988	Application of joint cathodic protection	
L.7	11-1988		
L.8	11-1988	Corrosion caused by alternating current	
L.8	11-1988		
L.9	11-1988	Methods of terminating metallic cable conductors	
L.9	11-1988		
L.10	12-2002	Optical fibre cables for duct and tunnel application	
L.11	11-1988	Joint use of tunnels by pipelines and telecommunication cables, and the standardization of underground duct plans	
L.11	11-1988		
L.12	05-2000	Optical fibre joints	
L.12	05-2000		
L.13	04-2003	Performance requirements for passive optical nodes: Sealed closures for outdoor environments	
L.14	07-1992	Measurement method to determine the tensile performance of optical fibre cables under load	

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L.14	07-1992	Measurement method to determine the tensile performance of optical fibre cables under load
L.15	03-1993	Optical local distribution networks – Factors to be considered for their construction
L.15	03-1993	
L.16	03-1993	Conductive plastic material (CPM) as protective covering for metal cable sheaths
L.16	03-1993	
L.17	06-1995	Implementation of connecting customers into the public switched telephone network (PSTN) via optical fibres
L.17	06-1995	
L.17 Appendix I	02-1997	Examples of possible applications
L.17 Appendix I	02-1997	
L.18	10-1996	Sheath closures for terrestrial copper telecommunication cables
L.18	10-1996	
L.19	11-2003	Multi-pair copper network cable supporting shared multiple services such as POTS, ISDN and xDSL
L.20	10-1996	Creation of a fire security code for telecommunication facilities
L.20	10-1996	
L.21	10-1996	Fire detection and alarm systems, detector and sounder devices
L.21	10-1996	
L.22	10-1996	Fire protection
L.22	10-1996	
L.23	10-1996	Fire extinction – Classification and location of fire extinguishing installations and equipment on premises
L.23	10-1996	
L.24	10-1996	Classification of outside plant waste
L.24	10-1996	
L.25	10-1996	Optical fibre cable network maintenance
L.25	10-1996	
L.26	12-2002	Optical fibre cables for aerial application
L.27	10-1996	Method for estimating the concentration of hydrogen in optical fibre cables
L.27	10-1996	
L.28	10-2002	External additional protection for marinized terrestrial cables

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L.29	01-2002	As-laid report and maintenance/repair log for maritized terrestrial cable installation
L.30	10-1996	Markers on maritized terrestrial cables
L.30	10-1996	
L.31	10-1996	Optical fibre attenuators
L.31	10-1996	
L.32	10-1998	Protection devices for through-cable penetrations of fire-sector partitions
L.32	10-1998	
L.33	10-1998	Periodic control of fire extinction devices in telecommunication buildings
L.33	10-1998	
L.34	10-1998	Installation of Optical Fibre Ground Wire (OPGW) cable
L.34	10-1998	
L.35	10-1998	Installation of optical fibre cables in the access network
L.35	10-1998	
L.36	10-1998	Single mode fibre optic connectors
L.36	10-1998	
L.37	10-1998	Fibre optic (non-wavelength selective) branching devices
L.37	10-1998	
L.38	09-1999	Use of trenchless techniques for the construction of underground infrastructures for telecommunication cable installation
L.38	09-1999	
L.39	05-2000	Investigation of the soil before using trenchless techniques
L.39	05-2000	
L.40	10-2000	Optical fibre outside plant maintenance support, monitoring and testing system
L.40	10-2000	
L.41	05-2000	Maintenance wavelength on fibres carrying signals
L.41	05-2000	
L.42	05-2003	Extending optical fibre solutions into the access network
L.43	12-2002	Optical fibre cables for buried application
L.44	10-2000	Electric power supply for equipment installed as outside plant
L.44	10-2000	

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L.45	10-2000	Minimizing the effect on the environment from the outside plant in telecommunication networks	
L.45	10-2000		
L.46	10-2000	Protection of telecommunication cables and plant from biological attack	
L.46	10-2000		
L.47	10-2000	Access facilities using hybrid fibre/copper networks	
L.47	10-2000		
L.48	03-2003	Mini-trench installation technique	
L.49	03-2003	Micro-trench installation technique	
L.50	11-2003	Requirements for passive optical nodes: Optical distribution frames for central office environments	
L.51	04-2003	Passive node elements for fibre optic networks – General principles and definitions for characterization and performance evaluation	
L.52	05-2003	Deployment of Passive Optical Networks (PON)	
L.53	05-2003	Optical fibre maintenance criteria for access networks	
L.54	02-2004	Splice closure for maritized terrestrial cables (MTC)	
L.55	11-2003	Digital database for marine cables and pipelines	
L.56	05-2003	Installation of optical fibre cables along railways	
L.57	05-2003	Air-assisted installation of optical fibre cables	
L.58	03-2004	Optical fibre cables: Special needs for access network	
L.59	09-2004	Optical fibre cables for indoor application	Pre-published.
L.60	09-2004	Construction of optical/metallic hybrid cables	
L.61	07-2004	Optical fibre cable installation by floating technique	
L.62	09-2004	Practical aspects of unbundling services by multiple operators in copper access networks	
L.63	10-2004	Safety procedures for outdoor installations	Pre-published.

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Series M : Telecommunication management, including TMN and network maintenance

<i>Number</i>	<i>Approval Date</i>	<i>Recommendation Title</i>	<i>Status</i>
		Telecommunication management, including TMN and network maintenance	
M.10	10-1992	Scope and application of Recommendations for maintenance of telecommunication networks and services	
M.10	10-1992		
M.15	11-1988	Maintenance considerations for new systems	
M.15	11-1988		
M.20	10-1992	Maintenance philosophy for telecommunication networks	
M.20	10-1992		
M.21	10-1992	Maintenance philosophy for telecommunication services	
M.21	10-1992		
M.32	11-1988	Principles for using alarm information for maintenance of international transmission systems and equipment	
M.32	11-1988		
M.34	11-1988	Performance monitoring on international transmission systems and equipment	
M.34	11-1988		
M.35	11-1988	Principles concerning line-up and maintenance limits	
M.35	11-1988		
M.50	11-1988	Use of telecommunication terms for maintenance	Not available, contact sales@itu.int.
M.60	03-1993	Maintenance terminology and definitions	
M.60	03-1993		
M.70	11-1988	Guiding principles on the general maintenance organization for telephone-type international circuits	
M.70	11-1988		
M.75	10-1992	Technical service	
M.75	10-1992		
M.80	11-1988	Control stations	
M.80	11-1988		
M.85	10-1992	Fault report points	

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M.85	10-1992	Fault report points
M.90	11-1988	Sub-control stations
M.90	11-1988	
M.100	11-1988	Service circuits
M.100	11-1988	
M.110	11-1988	Circuit testing
M.110	11-1988	
M.120	11-1988	Access points for maintenance
M.120	11-1988	
M.125	11-1988	Digital loopback mechanisms
M.125	11-1988	
M.160	11-1988	Stability of transmission
M.160	11-1988	
M.320	11-1988	Numbering of the channels in a group
M.320	11-1988	
M.330	11-1988	Numbering of groups within a supergroup
M.330	11-1988	
M.340	11-1988	Numbering of supergroups within a mastergroup
M.340	11-1988	
M.350	11-1988	Numbering of mastergroups within a supermastergroup
M.350	11-1988	
M.380	11-1988	Numbering in coaxial systems
M.380	11-1988	
M.390	11-1988	Numbering in systems on symmetric pair cable
M.390	11-1988	
M.400	11-1988	Numbering in radio-relay links or open-wire line systems
M.400	11-1988	
M.410	11-1988	Numbering of digital blocks in transmission systems
M.410	11-1988	
M.450	11-1988	Bringing a new international transmission system into service
M.450	11-1988	

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M.460	11-1988	Bringing international group, supergroup, etc., links into service
M.460	11-1988	
M.470	11-1988	Setting up and lining up analogue channels for international telecommunication services
M.470	11-1988	
M.475	11-1988	Setting up and lining up mixed analogue/digital channels for international telecommunication services
M.475	11-1988	
M.495	11-1988	Transmission restoration and transmission route diversity: Terminology and general principles
M.495	11-1988	
M.496	11-1988	Functional organization for automatic transmission restoration
M.496	11-1988	
M.500	11-1988	Routine maintenance measurements to be made on regulated line sections
M.500	11-1988	
M.510	11-1988	Readjustment to the nominal value of a regulated line section (on a symmetric pair line, a coaxial line or a radio-relay link)
M.510	11-1988	
M.520	11-1988	Routine maintenance on international group, supergroup, etc., links
M.520	11-1988	
M.525	11-1988	Automatic maintenance procedures for international group, supergroup, etc., links
M.525	11-1988	
M.530	11-1988	Readjustment to the nominal value of an international group, supergroup, etc., link
M.530	11-1988	
M.535	11-1988	Special maintenance procedures for multiple destination, unidirectional (MU) group and supergroup links
M.535	11-1988	
M.540	11-1988	Routine maintenance of carrier and pilot generating equipment
M.540	11-1988	
M.556	11-1988	Setting up and initial testing of digital channels on an international digital path or block
M.556	11-1988	
M.560	11-1988	International telephone circuits – Principles, definitions and relative transmission levels

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M.560	11-1988	International telephone circuits – Principles, definitions and relative transmission levels
M.562	11-1988	Types of circuit and circuit section
M.562	11-1988	
M.565	11-1988	Access points for international telephone circuits
M.565	11-1988	
M.570	11-1988	Constitution of the circuit; preliminary exchange of information
M.570	11-1988	
M.580	11-1988	Setting up and lining up an international circuit for public telephony
M.580	11-1988	
M.585	11-1988	Bringing an international digital circuit into service
M.585	11-1988	
M.590	11-1988	Setting up and lining up a circuit fitted with a compandor
M.590	11-1988	
M.600	11-1988	Organization of routine maintenance measurements on circuits
M.600	11-1988	
M.605	11-1988	Routine maintenance schedule for international public telephony circuits
M.605	11-1988	
M.610	11-1988	Periodicity of maintenance measurements on circuits
M.610	11-1988	
M.620	11-1988	Methods for carrying out routine measurements on circuits
M.620	11-1988	
M.630	11-1988	Maintenance of circuits using control chart methods
M.630	11-1988	
M.650	11-1988	Routine line measurements to be made on the line repeaters of audio-frequency sections or circuits
M.650	11-1988	
M.660	11-1988	Periodical in-station tests of echo suppressors complying with Recommendations G.161 and G.164
M.660	11-1988	
M.665	11-1988	Testing of echo cancellers
M.665	11-1988	
M.670	11-1988	Maintenance of a circuit fitted with a compandor

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M.670	11-1988	Maintenance of a circuit fitted with a compandor
M.675	11-1988	Lining up and maintaining international demand assignment circuits (SPADE)
M.675	11-1988	
M.710	11-1988	General maintenance organization for the international automatic and semi-automatic telephone service
M.710	11-1988	
M.715	11-1988	Fault report point (circuit)
M.715	11-1988	
M.716	11-1988	Fault report point (network)
M.716	11-1988	
M.717	11-1988	Testing point (transmission)
M.717	11-1988	
M.718	11-1988	Testing point (line signalling)
M.718	11-1988	
M.719	11-1988	Testing point (switching and interregister signalling)
M.719	11-1988	
M.720	11-1988	Network analysis point
M.720	11-1988	
M.721	11-1988	System availability information point
M.721	11-1988	
M.722	11-1980	Network management point
M.722	11-1980	
M.723	11-1988	Circuit control station
M.723	11-1988	
M.724	11-1988	Circuit sub-control station
M.724	11-1988	
M.725	11-1988	Restoration control point
M.725	11-1988	
M.726	11-1988	Maintenance organization for the wholly digital international automatic and semi-automatic telephone service
M.726	11-1988	

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M.729	11-1988	Organization of the maintenance of international public switched telephone circuits used for data transmission
M.729	11-1988	
M.730	11-1988	Maintenance methods
M.730	11-1988	
M.731	11-1988	Subjective testing
M.731	11-1988	
M.732	11-1988	Signalling and switching routine maintenance tests and measurements
M.732	11-1988	
M.733	11-1988	Transmission routine maintenance measurements on automatic and semi-automatic telephone circuits
M.733	11-1988	
M.734	11-1988	Exchange of information on incoming test facilities at international switching centres
M.734	11-1988	
M.760	11-1988	Transfer link for common channel Signalling System No. 6
M.760	11-1988	
M.762	11-1988	Maintenance of common channel Signalling System No. 6
M.762	11-1988	
M.800	11-1988	Use of circuits for voice-frequency telegraphy
M.800	11-1988	
M.810	11-1988	Setting up and lining up an international voice-frequency telegraph link for public telegraph circuits (for 50, 100 and 200 baud modulation rates)
M.810	11-1988	
M.820	11-1988	Periodicity of routine tests on international voice-frequency telegraph links
M.820	11-1988	
M.830	11-1988	Routine measurements to be made on international voice-frequency telegraph links
M.830	11-1988	
M.850	11-1988	International time division multiplex (TDM) telegraph systems
M.850	11-1988	
M.880	11-1988	International phototelegraph transmission
M.880	11-1988	
M.900	11-1988	Use of leased group and supergroup links for wide-spectrum signal transmission (data, facsimile, etc.)

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M.900	11-1988	Use of leased group and supergroup links for wide-spectrum signal transmission (data, facsimile, etc.)
M.910	11-1988	Setting up and lining up an international leased group link for wide-spectrum signal transmission
M.910	11-1988	
M.1010	11-1988	Constitution and nomenclature of international leased circuits
M.1010	11-1988	
M.1012	11-1988	Circuit control station for leased and special circuits
M.1012	11-1988	
M.1013	11-1988	Sub-control station for leased and special circuits
M.1013	11-1988	
M.1014	11-1988	Transmission maintenance point (international line) (TMP-IL)
M.1014	11-1988	
M.1015	11-1988	Types of transmission on leased circuits
M.1015	11-1988	
M.1016	11-1988	Assessment of the service availability performance of international leased circuits
M.1016	11-1988	
M.1020	03-1993	Characteristics of special quality international leased circuits with special bandwidth conditioning
M.1020	03-1993	
M.1025	03-1993	Characteristics of special quality international leased circuits with basic bandwidth conditioning
M.1025	03-1993	
M.1030	11-1988	Characteristics of ordinary quality international leased circuits forming part of private switched telephone networks
M.1030	11-1988	
M.1040	11-1988	Characteristics of ordinary quality international leased circuits
M.1040	11-1988	
M.1045	05-1996	Preliminary exchange of information for the provision of international leased circuits and international data transmission systems
M.1045	05-1996	
M.1050	06-1998	Lining up an international point-to-point leased circuit with analogue presentation to the user
M.1050	06-1998	
M.1055	11-1988	Lining up an international multiterminal leased circuit

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M.1055	11-1988	Lining up an international multiterminal leased circuit	
M.1060	11-1988	Maintenance of international leased circuits	
M.1060	11-1988		
M.1130	10-1992	General definitions and general principles of operation/maintenance procedures to be used in satellite mobile systems	
M.1130	10-1992		
M.1140	10-1992	Maritime mobile telecommunication services via satellite	
M.1140	10-1992		
M.1150	04-1997	Maintenance aspects of maritime/land mobile telecommunication store-and-forward services (packet mode) via satellite	
M.1150	04-1997		
M.1160	04-1997	Maintenance aspects of aeronautical mobile telecommunication service via satellite	
M.1160	04-1997		
M.1170	04-1997	Maintenance aspects of mobile digital telecommunication service via satellite	
M.1170	04-1997		
M.1230	05-1996	Method to improve the management of operations and maintenance processes in the international telephone network	
M.1230	05-1996		
M.1235	11-1988	Use of automatically generated test calls for assessment of network performance	
M.1235	11-1988		
M.1300	10-1997	Maintenance of international data transmission systems operating in the range 2.4 kbit/s to 140 Mbit/s	
M.1300	10-1997		
M.1301	01-2001	General description and operational procedures for international SDH leased circuits	
M.1320	11-1988	Numbering of channels in data transmission systems	
M.1320	11-1988		
M.1340	02-2000	Performance objectives, allocations and limits for international PDH leased circuits and supporting data transmission links and systems	
M.1340	02-2000		
M.1340 (2000) Corrigendum 1	08-2001		Available only in PDF.
M.1350	11-1988	Setting up, lining up and characteristics of international data transmission systems operating in the range 2.4 kbit/s to 14.4 kbit/s	
M.1350	11-1988		

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M.1355	11-1988	Maintenance of international data transmission systems operating in the range 2.4 to 14.4 kbit/s
M.1355	11-1988	
M.1370	06-1998	Bringing-into-service of international data transmission systems
M.1370	06-1998	
M.1375	06-1998	Maintenance of international data transmission systems
M.1380	02-2000	Bringing-into-service of international leased circuits that are supported by international data transmission systems
M.1380	02-2000	
M.1385	02-2000	Maintenance of international leased circuits that are supported by international data transmission systems
M.1385	02-2000	
M.1400	01-2004	Designations for interconnections among operators' networks
M.1400	01-2004	
M.1401	05-2005	Formalization of interconnection designations among operators' telecommunication networks
M.1510	10-1992	Exchange of contact point information for the maintenance of international services and the international network
M.1510	10-1992	
M.1520	10-1992	Standardized information exchange between Administrations
M.1520	10-1992	
M.1530	03-1999	Network maintenance information
M.1530	03-1999	
M.1532	02-2000	Network maintenance service performance agreement (MSPA)
M.1532	02-2000	
M.1535	05-1996	Principles for maintenance information to be exchanged at customer contact point (MICC)
M.1535	05-1996	
M.1537	10-1997	Definition of maintenance information to be exchanged at customer contact point (MICC)
M.1537	10-1997	
M.1539	03-1999	Management of the grade of network maintenance services at the Maintenance Service Customer Contact Point (MSCC)
M.1539	03-1999	
M.1540	10-1994	Exchange of information for planned outages of transmission systems
M.1540	10-1994	

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M.1550	10-1992	Escalation procedure	
M.1550	10-1992		
M.1560	10-1992	Escalation procedure for international leased circuits	
M.1560	10-1992		
M.2100	04-2003	Performance limits for bringing-into-service and maintenance of international multi-operator PDH paths and connections	
M.2101	06-2003	Performance limits for bringing-into-service and maintenance of international multi-operator SDH paths and multiplex sections	
M.2102	02-2000	Maintenance thresholds and procedures for recovery mechanisms (protection and restoration) of international SDH VC trails (paths) and multiplex sections	
M.2102	02-2000		
M.2110	07-2002	Bringing into service international multi-operator paths, sections and transmission systems	
M.2120	07-2002	International multi-operator paths, sections and transmission systems fault detection and localization procedures	
M.2130	02-2000	Operational procedures for the maintenance of the transport network	
M.2130	02-2000		
M.2140	02-2000	Transport network event correlation	
M.2140	02-2000		
M.2201	03-2001	Performance objectives, allocations and limits for bringing-into-service and maintenance of international ATM virtual path and virtual channel connections	
M.2301	07-2002	Performance objectives and procedures for provisioning and maintenance of IP-based networks	
M.2401	12-2003	Error performance limits and procedures for bringing-into-service and maintenance of multi-operator international paths and sections within an optical transport network	
M.3000	02-2000	Overview of TMN Recommendations	
M.3000	02-2000		
M.3010	02-2000	Principles for a telecommunications management network	
M.3010	02-2000		
M.3010 (2000) Amendment 1	12-2003	TMN conformance and TMN compliance	
M.3010 (2000) Amendment 2	11-2005	Additions and corrections	Pre-published.
M.3013	02-2000	Considerations for a telecommunications management network	
M.3013	02-2000		
M.3016.0	05-2005	Security for the management plane: Overview	

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M.3016.1	04-2005	Security for the management plane: Security requirements	
M.3016.1 (2005) Corrigendum 1	11-2005		Pre-published.
M.3016.2	04-2005	Security for the management plane: Security services	
M.3016.3	04-2005	Security for the management plane: Security mechanism	
M.3016.4	04-2005	Security for the management plane: Profile proforma	
M.3017	06-2003	Framework for the integrated management of hybrid circuit/packet networks	
M.3017 (2003) Amendment 1	04-2005	Additional options	
M.3020	02-2000	TMN Interface Specification Methodology	
M.3020	02-2000		
M.3030	08-2002	Telecommunications Markup Language (tML) framework	
M.3031	07-2004	Guidelines for Implementation Conformance Statement proformas for tML schemas	
M.3031 (2004) Corrigendum 1	11-2005		Pre-published.
M.3050.0	07-2004	Enhanced Telecom Operations Map (eTOM) – Introduction	
M.3050.1	06-2004	Enhanced Telecom Operations Map (eTOM) – The business process framework	
M.3050.2	06-2004	Enhanced Telecom Operations Map (eTOM) – Process decompositions and descriptions	
M.3050.3	06-2004	Enhanced Telecom Operations Map (eTOM) – Representative process flows	
M.3050.4	06-2004	Enhanced Telecom Operations Map (eTOM) – B2B integration: Using B2B inter-enterprise integration with the eTOM	
M.3050 Supplement 1	05-2004	Enhanced Telecom Operations Map (eTOM) – ITIL application note	
M.3050 Supplement 2	05-2004	Enhanced Telecom Operations Map (eTOM) – Public B2B Business Operations Map (BOM)	
M.3050 Supplement 3	05-2004	Enhanced Telecom Operations Map (eTOM) – eTOM to M.3400 mapping	
M.3100	04-2005	Generic network information model	
M.3100	04-2005		
M.3100 (2005) Cor.1	11-2005		Not available, contact < a href='mailto:sales@itu.int'>sales@itu.int .
M.3101	07-1995	Managed object conformance statements for the generic network information model	
M.3101	07-1995		

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		TMN management services for dedicated and reconfigurable circuits network	
M.3108.1	03-1999	Information model for management of leased circuit and reconfigurable services	
M.3108.1	03-1999		
M.3108.1 (1999) Corrigendum 1	01-2001		
M.3108.2	02-2000	Information model for connection management of preprovisioned service link connections to form a reconfigurable leased service	
M.3108.2	02-2000		
M.3108.3	01-2001	Information model for management of virtual private network service	
M.3120	10-2001	CORBA generic network and network element level information model	Available only in MS Word.
M.3120 (2001) Amendment 1	05-2002	Protection switching	
M.3120 (2001) Amendment 2	03-2003		
M.3180	10-1992	Catalogue of TMN management information	
M.3180	10-1992		
M.3200	04-1997	TMN management services and telecommunications managed areas: overview	
M.3200	04-1997		
M.3207.1	05-1996	TMN management service: Maintenance aspects of B-ISDN management	
M.3207.1	05-1996		
		TMN management services for dedicated and reconfigurable circuits network	
M.3208.1	10-1997	Leased circuit services	
M.3208.1	10-1997		
M.3208.1 (1997) Corrigendum 1	02-2000		
M.3208.1 (1997) Corrigendum 1	02-2000		
M.3208.2	03-1999	Connection management of pre-provisioned service link connections to form a leased circuit service	
M.3208.2	03-1999		
M.3208.2 (1999) Corrigendum 1	01-2001		
M.3208.3	02-2000	Virtual private network service	
M.3208.3	02-2000		

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M.3210.1	01-2001	TMN management services for IMT-2000 security management
M.3211.1	05-1996	TMN management service: Fault and performance management of the ISDN access
M.3211.1	05-1996	
M.3300	06-1998	TMN F interface requirements
M.3300	06-1998	
M.3320	04-1997	Management requirements framework for the TMN X-Interface
M.3320	04-1997	
M.3341	12-2003	Requirements for QoS/SLA management over the TMN X-interface for IP-based services
M.3350	05-2004	TMN service management requirements for information interchange across the TMN X-interface to support provisioning of Emergency Telecommunication Service (ETS)
M.3400	02-2000	TMN management functions
M.3400	02-2000	
M.3600	10-1992	Principles for the management of ISDNs
M.3600	10-1992	
M.3602	10-1992	Application of maintenance principles to ISDN subscriber installations
M.3602	10-1992	
M.3603	10-1992	Application of maintenance principles to ISDN basic rate access
M.3603	10-1992	
M.3604	10-1992	Application of maintenance principles to ISDN primary rate access
M.3604	10-1992	
M.3605	10-1992	Application of maintenance principles to static multiplexed ISDN basic rate access
M.3605	10-1992	
M.3610	05-1996	Principles for applying the TMN concept to the management of B-ISDN
M.3610	05-1996	
M.3611	04-1997	Test management of the B-ISDN ATM layer using the TMN
M.3611	04-1997	
M.3620	10-1992	Principles for the use of ISDN test calls, systems and responders
M.3620	10-1992	
M.3621	07-1995	Integrated management of the ISDN customer access
M.3621	07-1995	

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M.3640	10-1992	Management of the D-channel – Data link layer and network layer
M.3640	10-1992	
M.3641	10-1994	Management information model for the management of the data link and network layer of the ISDN D-channel
M.3641	10-1994	
M.3650	04-1997	Network performance measurements of ISDN calls
M.3650	04-1997	
M.3660	10-1992	ISDN interface management services
M.3660	10-1992	
M.4010	10-1992	Inter-Administration agreements on common channel Signalling System No. 6
M.4010	10-1992	
M.4030	10-1992	Transmission characteristics for setting up and lining up a transfer link for common channel Signalling System N° 6 (analogue version)
M.4030	10-1992	
M.4100	05-1996	Maintenance of common channel Signalling System No. 7
M.4100	05-1996	
M.4110	05-1996	Inter-Administration agreements on common channel Signalling System No. 7
M.4110	05-1996	

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Series N : Maintenance: international sound programme and television transmission circuits

<i>Number</i>	<i>Approval Date</i>	<i>Recommendation Title</i>	<i>Status</i>
		Maintenance: international sound programme and television transmission circuits	
N.1	03-1993	Definitions for application to international sound-programme and television-sound transmission	
N.1	03-1993		
N.2	11-1988	Different types of sound-programme circuit	
N.2	11-1988		
N.3	11-1988	Control circuits	
N.3	11-1988		
N.4	11-1988	Definition and duration of the line-up period and the preparatory period	
N.4	11-1988		
N.5	11-1988	Sound-programme control, sub-control and send reference stations	
N.5	11-1988		
N.10	03-1993	Limits for the lining-up of international sound-programme links and connections	
N.10	03-1993		
N.11	11-1988	Essential transmission performance objectives for international sound-programme centres (ISPC)	
N.11	11-1988		
N.12	11-1988	Measurements to be made during the line-up period that precedes a sound-programme transmission	
N.12	11-1988		
N.13	11-1988	Measurements to be made by the broadcasting organizations during the preparatory period	
N.13	11-1988		
N.15	11-1988	Maximum permissible power during an international sound-programme transmission	
N.15	11-1988		
N.16	11-1988	Identification signal	
N.16	11-1988		
N.17	11-1988	Monitoring the transmission	
N.17	11-1988		
N.18	11-1988	Monitoring for charging purposes, releasing	

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N.18	11-1988	Monitoring for charging purposes, releasing
N.21	11-1988	Limits and procedures for the lining-up of a sound-programme circuit
N.21	11-1988	
N.23	11-1988	Maintenance measurements to be made on international sound-programme circuits
N.23	11-1988	
N.51	11-1988	Definitions for application to international television transmissions
N.51	11-1988	
N.52	11-1988	Multiple destination television transmissions and coordination centres
N.52	11-1988	
N.54	11-1988	Definition and duration of the line-up period and the preparatory period
N.54	11-1988	
N.55	03-1993	Organization, responsibilities and functions of control and sub-control international television centres and control and sub-control stations for international television connections, links, circuits and circuit sections
N.55	03-1993	
N.60	03-1993	Nominal amplitude of video signals at video interconnection points
N.60	03-1993	
N.61	11-1988	Measurements to be made before the line-up period that precedes a television transmission
N.61	11-1988	
N.62	03-1993	Tests to be made during the line-up period that precedes a television transmission
N.62	03-1993	
N.63	11-1988	Test signals to be used by the broadcasting organizations during the preparatory period
N.63	11-1988	
N.64	11-1988	Quality and impairment assessment
N.64	11-1988	
N.67	03-1993	Monitoring television transmissions – Use of the field blanking interval
N.67	03-1993	
N.73	11-1988	Maintenance of permanent international television circuits, links and connections
N.73	11-1988	

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Series O : Specifications of measuring equipment

<i>Number</i>	<i>Approval Date</i>	<i>Recommendation Title</i>	<i>Status</i>
		Specifications of measuring equipment	
O.1	02-2000	Scope and application of measurement equipment specifications covered in the O-series Recommendations	
O.1	02-2000		
O.3	10-1992	Climatic conditions and relevant tests for measuring equipment	
O.3	10-1992		
O.6	11-1988	1020 Hz reference test frequency	
O.6	11-1988		
O.9	03-1999	Measuring arrangements to assess the degree of unbalance about earth	
O.9	03-1999		
O.11	10-1992	Maintenance access lines	
O.11	10-1992		
O.22	10-1992	CCITT automatic transmission measuring and signalling testing equipment ATME No. 2	
O.22	10-1992		
O.27	11-1988	In-station echo canceller test equipment	
O.27	11-1988		
O.33	07-1995	Automatic equipment for rapidly measuring stereophonic pairs and monophonic sound-programme circuits, links and connections	
O.33	07-1995		
O.41	10-1994	Psophometer for use on telephone-type circuits	
O.41	10-1994		
O.42	11-1988	Equipment to measure non-linear distortion using the 4-tone intermodulation method	
O.42	11-1988		
O.61	11-1988	Simple equipment to measure interruptions on telephone-type circuits	
O.61	11-1988		
O.62	11-1988	Sophisticated equipment to measure interruptions on telephone-type circuits	
O.62	11-1988		

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O.71	11-1988	Impulsive noise measuring equipment for telephone-type circuits
O.71	11-1988	
O.81	11-1988	Group-delay measuring equipment for telephone-type circuits
O.81	11-1988	
O.81 Appendix I	06-1998	A measuring signal (multitone test signal) for fast measurement of amplitude and phase for telephone type circuits
O.81 Appendix I	06-1998	
O.81 Appendix I Erratum1	06-2000	
O.82	11-1988	Group-delay measuring equipment for the range 5 to 600 kHz
O.82	11-1988	
O.91	11-1988	Phase jitter measuring equipment for telephone-type circuits
O.91	11-1988	
O.95	11-1988	Phase and amplitude hit counters for telephone-type circuits
O.95	11-1988	
O.111	11-1988	Frequency shift measuring equipment for use on carrier channels
O.111	11-1988	
O.131	11-1988	Quantizing distortion measuring equipment using a pseudo-random noise test signal
O.131	11-1988	
O.132	11-1988	Quantizing distortion measuring equipment using a sinusoidal test signal
O.132	11-1988	
O.133	03-1993	Equipment for measuring the performance of PCM encoders and decoders
O.133	03-1993	
O.150	05-1996	General requirements for instrumentation for performance measurements on digital transmission equipment
O.150	05-1996	
O.150 (1996) Corrigendum 1	05-2002	
O.151	10-1992	Error performance measuring equipment operating at the primary rate and above
O.151	10-1992	
O.151 (1992) Corrigendum 1	05-2002	
O.152	10-1992	Error performance measuring equipment for bit rates of 64 kbit/s and N x 64 kbit/s

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O.152	10-1992	Error performance measuring equipment for bit rates of 64 kbit/s and N x 64 kbit/s	
O.153	10-1992	Basic parameters for the measurement of error performance at bit rates below the primary rate	
O.153	10-1992		
O.161	11-1988	In-service code violation monitors for digital systems	
O.161	11-1988		
O.162	10-1992	Equipment to perform in-service monitoring on 2048, 8448, 34 368 and 139 264 kbit/s signals	
O.162	10-1992		
O.163	11-1988	Equipment to perform in-service monitoring on 1544 kbit/s signals	
O.163	11-1988		
O.171	04-1997	Timing jitter and wander measuring equipment for digital systems which are based on the plesiochronous digital hierarchy (PDH)	
O.171	04-1997		
O.172	04-2005	Jitter and wander measuring equipment for digital systems which are based on the synchronous digital hierarchy (SDH)	
O.172 (2005) Erratum 1	10-2005		Not available, contact sales @itu.int.
O.173	03-2003	Jitter measuring equipment for digital systems which are based on the Optical Transport Network (ONT)	
O.181	05-2002	Equipment to assess error performance on STM-N interfaces	
O.191	02-2000	Equipment to measure the cell transfer performance of ATM connections	
O.191	02-2000		
O.201	07-2003	Q-factor test equipment to estimate the transmission performance of optical channels	
O.211	01-2006	Test and measurement equipment to perform tests at the IP layer	Pre-published.

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Series P : Telephone transmission quality, telephone installations, local line networks

<i>Number</i>	<i>Approval Date</i>	<i>Recommendation Title</i>	<i>Status</i>
		Telephone transmission quality, telephone installations, local line networks	
P.10	12-1998	Vocabulary of terms on telephone transmission quality and telephone sets	
P.10	12-1998		
P.10 (1998) Amendment 1	11-2003	New Annex A – List of psychoacoustic parameters	
P.11	03-1993	Effect of transmission impairments	
P.11	03-1993		
P.16	11-1988	Subjective effects of direct crosstalk; thresholds of audibility and intelligibility	
P.16	11-1988		
P.32	11-1988	Evaluation of the efficiency of telephone booths and acoustic hoods	
P.32	11-1988		
P.48	11-1988	Specification for an intermediate reference system	
P.48	11-1988		
P.50	09-1999	Artificial voices	
P.50	09-1999		
P.50 Erratum 1	05-2000		
P.50 Appendix I	02-1998	Test signals	
P.50 Appendix I	02-1998		
P.51	08-1996	Artificial mouth	
P.51	08-1996		
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Q.1703	05-2004	Service and network capabilities framework of network aspects for systems beyond IMT-2000	
Q.1711	03-1999	Network functional model for IMT-2000	
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Q.1721	06-2000	Information flows for IMT-2000 capability set 1	
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Q.1741.1	04-2002	IMT-2000 references to release 1999 of GSM evolved UMTS core network with UTRAN access network	
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		Stage 3 description for additional information transfer supplementary services using B-ISDN digital subscriber signalling system No. 2 (DSS2) – Basic call
Q.2957.1	02-1995	User-to-user signalling (UUS)
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Q.2959	07-1996	Digital subscriber signalling system No. 2 – Call priority
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		Digital subscriber signalling system No. 2 – Additional traffic parameters
Q.2961B	12-2000	Digital subscriber signalling system No. 2 (DSS2) – Additional traffic parameters: Protocol implementation conformance statement (PICS) proforma
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Q.2961C	12-2000	Digital subscriber signalling system No. 2 (DSS2) – Additional traffic parameters: Test suite structure and test purposes (TSS & TP) for the user
Q.2961C	12-2000	
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Q.2964.1	07-1996	Digital subscriber signalling system No. 2 – Basic look-ahead
Q.2964.1	07-1996	
Q.2965.1	03-1999	Digital subscriber signalling system No. 2 – Support of Quality of Service classes
Q.2965.1	03-1999	
Q.2965.1 (1999) Amendment 1	06-2000	

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Q.2965.1 (1999) Amendment 1	06-2000	
Q.2965.1B	12-2000	Digital subscriber signalling system No. 2 – Support of Quality of Service classes: Protocol Implementation Conformance Statement (PICS) proforma
Q.2965.1B	12-2000	
Q.2965.2	12-1999	Digital subscriber signalling system No. 2 – Signalling of individual Quality of Service parameters
Q.2965.2	12-1999	
Q.2965.2B	12-2000	Digital subscriber signalling system No. 2 – Signalling of individual Quality of Service parameters: Protocol Implementation Conformance Statement (PICS) proforma
Q.2965.2B	12-2000	
Q.2971	10-1995	Digital subscriber signalling system No. 2 – User-network interface layer 3 specification for point-to-multipoint call/connection control
Q.2971	10-1995	
Q.2971 (1999) Corrigendum 1	12-1999	
Q.2971 (1999) Corrigendum 1	12-1999	
Q.2971C	12-1999	Digital subscriber signalling system No. 2 – User-network interface layer 3 specification for point-to-multipoint call/connection control: Test Suite Structure and Test Purposes (TSS & TP) for the user
Q.2971C	12-1999	
Q.2971D	12-1999	Digital subscriber signalling system No. 2 – User-network interface layer 3 specification for point-to-multipoint call/connection control: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra information for testing (PIXIT) proforma for the
Q.2971D	12-1999	
Q.2971E	12-1999	Digital subscriber signalling system No. 2 – User-network interface layer 3 specification for point-to-multipoint call/connection control: Test Suite Structure and Test Purposes (TSS & TP) for the network
Q.2971E	12-1999	
Q.2971F	12-1999	Digital subscriber signalling system No. 2 – User-network interface layer 3 specification for point-to-multipoint call/connection control: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma for the
Q.2971F	12-1999	
Q.2981	12-1999	Broadband integrated services digital network (B-ISDN) and broadband private integrated services network (B-PISN) – Call control protocol
Q.2981	12-1999	
Q.2982	12-1999	Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS2) – Q.2931-based separated call control protocol

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Q.2982	12-1999	Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS2) – Q.2931-based separated call control protocol	
Q.2983	12-1999	Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS2) – Bearer control protocol	
Q.2983	12-1999		
Q.2984	12-1999	Broadband integrated services digital network (B-ISDN) and broadband private integrated services network (B-PISN) – Prenegotiation	
Q.2984	12-1999		
		Abstract test suite for the network integration testing for B-ISDN and B-ISDN/N-ISDN	
Q.2991.1	12-1999	TSS & TP	
Q.2991.1	12-1999		
Q.2991.2	12-1999	ICS & IXIT and ATS	
Q.2991.2	12-1999		
Q-500 series Suppl. 1	11-1988	Definition of relative levels, transmission loss and attenuation/frequency distortion for digital exchanges with complex impedances at Z interfaces	Not available, contact sales@itu.int.
Q-500 series Suppl. 2	11-1988	Impedance strategy for telephone instruments and digital local exchanges in the British Telecom Network	Not available, contact sales@itu.int.
Q.Sup1	10-1995	Signalling System No. 7 testing and planning tools	
Q.Sup2	09-1997	Intelligent network user's guide: Supplement for IN CS-1	
Q.Sup3	05-1998	Number portability – Scope and capability set 1 architecture	
Q.Sup4	05-1998	Number portability – Capability set 1 requirements for service provider portability (All call query and Onward routing)	
Q.Sup5	03-1999	Number portability – Capability set 2 requirements for service provider portability (Query on release and Dropback)	
Q.Sup7	03-1999	Technical Report TRQ.2001: General aspects for the development of unified signalling requirements	
Q.Sup7	03-1999		
Q.Sup8	03-1999	Technical Report TRQ.2400: Transport control signalling requirements – Signalling requirements for AAL Type 2 link control capability set 1	
Q.Sup8	03-1999		
Q.Sup9	03-2004	Technical Report TRQ.2000: Roadmap for the TRQ.2xxx-series Technical Reports	
Q.Sup10	12-1999	Technical Report TRQ.2002: Information flow elements	
Q.Sup10	12-1999		

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Q.Sup11	12-1999	Technical Report TRQ.2010: B-ISDN signalling interworking requirements
Q.Sup11	12-1999	
Q.Sup12	12-1999	Technical Report TRQ.2100: Coordinated call control and bearer control signalling requirements – Root-party coordinated call and bearer control
Q.Sup12	12-1999	
Q.Sup13	12-1999	Technical Report TRQ.2110: Coordinated call control and bearer control signalling requirements – Leaf-party coordinated call and bearer control
Q.Sup13	12-1999	
Q.Sup14	12-1999	Technical Report TRQ.2120: Coordinated call control and bearer control signalling requirements – Third-party coordinated call and bearer control
Q.Sup14	12-1999	
Q.Sup15	12-1999	Technical Report TRQ.2130: Coordinated call control and bearer control signalling requirements for leaf initiated join service
Q.Sup15	12-1999	
Q.Sup16	12-1999	Technical Report TRQ.2140: Signalling requirements for the support of narrowband services via broadband transport technologies
Q.Sup16	12-1999	
Q.Sup17	12-1999	Technical Report TRQ.2200: Call control signalling requirements – Party call control
Q.Sup17	12-1999	
Q.Sup18	12-1999	Technical Report TRQ.2230: Call control signalling requirements – Join call service
Q.Sup18	12-1999	
Q.Sup19	12-1999	Technical Report TRQ.2300: Bearer control signalling requirements – Root-party bearer control
Q.Sup19	12-1999	
Q.Sup20	12-1999	Technical Report TRQ.2310: Bearer control signalling requirements – Leaf-party bearer control
Q.Sup20	12-1999	
Q.Sup21	12-1999	Technical Report TRQ.2320: Bearer control signalling requirements – Third-party bearer control
Q.Sup21	12-1999	
Q.Sup22	12-1999	Technical Report TRQ.3000: Operation of the bearer independent call control (BICC) protocol with digital subscriber signalling system No. 2 (DSS2)
Q.Sup22	12-1999	
Q.Sup23	12-1999	Supplement to ITU-T Q.1901 Recommendation – Technical Report TRQ.3010: Operation of the bearer independent call control (BICC) protocol with AAL type 2 signalling protocol (CS-1)
Q.Sup23	12-1999	

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Q.Sup24	12-1999	Technical Report TRQ.3020: Operation of the bearer independent call control (BICC) protocol with broadband integrated services digital network user part (B-ISUP) for AAL Type 1 adaptation
Q.Sup24	12-1999	
Q.Sup25	12-1999	Supplement to ITU-T Q.2900 series Recommendations: Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS2) – User-network interface layer 3 – Overview of B-ISDN DSS2 signalling capabilities
Q.Sup25	12-1999	
Q.Sup26	12-1999	Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS2) and signalling system No. 7 (B-ISUP) – Support of services over IP-based networks
Q.Sup26	12-1999	
Q.Sup27	12-1999	Technical Report – Overview of Signalling and Protocol Framework for an Emerging Environment (SPFEE)
Q.Sup27	12-1999	
Q.Sup28	12-1999	Technical Report: Signalling and protocol framework for an emerging environment (SPFEE) – Specifications for service access
Q.Sup28	12-1999	
Q.Sup29	12-1999	Service Modelling: Evolution to the use of object oriented techniques
Q.Sup29	12-1999	
Q.Sup30	12-2000	Supplement to ITU-T Recommendation Q.1701 – Roadmap to IMT-2000 Recommendations, Standards and Technical Specifications
Q.Sup31	12-2000	Technical Report TRQ.2141.0: Signalling requirements for the support of narrow-band services over broadband transport technologies – Capability set 2 (CS-2)
Q.Sup32	11-2002	Technical Report TRQ.2141.1: Signalling requirements for the support of narrowband services via broadband transport technologies – CS-2 signalling flows
Q.Sup33	12-2000	Technical Report TRQ.2401: Transport control signalling requirements – Signalling requirements for AAL type 2 link control capability set 2
Q.Sup34	12-2000	Technical Report TRQ.2410: Signalling Requirements Capability Set 1 for the support of IP Bearer Control in BICC networks
Q.Sup35	12-2000	Technical Report TRQ.2500: Signalling Requirements for the support of the call bearer control interface (CS-1)
Q.Sup36	12-2000	Technical Report TRQ.3030: Operation of the bearer independent call control (BICC) protocol (CS-2) with IP bearer control protocol (IPBCP)
Q.Sup37	12-2000	DSS1 and DSS2 Messages and information element identifiers
Q.Sup38	05-2001	Technical Report TRQ.2600: BICC signalling transport requirements – Capability set 1
Q.Sup39	03-2002	Technical Report TRQ.2700: Requirements for signalling in access networks that support BICC
Q.Sup40	11-2002	Technical Report: Reference document on API/object interface between network control and application layer

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Q.Sup41	11-2002	Technical Report TRQ.2003: Roadmap to the BICC protocol Recommendations, BICC interworking Recommendations, and BICC requirement Supplements
Q.Sup42	09-2003	Technical Report TRQ.2402: Transport control signalling requirements – Signalling requirements for AAL type 2 link control Capability Set 3
Q.Sup43	09-2003	Technical Report TRQ.2415: Transport control signalling requirements – Signalling requirements for IP connection control in radio access networks Capability Set 1
Q.Sup44	09-2003	Technical Report TRQ.2800: Transport control signalling requirements – Signalling requirements for AAL type 2 to IP interworking Capability Set 1
Q.Sup45	09-2003	Technical Report TRQ.2815: Requirements for interworking BICC/ISUP network with originating/destination networks based on Session Initiation Protocol and Session Description Protocol
Q.Sup46	09-2003	Technical Report TRQ.2830: ATM-MPLS network interworking signalling requirements
Q.Sup47	11-2003	Emergency services for IMT-2000 networks – Requirements for harmonization and convergence
Q.Sup48	03-2004	Guideline document for specifying API/object interface between network control and application layer
Q.Sup49	03-2004	Technical Report TRQ.2840: Signalling requirements to support IP telephony
Q.Sup50	03-2004	Technical Report TRQ.2145: Requirements for a Narrow-band Signalling Syntax (NSS)

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Series R : Telegraph transmission

<i>Number</i>	<i>Approval Date</i>	<i>Recommendation Title</i>	<i>Status</i>
		Telegraph transmission	
R.2	11-1988	Element error rate	
R.2	11-1988		
R.4	11-1988	Methods for the separate measurements of the degrees of various types of telegraph distortion	
R.4	11-1988		
R.5	03-1993	Observation conditions recommended for routine distortion measurements on international telegraph circuits	
R.5	03-1993		
R.9	03-1993	How the laws governing distribution of distortion should be arrived at	
R.9	03-1993		
R.11	03-1993	Calculation of the degree of distortion of a telegraph circuit in terms of the degrees of distortion of the component links	
R.11	03-1993		
R.20	11-1988	Telegraph modem for subscriber lines	
R.20	11-1988		
R.21	08-1996	9600 bit/s modem standardized for use in the telegraph TDM system	
R.21	08-1996		
R.22	08-1996	Data over voice 19 200 bit/s modem standardized for use on telephone network subscriber lines	
R.22	08-1996		
R.30	11-1988	Transmission characteristic for international VFT links	
R.30	11-1988		
R.31	11-1988	Standardization of AMVFT systems for a modulation rate of 50 bauds	
R.31	11-1988		
R.35	11-1988	Standardization of FMVFT systems for a modulation rate of 50 bauds	
R.35	11-1988		
R.35bis	11-1988	50-baud wideband VFT systems	
R.35bis	11-1988		
R.36	11-1988	Coexistence of 50-baud/120-Hz channels, 100-baud/240-Hz channels, 200-baud/360-Hz or 480-Hz channels on the same voice-frequency telegraph system	

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R.36	11-1988	Coexistence of 50-baud/120-Hz channels, 100-baud/240-Hz channels, 200-baud/360-Hz or 480-Hz channels on the same voice-frequency telegraph system
R.37	11-1988	Standardization of FMVFT systems for a modulation rate of 100 bauds
R.37	11-1988	
R.38 A	11-1988	Standardization of FMVFT system for a modulation rate of 200 bauds with channels spaced at 480 Hz
R.38 A	11-1988	
R.38B	11-1988	Standardization of FMVFT systems for a modulation rate of 200 bauds with channels spaced at 360 Hz usable on long intercontinental bearer circuits generally used with a 3-kHz spacing
R.38B	11-1988	
R.39	11-1988	Voice-frequency telegraphy on radio circuits
R.39	11-1988	
R.40	11-1988	Coexistence in the same cable of telephony and super-telephone telegraphy
R.40	11-1988	
R.43	11-1988	Simultaneous communication by telephone and telegraph on a telephone-type circuit
R.43	11-1988	
R.44	11-1988	6-unit synchronous time-division 2-3-channel multiplex telegraph system for use over FMVFT channels spaced at 120 Hz for connection to standardized teleprinter networks
R.44	11-1988	
R.49	11-1988	Interband telegraphy over open-wire 3-channel carrier systems
R.49	11-1988	
R.50	11-1988	Tolerable limits for the degree of isochronous distortion of code-independent 50-baud telegraph circuits
R.50	11-1988	
R.51	11-1988	Standardized text for distortion testing of the code-independent elements of a complete circuit
R.51	11-1988	
R.51bis	11-1988	Standardized text for testing the elements of a complete circuit
R.51bis	11-1988	
R.52	11-1988	Standardization of international texts for the measurement of the margin of start-stop equipment
R.52	11-1988	
R.53	11-1988	Permissible limits for the degree of distortion on an international 50-baud/120-Hz VFT channel (frequency and amplitude modulation)

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R.53	11-1988	Permissible limits for the degree of distortion on an international 50-baud/120-Hz VFT channel (frequency and amplitude modulation)
R.54	03-1993	Conventional degree of distortion tolerable for standardized start-stop 50-baud systems
R.54	03-1993	
R.55	03-1993	Conventional degree of distortion
R.55	03-1993	
R.56	03-1993	Telegraph distortion limits to be quoted in Recommendations for equipment and transmission plans
R.56	03-1993	
R.57	11-1988	Standard limits of transmission quality for planning code-independent international point-to-point telegraph communications and switched networks using 50-baud start-stop equipment
R.57	11-1988	
R.58	11-1988	Standard limits of transmission quality for the gentex and telex networks
R.58	11-1988	
R.58bis	11-1988	Limits on signal transfer delay for telegraph, telex and gentex networks
R.58bis	11-1988	
R.59	11-1988	Interface requirements for 50-baud start-stop telegraph transmission in the maritime mobile satellite service
R.59	11-1988	
R.60	11-1988	Conditions to be fulfilled by regenerative repeaters for start-stop signals of International Telegraph Alphabet No. 2
R.60	11-1988	
R.62	11-1988	Siting of regenerative repeaters in international telex circuits
R.62	11-1988	
R.70	11-1988	Designation of international telegraph circuits
R.70	11-1988	
R.70bis	11-1988	Numbering of international VFT channels
R.70bis	11-1988	
R.71	11-1988	Organization of the maintenance of international telegraph circuits
R.71	11-1988	
R.72	11-1988	Periodicity of maintenance measurements to be carried out on the channels of international VFT systems
R.72	11-1988	
R.73	11-1988	Maintenance measurements to be carried out on VFT systems

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R.73	11-1988	Maintenance measurements to be carried out on VFT systems
R.74	11-1988	Choice of type of telegraph distortion-measuring equipment
R.74	11-1988	
R.75	11-1988	Maintenance measurements on code-independent international sections of international telegraph circuits
R.75	11-1988	
R.75bis	11-1988	Maintenance measurements of character error rate on international sections of international telegraph circuits
R.75bis	11-1988	
R.76	11-1988	Reserve channels for maintenance measurements on channels of international VFT systems
R.76	11-1988	
R.77	11-1988	Use of bearer circuits for voice-frequency telegraphy
R.77	11-1988	
R.78	11-1988	Pilot channel for AMVFT systems
R.78	11-1988	
R.79	11-1988	Automatic tests of transmission quality on telegraph circuits between switching centres
R.79	11-1988	
R.80	11-1988	Causes of disturbances to signals in VFT channels and their effect on telegraph distortion
R.80	11-1988	
R.81	11-1988	Maximum acceptable limit for the duration of interruption of telegraph channels arising from failure of the normal power supplies
R.81	11-1988	
R.82	11-1988	Appearance of false calling and clearing signals in circuits operated by switched teleprinter services
R.82	11-1988	
R.83	11-1988	Changes of level and interruptions in VFT channels
R.83	11-1988	
R.90	11-1988	Organization for locating and clearing faults in international telegraph switched networks
R.90	11-1988	
R.91	11-1988	General maintenance aspects for the maritime satellite telex service
R.91	11-1988	
R.100	03-1993	Transmission characteristics of international TDM links

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R.100	03-1993	Transmission characteristics of international TDM links
R.101	03-1993	Code and speed dependent TDM system for anisochronous telegraph and data transmission using bit interleaving
R.101	03-1993	
R.102	03-1993	4800 bit/s code and speed dependent and hybrid TDM systems for anisochronous telegraph and data transmission using bit interleaving
R.102	03-1993	
R.103	11-1988	Code and speed-dependent TDM 600 bit/s system for use in point-to-point or branch-line muldex configurations
R.103	11-1988	
R.105	03-1993	Duplex muldex concentrator, connecting a group of gentex and telex subscribers to a telegraph exchange by assigning virtual channels to time slots of a bit-interleaved TDM system
R.105	03-1993	
R.106	08-1995	Muldex unit for telegraph and low speed data transmission using TDM bit interleaving with an aggregate bit rate higher than 4800 bit/s
R.106	08-1995	
R.111	03-1993	Code and speed independent TDM system for anisochronous telegraph and data transmission
R.111	03-1993	
R.112	03-1993	TDM hybrid system for anisochronous telegraph and data transmission using bit interleaving
R.112	03-1993	
R.113	03-1993	Combined muldex for telegraphy and synchronous data transmission
R.113	03-1993	
R.114	03-1993	Numbering of international TDM channels
R.114	03-1993	
R.115	03-1993	Maintenance loops for TDM-systems
R.115	03-1993	
R.116	11-1988	Maintenance tests to be carried out on international TDM systems
R.116	11-1988	
R.117	03-1993	End-to-end error performance for telegraph, telex and gentex connections involving regenerative equipment
R.117	03-1993	
R.118	03-1993	Performance and availability monitoring in regenerative TDM
R.118	03-1993	

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R.120	11-1988	Tolerable limits for the degree of isochronous distortion of code-independent telegraph circuits operating at modulation rates of 75, 100 and 200 bauds
R.120	11-1988	
R.121	11-1988	Standard limits of transmission quality for start-stop user classes of service 1 and 2 on anisochronous data networks
R.121	11-1988	
R.122	11-1988	Summary of transmission plans for rates up to 300 bauds
R.122	11-1988	
R.140	11-1988	Definitions of essential technical terms in the field of telegraph transmission
R.140	11-1988	
R.150	11-1988	Automatic protection switching of dual diversity bearers
R.150	11-1988	

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Series S : Telegraph services terminal equipment

<i>Number</i>	<i>Approval Date</i>	<i>Recommendation Title</i>	<i>Status</i>
		Telegraph services terminal equipment	
S.1	03-1993	International Telegraph Alphabet No. 2	
S.1	03-1993		
S.2	11-1988	Coding scheme using International Telegraph Alphabet No. 2 (ITA2) to allow the transmission of capital and small letters	
S.2	11-1988		
S.3	11-1988	Transmission characteristics of the local end with its termination (ITA2)	
S.3	11-1988		
S.4	03-1993	Special use of certain characters of the International Telegraph Alphabet No. 2	
S.4	03-1993		
S.5	11-1988	Standardization of page-printing start-stop equipment and cooperation between page-printing and tape-printing start-stop equipment (ITA2)	
S.5	11-1988		
S.6	11-1988	Characteristics of answerback units (ITA2)	
S.6	11-1988		
S.7	11-1988	Control of teleprinter motors	
S.7	11-1988		
S.8	03-1993	Intercontinental standardization of the modulation rate of start-stop apparatus and of the use of combination No. 4 in figure-shift	
S.8	03-1993		
S.9	11-1988	Switching equipment of start-stop apparatus	
S.9	11-1988		
S.10	11-1988	Transmission at reduced character transfer rate over a standardized 50-baud telegraph channel	
S.10	11-1988		
S.11	11-1988	Use of start-stop reperfing equipment for perforated tape retransmission	
S.11	11-1988		
S.12	11-1988	Conditions that must be satisfied by synchronous systems operating in connection with standard 50-baud teleprinter circuits	
S.12	11-1988		

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S.13	11-1988	Use on radio circuits of 7-unit synchronous systems giving error correction by automatic repetition
S.13	11-1988	
S.14	11-1988	Suppression of unwanted reception in radiotelegraph multi-destination teleprinter systems
S.14	11-1988	
S.15	11-1988	Use of the telex network for data transmission at 50 bauds
S.15	11-1988	
S.16	03-1993	Connection to the telex network of an automatic terminal using a V.24 DCE/DTE interface
S.16	03-1993	
S.17	11-1988	Answer-back unit simulators
S.17	11-1988	
S.18	11-1988	Conversion between International Telegraph Alphabet No. 2 and International Alphabet No. 5
S.18	11-1988	
S.19	11-1988	Calling and answering in the telex network with automatic terminal equipment
S.19	11-1988	
S.20	03-1993	Automatic clearing procedure for a telex terminal
S.20	03-1993	
S.21	03-1993	Use of display screens in telex machines
S.21	03-1993	
S.22	03-1993	"Conversation impossible" and or pre-recorded message in response to J/BELL signals from a telex terminal
S.22	03-1993	
S.23	03-1993	Automatic request of the answerback of the terminal of the calling party, by the telex terminal of the called party or by the international network
S.23	03-1993	
S.30	11-1988	Standardization of basic model page-printing machine using International Alphabet No. 5
S.30	11-1988	
S.31	11-1988	Transmission characteristics for start-stop data terminal equipment using International Alphabet No. 5
S.31	11-1988	
S.32	11-1988	Answer-back units for 200- and 300-baud start-stop machines in accordance with Recommendation S.30

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S.32	11-1988	Answer-back units for 200- and 300-baud start-stop machines in accordance with Recommendation S.30
S.33	03-1993	Alphabets and presentation characteristics for the intex service
S.33	03-1993	
S.34	03-1993	Intex terminals – Requirements to effect interworking with the international telex service
S.34	03-1993	
S.35	03-1993	Answerback coding for the Intex service
S.35	03-1993	
S.36	07-1996	Intex and similar services – Terminal requirements to effect interworking between terminals operating at different speeds
S.36	07-1996	
S.140	11-1988	Definitions of essential technical terms relating to apparatus for alphabetic telegraphy
S.140	11-1988	
S.suppl	11-1988	Minimal specifications for the bilingual (arabic/latin) teleprinter
S.suppl	11-1988	

Recommendation count: 65

Content of ITU-T Recommendations on DVD March 2006 Edition

Series T : Terminals for telematic services

<i>Number</i>	<i>Approval Date</i>	<i>Recommendation Title</i>	<i>Status</i>
		Terminals for telematic services	
T.0	07-1996	Classification of facsimile terminals for document transmission over the public networks	
T.0	07-1996		
T.1	11-1988	Standardization of phototelegraph apparatus	
T.1	11-1988		
T.4	07-2003	Standardization of Group 3 facsimile terminals for document transmission	
G.511	02-1998	Test methodology for Group 3 facsimile processing equipment in the Public Switched Telephone Network	
G.511	02-1998		
G.511	02-1998		
T.6	11-1988	Facsimile coding schemes and coding control functions for Group 4 facsimile apparatus	
T.6	11-1988		
T.10	11-1988	Document facsimile transmissions on leased telephone-type circuits	
T.10	11-1988		
T.10bis	11-1988	Document facsimile transmissions in the general switched telephone network	
T.10bis	11-1988		
T.22	03-1993	Standardized test charts for document facsimile transmissions	
T.22	03-1993		
T.23	04-1994	Standardized colour test chart for document facsimile transmissions	
T.23	04-1994		
T.24	06-1998	Standardized digitized image set	Available only in PDF.
T.24	06-1998		Available only in PDF.
T.24 (1998) Amend.1	02-2000		Not available, contact sales@itu.int.
T.30	09-2005	Procedures for document facsimile transmission in the general switched telephone network	Pre-published.

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T.31	08-1995	Asynchronous facsimile DCE control – Service Class 1	
T.31	08-1995		
T.31 (1995) Amendment 1	07-1996	Annex B: Procedure for Service Class 1 support of V.34 modems	
T.31 (1995) Amendment 1	07-1996		
T.32	08-1995	Asynchronous facsimile DCE control – Service Class 2	
T.32	08-1995		
T.32 (1995) Amendment 1	07-1996		
T.32 (1995) Amendment 1	07-1996		
T.33	07-1996	Facsimile routing utilizing the subaddress	
T.33	07-1996		
T.35	02-2000	Procedure for the allocation of ITU-T defined codes for non-standard facilities	
T.35	02-2000		
T.36	07-1997	Security capabilities for use with Group 3 facsimile terminals	
T.36	07-1997		
T.36 (1997) Amendment 1	04-1999		
T.36 (1997) Amendment 1	04-1999		
T.37	06-1998	Procedures for the transfer of facsimile data via store-and-forward on the Internet	
T.37	06-1998		
T.37 (1998) Amendment 1	09-1999	Full Mode	
T.37 (1998) Amendment 1	09-1999		
T.37 (1998) Amendment 2	03-2001	Replacement of reference RFC 2531 by RFC 2879	
T.37 (1998) Amendment 3	11-2002	Support of image/tiff and image/tiff-fx MIME content-types	
T.38	09-2005	Procedures for real-time Group 3 facsimile communication over IP networks	Pre-published.
T.39	10-1997	Application profiles for simultaneous voice and facsimile terminals	
T.39	10-1997		
T.42	07-2003	Continuous-tone colour representation method for facsimile	

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T.42 (2003) Corrigendum 1	03-2004	
T.43	07-1997	Colour and gray-scale image representations using lossless coding scheme for facsimile
T.43	07-1997	
T.43 (1997) Amendment 1	02-2000	Accommodation of new and future Resolutions
T.43 (1997) Amendment 1	02-2000	
T.44	01-2005	Mixed Raster Content (MRC)
T.44 (2005) Erratum 1	06-2005	
T.45	02-2000	Run-length Colour Encoding
T.45	02-2000	
T.50	09-1992	International Reference Alphabet (IRA) (Formerly International Alphabet No. 5 or IA5) – Information technology – 7-bit coded character set for information interchange
T.50	09-1992	
T.51	09-1992	Latin based coded character sets for telematic services
T.51	09-1992	
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T.51 (1992) Amendment 1	08-1995	
T.52	03-1993	Non-latin coded character sets for telematic services
T.52	03-1993	
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T.52 (1993) Amendment 1	10-1996	
T.53	04-1994	Character coded control functions for telematic services
T.53	04-1994	
T.62	03-1993	Control procedures for teletex and Group 4 facsimile services
T.62	03-1993	
T.62bis	03-1993	Control procedures for teletex and G4 facsimile services based on Recommendations X.215 and X.225
T.62bis	03-1993	
T.66	03-2002	Facsimile code points for use with Recommendations V.8 and V.8 bis
T.70	03-1993	Network-independent basic transport service for the telematic services

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T.70	03-1993	Network-independent basic transport service for the telematic services
T.71	11-1988	Link access protocol balanced (LAPB) extended for half-duplex physical level facility
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T.80	09-1992	Common components for image compression and communication – Basic principles
T.80	09-1992	
T.81	09-1992	Information technology – Digital compression and coding of continuous-tone still images – Requirements and guidelines
T.81	09-1992	
T.81 (1992) Corrigendum 1	01-2004	Patent information update
T.82	03-1993	Information technology – Coded representation of picture and audio information – Progressive bi-level image compression
T.82	03-1993	
T.82 (1993) Technical Cor.1	03-1995	
T.82 (1993) Technical Cor.1	03-1995	
T.82 (1993) Technical Cor.2	03-2001	
T.83	11-1994	Information technology – Digital compression and coding of continuous-tone still images: Compliance testing
T.83	11-1994	
T.84	07-1996	Information technology – Digital compression and coding of continuous-tone still images: Extensions
T.84	07-1996	
T.84 (1996) Amendment 1	04-1999	Provisions to allow registration of new compression types and versions in the SPIFF header
T.84 (1996) Amendment 1	04-1999	
T.85	08-1995	Application profile for Recommendation T.82 – Progressive bi-level image compression (JBIG coding scheme) for facsimile apparatus
T.85	08-1995	
T.85 (1995) Amendment 1	10-1996	
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T.85 (1995) Amendment 2	10-1997	
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T.86	06-1998	Information technology – Digital compression and coding of continuous-tone still images: Registration of JPEG Profiles, SPIFF Profiles, SPIFF Tags, SPIFF colour Spaces, APPn Markers, SPIFF Compression types and Registration authorities (REGAUT)
T.86	06-1998	
T.87	06-1998	Information technology – Lossless and near-lossless compression of continuous-tone still images – Baseline
T.87	06-1998	
T.88	02-2000	Information technology – Lossy/lossless coding of bi-level images
T.88	02-2000	
T.88 (2000) Amendment 1	06-2003	Encoder
T.88 (2000) Amendment 2	06-2003	Extension of adaptive templates for halftone coding
T.88 Amendment 1 Erratum 1	12-2004	
T.89	09-2001	Application profiles for Recommendation T.88 – Lossy/lossless coding of bi-level images (JBIG2) for facsimile
T.90	02-1992	Characteristics and protocols for terminals for telematic services in ISDN
T.90	02-1992	
T.90 (1992) Amendment 1	11-1994	
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T.90 (1992) Amendment 2	07-1996	
T.90 (1992) Amendment 2	07-1996	
T.90 (1992) Amendment 3	06-1998	Cause value for a G4 fax fallback
T.90 (1992) Amendment 3	06-1998	
T.100	11-1988	International information exchange for interactive Videotex
T.100	11-1988	
T.101	11-1994	International interworking for Videotex services
T.101	11-1994	
T.102	03-1993	Syntax-based Videotex end-to-end protocols for the circuit mode ISDN

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T.104	03-1993	Packet mode access for syntax-based Videotex via PSTN
T.104	03-1993	
T.105	11-1994	Syntax-based Videotex application layer protocol
T.105	11-1994	
T.106	03-1993	Framework of videotex terminal protocols
T.106	03-1993	
T.107	08-1995	Enhanced man machine interface for videotex and other retrieval services (VEMMI)
T.107	08-1995	
T.120	07-1996	Data protocols for multimedia conferencing
T.120	07-1996	
T.120 Annex C	02-1998	Lightweight profiles for the T.120 architecture
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T.121	07-1996	Generic application template
T.121	07-1996	
T.122	02-1998	Multipoint communication service – Service definition
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T.123	05-1999	Network-specific data protocol stacks for multimedia conferencing
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T.125	02-1998	Multipoint communication service protocol specification
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T.128	02-1998	Multipoint application sharing

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T.134	02-1998	Text chat application entity
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T.135	02-1998	User-to-reservation system transactions within T.120 conferences
T.135	02-1998	
T.136	05-1999	Remote device control application protocol
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T.140	02-1998	Protocol for multimedia application text conversation
T.140	02-1998	
T.140 Addendum 1	02-2000	
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T.150	11-1988	Telewriting terminal equipment
T.150	11-1988	
T.170	02-1998	Framework of the T.170-Series of Recommendations
T.170	02-1998	
T.171	10-1996	Protocols for interactive audiovisual services: Coded representation of multimedia and hypermedia objects
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T.172	02-1998	MHEG-5 – Support for base-level interactive applications
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T.175	02-1998	Application programming interface (API) for MHEG-5
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T.300	11-1988	General principles of telematic interworking
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T.330	11-1988	Telematic access to interpersonal messaging system
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T.351	11-1988	Imaging process of character information on facsimile apparatus
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T.390	11-1988	Teletex requirements for interworking with the telex service
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T.411	03-1993	Information technology – Open Document Architecture (ODA) and interchange format: Introduction and general principles
T.411	03-1993	
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T.412	03-1993	Information technology – Open Document Architecture (ODA) and interchange format: Document structures
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T.413	11-1994	Information technology – Open Document Architecture (ODA) and interchange format: Abstract interface for the manipulation of ODA documents

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T.415	03-1993	Information technology – Open Document Architecture (ODA) and interchange format: Open document interchange format (ODIF)
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T.416	03-1993	Information technology – Open Document Architecture (ODA) and interchange format: Character content architectures
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T.417	03-1993	Information technology – Open Document Architecture (ODA) and interchange format: Raster graphics content architectures
T.417	03-1993	
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T.418	03-1993	Information technology – Open Document Architecture (ODA) and interchange format: Geometric graphics content architecture
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T.419	08-1995	Information technology – Open Document Architecture (ODA) and interchange format: Audio content architectures
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T.421	11-1994	Information technology – Open Document Architecture (ODA) and interchange format: Tabular structures and tabular layout
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T.422	08-1995	Information technology – Open Document Architecture (ODA) and interchange format: Identification of document fragments
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T.424	07-1996	Information technology – Open Document Architecture (ODA) and interchange format: Temporal relationships and non-linear structures
T.424	07-1996	
T.431	09-1992	Document Transfer And Manipulation (DTAM) – Services and protocols – Introduction and general principles
T.431	09-1992	
T.432	09-1992	Document Transfer And Manipulation (DTAM) – Services and protocols – Service definition
T.432	09-1992	
T.432 (1992) Amendment 1	08-1995	Revisions of T.432 to support G4 colour and file transfer
T.432 (1992) Amendment 1	08-1995	
T.433	09-1992	Document Transfer And Manipulation (DTAM) – Services and protocols – Protocol specification
T.433	09-1992	
T.433 (1992) Amendment 1	08-1995	Revisions of T.433 to support G4 colour and file transfer
T.433 (1992) Amendment 1	08-1995	
T.434	04-1999	Binary file transfer format for the telematic services
T.434	04-1999	
T.435	08-1995	Document Transfer And Manipulation (DTAM) – Services and protocols – Abstract service definition and procedures for confirmed document manipulation
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T.436	08-1995	Document Transfer and Manipulation (DTAM) – Services and protocols – Protocol specifications for confirmed document manipulation
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T.501	03-1993	Document application profile MM for the interchange of formatted mixed mode documents
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T.502	11-1994	Document application profile PM-11 for the interchange of simple structure, character content documents in processable and formatted forms
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T.503	02-2000	Document application profile for the interchange of Group 4 facsimile documents
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T.504	03-1993	Document application profile for videotex interworking
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T.505	11-1994	Document application profile PM-26 for the interchange of enhanced structure, mixed content documents in processable and formatted forms
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T.506	08-1993	Document application profile PM-36 for the interchange of extended document structures and mixed content documents in processable and formatted forms
T.506	08-1993	
T.510	03-1993	General overview of the T.510-Series Recommendations
T.510	03-1993	
T.521	11-1994	Communication application profile BT0 for document bulk transfer based on the session service
T.521	11-1994	
T.521 (1994) Amendment 1	08-1995	
T.521 (1994) Amendment 1	08-1995	
T.522	09-1992	Communication application profile BT1 for document bulk transfer
T.522	09-1992	
T.523	03-1993	Communication application profile DM-1 for videotex interworking
T.523	03-1993	
T.541	03-1993	Operational application profile for videotex interworking

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T.541	03-1993	Operational application profile for videotex interworking
T.561	11-1988	Terminal characteristics for mixed mode of operation MM
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T.562	11-1988	Terminal characteristics for teletex processable mode PM.1
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T.563	10-1996	Terminal characteristics for Group 4 facsimile apparatus
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T.563 (1996) Amendment 2	10-1997	Annex C – T.30 frames for G4 facsimile
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T.563 (1996) Corrigendum 1	06-1998	
T.563 (1996) Amendment 3	04-1999	
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T.564	03-1993	Gateway characteristics for videotex interworking
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T.571	09-1992	Terminal characteristics for the telematic file transfer within the teletex service
T.571	09-1992	
T.611	11-1994	Programming Communication Interface (PCI) APPLI/COM for facsimile Group 3, facsimile Group 4, teletex, telex, E-mail and file transfer services
T.611	11-1994	
T.800	08-2002	Information technology – JPEG 2000 image coding system: Core coding system
T.800 (2002) Amendment 1	09-2005	Profiles for digital cinema applications
T.801	08-2002	Information technology – JPEG 2000 image coding system: Extensions
T.801 (2002) Corrigendum 3	01-2005	
T.801 (2002) Amendment 2	05-2005	Extended capabilities marker segment

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T.802	01-2005	Information technology – JPEG 2000 image coding system: Motion JPEG 2000	Pre-published.
T.803	11-2002	Information technology – JPEG 2000 image coding system: Conformance testing	Available only in MS Word.
T.804	08-2002	Information technology – JPEG 2000 image coding system: Reference software	Available only in MS Word.
T.808	01-2005	Information technology – JPEG 2000 image coding system: Interactivity tools, APIs and protocols	
T.851	09-2005	ITU-T T.81 (JPEG-1)-based still-image coding using an alternative arithmetic coder	
T.870	03-2002	Information technology – Lossless and near-lossless compression of continuous-tone still images: Extensions	Available only in MS Word.

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Series U : Telegraph switching

<i>Number</i>	<i>Approval Date</i>	<i>Recommendation Title</i>	<i>Status</i>
		Telegraph switching	
U.1	03-1993	Signalling conditions to be applied in the international telex service	
U.1	03-1993		
U.2	11-1988	Standardization of dials and dial pulse generators for the international telex service	
U.2	11-1988		
U.3	11-1988	Arrangements in switching equipment to minimize the effects of false calling signals	
U.3	11-1988		
U.4	11-1988	Exchange of information regarding signals destined to be used over international circuits concerned with switched teleprinter networks	
U.4	11-1988		
U.5	11-1988	Requirements to be met by regenerative repeaters in international connections	
U.5	11-1988		
U.6	11-1988	Prevention of fraudulent transit traffic in the fully automatic international telex service	
U.6	11-1988		
U.7	03-1993	Numbering schemes for automatic switching networks	
U.7	03-1993		
U.8	11-1988	Hypothetical reference connections for telex and gentex networks	
U.8	11-1988		
U.10	03-1993	Equipment of an international telex position	
U.10	03-1993		
U.11	03-1993	Telex and gentex signalling on intercontinental circuits used for intercontinental automatic transit traffic (type C signalling)	
U.11	03-1993		
U.12	03-1993	Terminal and transit control signalling system for telex and similar services on international circuits (type D signalling)	
U.12	03-1993		
U.15	03-1993	Interworking rules for international signalling systems according to Recommendations U.1, U.11 and U.12	
U.15	03-1993		

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U.20	11-1988	Telex and gentex signalling on radio channels (synchronous 7-unit systems affording error correction by automatic repetition)
U.20	11-1988	
U.21	11-1988	Operator recall on a telex call set up on a radiotelegraph circuit
U.21	11-1988	
U.22	11-1988	Signals indicating delay in transmission on calls set up by means of synchronous systems with automatic error correction by repetition
U.22	11-1988	
U.23	11-1988	Use of radiotelegraph circuits with ARQ equipment for fully automatic telex calls charged on the basis of elapsed time
U.23	11-1988	
U.24	11-1988	Requirements for telex and gentex operation to be met by synchronous multiplex equipment described in Recommendation R.44
U.24	11-1988	
U.25	11-1988	Requirements for telex and gentex operation to be met by code- and speed-dependent TDM systems conforming to Recommendation R.101
U.25	11-1988	
U.30	11-1988	Signalling conditions for use in the international gentex network
U.30	11-1988	
U.31	11-1988	Prevention of connection to faulty stations and/or station lines in the gentex service
U.31	11-1988	
U.40	03-1993	Reactions by automatic terminals connected to the telex network in the event of ineffective call attempts or signalling incidents
U.40	03-1993	
U.41	11-1988	Changed address interception and call redirection in the telex service
U.41	11-1988	
U.43	11-1988	Follow-on calls
U.43	11-1988	
U.44	11-1988	Multi-address calls in real time for broadcast purposes in the international telex service
U.44	11-1988	
U.45	03-1993	Response to the not-ready condition of the telex terminal
U.45	03-1993	
U.46	03-1993	Interruption of automatic transmission and flow control in the international telex service
U.46	03-1993	

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U.60	11-1988	General requirements to be met in interfacing the international telex network with maritime satellite systems
U.60	11-1988	
U.61	03-1993	Detailed requirements to be met in interfacing the international telex network with maritime satellite systems
U.61	03-1993	
U.62	03-1993	General requirements to be met in interfacing the international telex network with the fully automated maritime VHF/UHF radio system
U.62	03-1993	
U.63	11-1988	General requirements to be met in interfacing the international telex network with the maritime "direct printing" system
U.63	11-1988	
U.70	11-1988	Telex service signals for telex to teletex interworking
U.70	11-1988	
U.74	11-1988	Extraction of telex selection information from a calling telex answerback
U.74	11-1988	
U.75	03-1993	Automatic called telex answerback check
U.75	03-1993	
U.80	03-1993	International telex store and forward access from a telex subscriber
U.80	03-1993	
U.81	10-1996	International telex store-and-forward – Delivery to a telex subscriber
U.81	10-1996	
U.101	03-1993	Signalling systems for the Intex service (types E and F signalling)
U.101	03-1993	
U.102	07-1996	Intex and similar services – Network requirements to effect interworking between terminals operating at different speeds
U.102	07-1996	
U.140	11-1988	Definitions of essential technical terms relating to telegraph switching and signalling
U.140	11-1988	
U.200	03-1993	The international telex service – General technical requirements for interworking
U.200	03-1993	
U.201	03-1993	Interworking between the teletex service and the international telex service
U.201	03-1993	

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U.202	03-1993	Technical requirements to be met in providing the international telex service within an integrated services digital network
U.202	03-1993	
U.203	03-1993	Technical requirements to be met when providing real-time bothway communications between terminals of the international telex service and data terminal equipments on a PSPDN or via the PSTN
U.203	03-1993	
U.204	03-1993	Interworking between the international telex service and the public interpersonal messaging service
U.204	03-1993	
U.205	03-1993	Store-and-retrieve facility for the delivery of messages from a terminal of the international telex service to a data terminal equipment which connects to a packet-switched public data network over the public switched telephone network
U.205	03-1993	
U.206	03-1993	Technical requirements for interworking between the international telex service and the videotex service
U.206	03-1993	
U.207	03-1993	Technical requirements to be met for the transfer of messages between terminals of the international telex service and Group 3 facsimile terminals connected to the PSTN
U.207	03-1993	
U.208	10-1996	The international telex service – Interworking with the INMARSAT C system using one-stage selection
U.208	10-1996	
U.210	03-1993	Intex service network requirements to effect interworking with the international telex service
U.210	03-1993	
U.220	03-1993	The international telex service – Technical requirements for a status enquiry function in an interworking scenario
U.220	03-1993	

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Series V : Data communication over the telephone network

<i>Number</i>	<i>Approval Date</i>	<i>Recommendation Title</i>	<i>Status</i>
		Data communication over the telephone network	
V.1	11-1988	Equivalence between binary notation symbols and the significant conditions of a two-condition code	
V.1	11-1988		
V.2	11-1988	Power levels for data transmission over telephone lines	
V.2	11-1988		
V.4	11-1988	General structure of signals of International Alphabet No. 5 code for character oriented data transmission over public telephone networks	
V.4	11-1988		
V.7	11-1988	Definitions of terms concerning data communication over the telephone network	
V.7	11-1988		
V.8	11-2000	Procedures for starting sessions of data transmission over the public switched telephone network	
V.8	11-2000		
V.8bis	11-2000	Procedures for the identification and selection of common modes of operation between data circuit-terminating equipments (DCEs) and between data terminal equipments (DTEs) over the public switched telephone network and on leased point-to-point telephone-t	
V.8bis	11-2000		
V.10	03-1993	Electrical characteristics for unbalanced double-current interchange circuits operating at data signalling rates nominally up to 100 kbit/s	
V.10	03-1993		
V.11	10-1996	Electrical characteristics for balanced double-current interchange circuits operating at data signalling rates up to 10 Mbit/s	
V.11	10-1996		
V.12	08-1995	Electrical characteristics for balanced double-current interchange circuits for interfaces with data signalling rates up to 52 Mbit/s	
V.12	08-1995		
V.13	03-1993	Simulated carrier control	
V.13	03-1993		
V.14	03-1993	Transmission of start-stop characters over synchronous bearer channels	
V.14	03-1993		
V.14 (1993) Corrigendum 1	09-1998		

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V.14 (1993) Corrigendum 1	09-1998	
V.15	11-1988	Use of acoustic coupling for data transmission
V.15	11-1988	
V.16	11-1988	Medical analogue data transmission modems
V.16	11-1988	
V.17	02-1991	A 2-wire modem for facsimile applications with rates up to 14 400 bit/s
V.17	02-1991	
V.17 (1991) Corrigendum 1	09-1998	
V.17 (1991) Corrigendum 1	09-1998	
V.18	11-2000	Operational and interworking requirements for DCEs operating in the text telephone mode
V.18	11-2000	
V.18 (2000) Amendment 1	11-2002	Harmonization with ANSI TIA/EIA-825 (2000) text phones
V.19	11-1988	Modems for parallel data transmission using telephone signalling frequencies
V.19	11-1988	
V.21	11-1988	300 bits per second duplex modem standardized for use in the general switched telephone network
V.21	11-1988	
V.22	11-1988	1200 bits per second duplex modem standardized for use in the general switched telephone network and on point-to-point 2-wire leased telephone-type circuits
V.22	11-1988	
V.22bis	11-1988	2400 bits per second duplex modem using the frequency division technique standardized for use on the general switched telephone network and on point-to-point 2-wire leased telephone-type circuits
V.22bis	11-1988	
V.23	11-1988	600/1200-baud modem standardized for use in the general switched telephone network
V.23	11-1988	
V.24	02-2000	List of definitions for interchange circuits between data terminal equipment (DTE) and data circuit-terminating equipment (DCE)
V.24	02-2000	
V.25	10-1996	Automatic answering equipment and general procedures for automatic calling equipment on the general switched telephone network including procedures for disabling of echo control devices for both manually and automatically established calls

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V.25	10-1996	Automatic answering equipment and general procedures for automatic calling equipment on the general switched telephone network including procedures for disabling of echo control devices for both manually and automatically established calls
V.25 (1996) Corrigendum 1	07-2001	
V.25bis	10-1996	Synchronous and asynchronous automatic dialling procedures on switched networks
V.25bis	10-1996	
V.26	11-1988	2400 bits per second modem standardized for use on 4-wire leased telephone-type circuits
V.26	11-1988	
V.26bis	11-1988	2400/1200 bits per second modem standardized for use in the general switched telephone network
V.26bis	11-1988	
V.26ter	11-1988	2400 bits per second duplex modem using the echo cancellation technique standardized for use on the general switched telephone network and on point-to-point 2-wire leased telephone-type circuits
V.26ter	11-1988	
V.27	11-1988	4800 bits per second modem with manual equalizer standardized for use on leased telephone-type circuits
V.27	11-1988	
V.27bis	11-1988	4800/2400 bits per second modem with automatic equalizer standardized for use on leased telephone-type circuits
V.27bis	11-1988	
V.27ter	11-1988	4800/2400 bits per second modem standardized for use in the general switched telephone network
V.27ter	11-1988	
V.28	03-1993	Electrical characteristics for unbalanced double-current interchange circuits
V.28	03-1993	
V.29	11-1988	9600 bits per second modem standardized for use on point-to-point 4-wire leased telephone-type circuits
V.29	11-1988	
V.31	11-1988	Electrical characteristics for single-current interchange circuits controlled by contact closure
V.31	11-1988	
V.31bis	11-1988	Electrical characteristics for single-current interchange circuits using optocouplers
V.31bis	11-1988	

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V.32	03-1993	A family of 2-wire, duplex modems operating at data signalling rates of up to 9600 bit/s for use on the general switched telephone network and on leased telephone-type circuits
V.32	03-1993	
V.32bis	02-1991	A duplex modem operating at data signalling rates of up to 14 400 bit/s for use on the general switched telephone network and on leased point-to-point 2-wire telephone-type circuits
V.32bis	02-1991	
V.33	11-1988	14 400 bits per second modem standardized for use on point-to-point 4-wire leased telephone-type circuits
V.33	11-1988	
V.34	02-1998	A modem operating at data signalling rates of up to 33 600 bit/s for use on the general switched telephone network and on leased point-to-point 2-wire telephone-type circuits
V.34	02-1998	
V.36	11-1988	Modems for synchronous data transmission using 60-108 kHz group band circuits
V.36	11-1988	
V.37	11-1988	Synchronous data transmission at a data signalling rate higher than 72 kbit/s using 60-108 kHz group band circuits
V.37	11-1988	
V.38	10-1996	A 48/56/64 kbit/s data circuit-terminating equipment standardized for use on digital point-to-point leased circuits
V.38	10-1996	
V.41	11-1988	Code-independent error-control system
V.41	11-1988	
V.42	03-2002	Error-correcting procedures for DCEs using asynchronous-to-synchronous conversion
V.42 (2002) Corrigendum 1	07-2003	
V.42bis	01-1990	Data compression procedures for data circuit-terminating equipment (DCE) using error correction procedures
V.42bis	01-1990	
V.43	02-1998	Data flow control
V.43	02-1998	
V.44	11-2000	Data compression procedures
V.44	11-2000	
V.44 (2000) Corrigendum 1	03-2002	
V.50	11-1988	Standard limits for transmission quality of data transmission

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V.50	11-1988	Standard limits for transmission quality of data transmission
M.729	11-1988	Organization of the maintenance of international public switched telephone circuits used for data transmission
M.729	11-1988	
V.53	11-1988	Limits for the maintenance of telephone-type circuits used for data transmission
V.53	11-1988	
V.54	11-1988	Loop test devices for modems
V.54	11-1988	
O.71	11-1988	Impulsive noise measuring equipment for telephone-type circuits
O.71	11-1988	
V.56	11-1988	Comparative tests of modems for use over telephone-type circuits
V.56	11-1988	
V.56bis	08-1995	Network transmission model for evaluating modem performance over 2-wire voice grade connections
V.56bis	08-1995	
V.56ter	08-1996	Test procedure for evaluation of 2-wire 4 kHz voiceband duplex modems
V.56ter	08-1996	
V.58	09-1994	Management information model for V-Series DCEs
V.58	09-1994	
V.59	11-2000	Managed objects for diagnostic information of public switched telephone network connected V-series modem DCEs
V.59	11-2000	
V.59 (2000) Corrigendum 1	07-2001	
V.59 (2000) Corrigendum 2	03-2002	
V.61	08-1996	A simultaneous voice plus data modem, operating at a voice plus data signalling rate of 4800 bit/s, with optional automatic switching to data-only signalling rates of up to 14 400 bit/s, for use on the General Switched Telephone Network and on leased point
V.61	08-1996	
V.61 (1996) Corrigendum 1	01-2005	
V.70	08-1996	Procedures for the simultaneous transmission of data and digitally encoded voice signals over the GSTN, or over 2-wire leased point-to-point telephone type circuits
V.70	08-1996	

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V.70 (1996) Corrigendum 1	01-2005		
V.75	08-1996	DSVD terminal control procedures	
V.75	08-1996		
V.75 (1996) Corrigendum 1	01-2005		
V.75 Appendix II	02-1998	Session establishment using V.75/H.245 procedures	
V.75 Appendix II	02-1998		
V.76	08-1996	Generic multiplexer using V.42 LAPM-based procedures	
V.76	08-1996		
V.76 (1996) Corrigendum 1	01-2005		Pre-published.
V.80	08-1996	In-band DCE control and synchronous data modes for asynchronous DTE	
V.80	08-1996		
V.80 (1996) Amendment 1	07-2001	Additional data signalling rate codes in support of cellular systems	
V.90	09-1998	A digital modem and analogue modem pair for use on the Public Switched Telephone Network (PSTN) at data signalling rates of up to 56 000 bit/s downstream and up to 33 600 bit/s upstream	
V.90	09-1998		
V.91	05-1999	A digital modem operating at data signalling rates of up to 64 000 bit/s for use on a 4-wire circuit switched connection and on leased point-to-point 4-wire digital circuits	
V.91	05-1999		
V.91 (1999) Corrigendum 1	07-2001		
V.92	11-2000	Enhancements to Recommendation V.90	
V.92	11-2000		
V.92 (2000) Amendment 1	07-2001	Update of Tables 18, 19, 31, 32, Figure 20 and Clauses 8.6.6, 8.7.6, 9.10.1, and 9.11	
V.92 (2000) Amendment 2	03-2002	New interaction facilities for error-correcting procedures	
V.92 (2000) Corrigendum 1	07-2003		
V.100	11-1988	Interconnection between public data networks (PDNs) and the public switched telephone networks (PSTN)	
V.100	11-1988		
V.110	02-2000	Support by an ISDN of data terminal equipments with V-series type interfaces	
V.110	02-2000		

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V.120	10-1996	Support by an ISDN of data terminal equipment with V-series type interfaces with provision for statistical multiplexing	
V.120	10-1996		
V.120 (1996) Corrigendum 1	05-1999		
V.120 (1996) Corrigendum 1	05-1999		
V.130	08-1995	ISDN terminal adaptor framework	
V.130	08-1995		
V.140	01-2005	Procedures for establishing communication between two multiprotocol audiovisual terminals using digital channels at a multiple of 64 or 56 kbit/s	
V.150.0	01-2003	Modem-over-IP networks: Foundation	
V.150.1	01-2003	Modem-over-IP networks: Procedures for the end-to-end connection of V-series DCEs	
V.150.1 (2003) Corrigendum 1	07-2003		Pre-published.
V.150.1 (2003) Corrigendum 2	03-2004		Pre-published.
V.150.1 (2003) Amendment 1	01-2005	Modification to SSE reason identifier codes to support voice band data and text relay	
V.152	01-2005	Procedures for supporting voice-band data over IP networks	
V.152 (2005) Corrigendum 1	09-2005		
V.230	11-1988	General data communications interface layer 1 specification	
V.230	11-1988		
V.250	07-2003	Serial asynchronous automatic dialling and control	
V.250 Supplement 1	06-2001	Various extensions to V.250 basic command set	
V.251	08-1996	Procedure for DTE-controlled call negotiation	
V.251	08-1996		
V.251 (1996) Erratum 1	10-2003		
V.252	02-1998	Procedure for control of V.70 and H.324 terminals by a DTE	
V.252	02-1998		
V.253	02-1998	Control of voice-related functions in a DCE by an asynchronous DTE	
V.253	02-1998		
V.300	07-1999	A 128 (144) kbit/s data circuit-terminating equipment standardized for use on digital point-to-point leased circuits	
V.300	07-1999		

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Series X : Data networks, open system communications and security

<i>Number</i>	<i>Approval Date</i>	<i>Recommendation Title</i>	<i>Status</i>
		Data networks, open system communications and security	
X.1	03-2000	International user classes of service in, and categories of access to, public data networks and Integrated Services Digital Networks (ISDNs)	
X.1	03-2000		
X.2	03-2000	International data transmission services and optional user facilities in public data networks and ISDNs	
X.2	03-2000		
X.3	03-2000	Packet Assembly/Disassembly facility (PAD) in a public data network	
X.3	03-2000		
X.4	11-1988	General structure of signals of International Alphabet No. 5 code for character oriented data transmission over public data networks	
X.4	11-1988		
X.5	10-1996	Facsimile Packet Assembly/Disassembly facility (FPAD) in a public data network	
X.5	10-1996		
X.6	08-1997	Multicast service definition	
X.6	08-1997		
X.6 (1997) Amendment 1	03-2000	Frame relay PVC multicast service definition	
X.6 (1997) Amendment 1	03-2000		
X.7	04-2004	Technical characteristics of data transmission services	
X.8	07-1994	Multi-aspect PAD (MAP) framework and service definition	
X.8	07-1994		
X.20	11-1988	Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for start-stop transmission services on public data networks	
X.20	11-1988		
X.20bis	11-1988	Use on public data networks of Data Terminal Equipment (DTE) which is designed for interfacing to asynchronous duplex V-Series modems	
X.20bis	11-1988		
X.21	09-1992	Interface between Data Terminal Equipment and Data Circuit-terminating Equipment for synchronous operation on public data networks	
X.21	09-1992		

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X.21bis	11-1988	Use on public data networks of Data Terminal Equipment (DTE) which is designed for interfacing to synchronous V-Series modems
X.21bis	11-1988	
X.22	11-1988	Multiplex DTE/DCE interface for user classes 3-6
X.22	11-1988	
X.24	11-1988	List of definitions for interchange circuits between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) on public data networks
X.24	11-1988	
X.25	10-1996	Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for terminals operating in the packet mode and connected to public data networks by dedicated circuit
X.25	10-1996	
X.25 (1996) Corrigendum 1	09-1998	
X.25 (1996) Corrigendum 1	09-1998	
V.10	03-1993	Electrical characteristics for unbalanced double-current interchange circuits operating at data signalling rates nominally up to 100 kbit/s
V.10	03-1993	
V.11	10-1996	Electrical characteristics for balanced double-current interchange circuits operating at data signalling rates up to 10 Mbit/s
V.11	10-1996	
X.28	12-1997	DTE/DCE interface for a start-stop mode Data Terminal Equipment accessing the Packet Assembly/Disassembly facility (PAD) in a public data network situated in the same country
X.28	12-1997	
X.28 (1997) Amendment 1	03-2000	Extensions of PAD parameter settings and PAD service signals
X.28 (1997) Amendment 1	03-2000	
X.29	12-1997	Procedures for the exchange of control information and user data between a Packet Assembly/Disassembly (PAD) facility and a packet mode DTE or another PAD
X.29	12-1997	
X.30	03-1993	Support of X.21, X.21 bis and X.20 bis based Data Terminal Equipments (DTEs) by an Integrated Services Digital Network (ISDN)
X.30	03-1993	
X.31	11-1995	Support of packet mode terminal equipment by an ISDN
X.31	11-1995	

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X.32	10-1996	Interface between Data terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for terminals operating in the packet mode and accessing a Packet-Switched Public Data Network through a public switched telephone network or an Integrated Service
X.32	10-1996	
X.33	10-1996	Access to packet-switched data transmission services via frame relaying data transmission services
X.33	10-1996	
X.34	10-1996	Access to packet-switched data transmission services via B-ISDN
X.34	10-1996	
X.34 (1996) Corrigendum 1	03-2000	
X.34 (1996) Corrigendum 1	03-2000	
X.35	11-1993	Interface between a PSPDN and a private PSDN which is based on X.25 procedures and enhancements to define a gateway function that is provided in the PSPDN
X.35	11-1993	
X.36	02-2003	Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for public data networks providing frame relay data transmission service by dedicated circuit
X.37	04-1995	Encapsulation in X.25 packets of various protocols including frame relay
X.37	04-1995	
X.38	10-1996	G3 facsimile equipment/DCE interface for G3 facsimile equipment accessing the Facsimile Packet Assembly/Disassembly facility (FPAD) in a public data network situated in the same country
X.38	10-1996	
X.39	10-1996	Procedures for the exchange of control information and user data between a Facsimile Packet Assembly/Disassembly (FPAD) facility and a packet mode Data Terminal Equipment (DTE) or another FPAD
X.39	10-1996	
X.42	10-2003	Procedures and methods for accessing a public data network from a DTE operating under control of a generalized polling protocol
X.45	10-1996	Interface between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) for terminals operating in the packet mode and connected to public data networks, designed for efficiency at higher speeds
X.45	10-1996	
X.46	09-1998	Access to FRDTS via B-ISDN
X.46	09-1998	
X.48	10-1996	Procedures for the provision of a basic multicast service for data terminal equipments (DTEs) using Recommendation X.25
X.48	10-1996	

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X.49	10-1996	Procedures for the provision of an extended multicast service for data terminal equipments (DTEs) using Recommendation X.25
X.49	10-1996	
X.50	11-1988	Fundamental parameters of a multiplexing scheme for the international interface between synchronous data networks
X.50	11-1988	
X.50bis	11-1988	Fundamental parameters of a 48-kbit/s user data signalling rate transmission scheme for the international interface between synchronous data networks
X.50bis	11-1988	
X.51	11-1988	Fundamental parameters of a multiplexing scheme for the international interface between synchronous data networks using 10-bit envelope structure
X.51	11-1988	
X.51bis	11-1988	Fundamental parameters of a 48-kbit/s user data signalling rate transmission scheme for the international interface between synchronous data networks using 10-bit envelope structure
X.51bis	11-1988	
X.52	11-1988	Method of encoding anisochronous signals into a synchronous user bearer
X.52	11-1988	
X.53	03-1993	Numbering of channels on international multiplex links at 64 kbit/s
X.53	03-1993	
X.54	11-1988	Allocation of channels on international multiplex links at 64 kbit/s
X.54	11-1988	
X.55	11-1988	Interface between synchronous data networks using a 6 + 2 envelope structure and single channel per carrier (SCPC) satellite channels
X.55	11-1988	
X.56	11-1988	Interface between synchronous data networks using an 8 + 2 envelope structure and single channel per carrier (SCPC) satellite channels
X.56	11-1988	
X.57	11-1988	Method of transmitting a single lower speed data channel on a 64 kbit/s data stream
X.57	11-1988	
X.58	11-1988	Fundamental parameters of a multiplexing scheme for the international interface between synchronous non-switched data networks using no envelope structure
X.58	11-1988	
X.60	11-1988	Common channel signalling for circuit-switched data applications
X.60	11-1988	

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X.70	11-1988	Terminal and transit control signalling system for start-stop services on international circuits between anisochronous data networks
X.70	11-1988	
X.71	11-1988	Decentralized terminal and transit control signalling system on international circuits between synchronous data networks
X.71	11-1988	
X.75	10-1996	Packet-switched signalling system between public networks providing data transmission services
X.75	10-1996	
X.75 (1996) Corrigendum 1	09-1998	
X.75 (1996) Corrigendum 1	09-1998	
X.76	02-2003	Network-to-network interface between public networks providing PVC and/or SVC frame relay data transmission service
X.77	08-1997	Interworking between PSPDNs via B-ISDN
X.77	08-1997	
X.77 (1997) Corrigendum 1	03-2000	
X.77 (1997) Corrigendum 1	03-2000	
X.78	06-1999	Interworking procedures between networks providing frame relay data transmission services via B-ISDN
X.78	06-1999	
X.78 (1999) Corrigendum 1	03-2000	
X.78 (1999) Corrigendum 1	03-2000	
X.80	11-1988	Interworking of interexchange signalling systems for circuit-switched data services
X.80	11-1988	
X.81	11-1988	Interworking between an ISDN circuit-switched and a circuit-switched public data network (CSPDN)
X.81	11-1988	
X.82	11-1988	Detailed arrangements for interworking between CSPDNs and PSPDNs based on Recommendation T.70
X.82	11-1988	
X.84	03-2004	Support of frame relay services over MPLS core networks
X.85/Y.1321	03-2001	IP over SDH using LAPS
X.85/Y.1321	03-2001	

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X.85/Y.1321 (2001) Amendment 1	04-2004	Bit-oriented method for LAPS
X.85/Y.1321 (2001) Amendment 1	04-2004	
X.85/Y.1321 (2001) Corrigendum 1	06-2005	
X.85/Y.1321 (2001) Corrigendum 1	06-2005	
X.86/Y.1323	02-2001	Ethernet over LAPS
X.86/Y.1323	02-2001	
X.86/Y.1323 (2001) Amendment 1	04-2002	Using Ethernet flow control as rate limiting
X.86/Y.1323 (2001) Amendment 1	04-2002	
X.87/Y.1324	10-2003	Multiple services ring based on RPR
X.87/Y.1324	10-2003	
X.92	11-1988	Hypothetical reference connections for public synchronous data networks
X.92	11-1988	
X.96	03-2000	Call progress signals in public data networks
X.96	03-2000	
X.110	04-2002	International routing principles and routing plan for Public Data Networks
X.111	02-2003	Principles for the routing of international frame relay traffic
X.115	04-1995	Definition of address translation capability in public data networks
X.115	04-1995	
X.115 (1995) Amendment 1	10-1996	Refinements
X.115 (1995) Amendment 1	10-1996	
X.116	10-1996	Address translation registration and resolution protocol
X.116	10-1996	
X.121	10-2000	International numbering plan for public data networks
X.121	10-2000	
E.166/X.122	03-1998	Numbering plan interworking for the E.164 and X.121 numbering plans

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E.166/X.122	03-1998	Numbering plan interworking for the E.164 and X.121 numbering plans	
X.123	10-1996	Mapping between escape codes and TOA/NPI for E.164/X.121 numbering plan interworking during the transition period	
X.123	10-1996		
X.124	06-1999	Arrangements for the interworking of the E.164 and X.121 numbering plans for frame relay and ATM networks	
X.124	06-1999		
X.125	09-1998	Procedure for the notification of the assignment of international network identification codes for public frame relay data networks and ATM networks numbered under the E.164 numbering plan	
X.125	09-1998		
X.130	11-1988	Call processing delays in public data networks when providing international synchronous circuit-switched data services	
X.130	11-1988		
X.131	11-1988	Call blocking in public data networks when providing international synchronous circuit-switched data services	
X.131	11-1988		
X.134	08-1997	Portion boundaries and packet-layer reference events: basis for defining packet-switched performance parameters	
X.134	08-1997		
X.135	08-1997	Speed of service (delay and throughput) performance values for public data networks when providing international packet-switched services	
X.135	08-1997		
X.135 Suppl. 1	08-1997	Some test results from specific national and international portions	Not available, contact sales@itu.int.
X.136	08-1997	Accuracy and dependability performance values for public data networks when providing international packet-switched services	
X.136	08-1997		
X.137	08-1997	Availability performance values for public data networks when providing international packet-switched services	
X.137	08-1997		
X.138	08-1997	Measurement of performance values for public data networks when providing international packet-switched services	
X.138	08-1997		
X.139	08-1997	Echo, drop, generator and test DTEs for measurement of performance values in public data networks when providing international packet-switched services	
X.139	08-1997		

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X.140	09-1992	General quality of service parameters for communication via public data networks
X.140	09-1992	
X.141	11-1988	General principles for the detection and correction of errors in public data networks
X.141	11-1988	
X.142	10-2003	Quality of service metrics for characterizing Frame Relay/ATM service interworking performance
X.144	10-2003	User information transfer performance parameters for public frame relay data networks
X.145	10-2003	Connection establishment and disengagement performance parameters for public Frame Relay data networks providing SVC services
X.146	10-2000	Performance objectives and quality of service classes applicable to frame relay
X.146	10-2000	
X.147	10-2003	Frame Relay network availability
X.147 (2003) Amendment 1	04-2004	Specification of availability objective values
X.148	02-2003	Procedures for the measurement of the performance of public data networks providing the international frame relay service
X.149	10-2003	Performance of IP networks when supported by public Frame Relay data networks
X.150	11-1988	Principles of maintenance testing for public data networks using Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) test loops
X.150	11-1988	
X.151	10-2003	Frame Relay operations and maintenance – Principles and functions
X.151 (2003) Erratum 1	03-2004	
X.160	10-1996	Architecture for customer network management service for public data networks
X.160	10-1996	
X.161	08-1997	Definition of customer network management services for public data networks
X.161	08-1997	
X.162	03-2000	Definition of management information for customer network management service for public data networks to be used with the CNMc interface
X.162	03-2000	
X.163	04-1995	Definition of management information for customer network management service for public data networks to be used with the CNMe interface
X.163	04-1995	

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X.170	06-1999	Network-network management architecture for data networks
X.170	06-1999	
X.171	03-2000	Network-network management services for data networks
X.171	03-2000	
X.180	11-1988	Administrative arrangements for international closed user groups (CUGs)
X.180	11-1988	
X.181	11-1988	Administrative arrangements for the provision of international permanent virtual circuits (PVCs)
X.181	11-1988	
X.200	07-1994	Information technology – Open Systems Interconnection – Basic Reference Model: The basic model
X.200	07-1994	
X.207	11-1993	Information technology – Open Systems Interconnection – Application layer structure
X.207	11-1993	
X.210	11-1993	Information technology – Open Systems Interconnection – Basic Reference Model: Conventions for the definition of OSI services
X.210	11-1993	
X.211	11-1995	Information technology – Open Systems Interconnection – Physical service definition
X.211	11-1995	
X.212	11-1995	Information technology – Open Systems Interconnection – Data Link service definition
X.212	11-1995	
X.213	10-2001	Information technology – Open Systems Interconnection – Network service definition
X.214	11-1995	Information technology – Open Systems Interconnection -Transport service definition
X.214	11-1995	
X.215	11-1995	Information technology – Open Systems Interconnection – Session service definition
X.215	11-1995	
X.215 (1995) Amendment 1	08-1997	Efficiency enhancements
X.215 (1995) Amendment 1	08-1997	
X.215 (1995) Amendment 2	12-1997	Nested connections functional unit

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X.215 (1995) Amendment 2	12-1997	Nested connections functional unit
X.215 (1995) Technical Cor. 1	03-2000	
X.215 (1995) Technical Cor. 1	03-2000	
X.216	07-1994	Information technology – Open Systems Interconnection – Presentation service definition
X.216	07-1994	
X.216 (1994) Amendment 1	08-1997	Efficiency enhancements
X.216 (1994) Amendment 1	08-1997	
X.216 (1994) Amendment 2	12-1997	Nested connections functional unit
X.216 (1994) Amendment 2	12-1997	
X.217	04-1995	Information technology – Open Systems Interconnection – Service definition for the Association Control Service Element
X.217	04-1995	
X.217 (1995) Amendment 1	10-1996	Support of authentication mechanisms for the connectionless mode
X.217 (1995) Amendment 1	10-1996	
X.217 (1995) Amendment 2	08-1997	Fast-associate mechanism
X.217 (1995) Amendment 2	08-1997	
X.217bis	09-1998	Information technology – Open Systems Interconnection – Service definition for the Application Service Object Association Control Service Element
X.217bis	09-1998	
X.218	03-1993	Reliable Transfer: Model and service definition
X.218	03-1993	
X.219	11-1988	Remote Operations: Model, notation and service definition
X.219	11-1988	
X.220	03-1993	Use of X.200-Series protocols in CCITT applications
X.220	03-1993	
X.222	04-1995	Use of X.25 LAPB-compatible Data Link procedures to provide the OSI connection-mode Data Link service
X.222	04-1995	

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Y.1541	05-2002	Network performance objectives for IP-based services	
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Y.1541 (2002) Amendment 2	02-2004	New Appendix XI – Concatenating QoS values	
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Z.100	08-2002	Specification and Description Language (SDL)	
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Z.100 Annex F1	11-2000	SDL formal definition: General overview	
Z.100 Annex F1	11-2000		
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Z.130	07-2003	Extended Object Definition Language (eODL): Techniques for distributed software component development – Conceptual foundation, notations and technology mappings	Pre-published.
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