List of ITU-T Recommendations on DVD
March 2013 Edition

Number	Approval date	Recommendation Title	Observation	Status
Series A : Organization of the work of ITU-T				
A.1	2008-10-30	Work methods for study groups of the ITU Telecommunication Standardization Sector (ITU-T)		In-force
A.2	2008-10-30	Presentation of contributions to ITU-T		In-force
A.4	2002-06-21	Communication process between ITU-T and Forums and Consortia	Republished in Yellow Book 2004 without further modification	In-force
A.4 (2002) Amd. 1	2006-07-07	Procedures for preparation of liaison statements between scheduled meetings		In-force
A.4 (2002) Amd. 2	2007-12-07	Change to IPR policy qualifying criteria		In-force
A.5	2001-11-30	Generic procedures for including references to documents of other organizations in ITU-T Recommendations	Republished in Yellow Book 2004 without further modification	In-force
A.6	2002-06-21	Cooperation and exchange of information between ITU-T and national and regional standards development organizations	Republished in Yellow Book 2004 without further modification	In-force
A.6 (2002) Amd. 1	2006-07-07	Procedures for preparation of liaison statements between scheduled meetings		In-force
A.6 (2002) Amd. 2	2007-12-07	Change to IPR policy qualifying criteria		In-force
A.7	2008-10-30	Focus groups: Working methods and procedures		In-force
A.8	2008-10-30	Alternative approval process for new and revised ITU-T Recommendations		In-force
A.11	2008-10-30	Publication of ITU-T Recommendations and WTSA proceedings		In-force
A.12	2008-10-30	Identification and layout of ITU-T Recommendations	An "Author's guide for drafting ITU-T Recommendations" is available here: http://www.itu.int/oth/T0A0F000004/en	In-force
A.13	2000-10-06	Supplements to ITU-T Recommendations	Republished in Yellow Book 2004 without further modification	In-force
A.13 (2000) Amd. 1	2007-12-07	Approval of a supplement at a working party meeting		In-force
A.23	2000-10-06	Collaboration with the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) on information technology	Republished in Orange Book 2004 and in the Proceedings of WTSA-08 without further modification	In-force
A.23 Annex A	2010-02-11	Guide for ITU-T and ISO/IEC JTC1 cooperation	This Annex is also published as ISO/IEC JTC1 Standing Document 3	In-force

Number	Approval date	Recommendation Title	Observation	Status
A.31	2008-10-30	Guidelines and coordination requirements for the organization of ITU-T seminars and workshops		In-force
		Supplements to the Series A Recommendations		-
A Suppl. 2	2000-06-14	Guidelines on interoperability experiments	Republished in Yellow Book 2004 without further modification	In-force
A Suppl. 3	2012-07-04	IETF and ITU-T collaboration guidelines		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series D : General tariff principles				
		Terms and definitions		-
D.000	2010-05-21	Terms and definitions for the D-series Recommendations		In-force
		General tariff principles		-
		Private leased telecommunication facilities		-
D.1	1991-07-15	General principles for the lease of international (continental and intercontinental) private telecommunication circuits and networks		In-force
D.3	1992-06-16	Principles for the lease of analogue international circuits for private service	This new Recommendation replaces former Recommendations D.2 and D.3 (1988) which do not correspond anymore to the international regulatory and commercial environment	In-force
D.4	2005-09-16	Special conditions for the lease of international (continental and intercontinental) sound- and television-programme circuits for private service		In-force
D.5	1988-11-25	Costs and value of services rendered as factors in the fixing of rates		In-force
D.7	1992-01-24	Concept and implementation of "one-stop shopping" for international private leased telecommunication circuits		In-force
D.8	1988-11-25	Special conditions for the lease of international end-to-end digital circuits for private service		In-force
D.9	1988-11-25	Private leasing of transmitters or receivers		In-force
		Tariff principles applying to data communication services over dedicated public data networks		-
D.10	1991-07-15	General tariff principles for international public data communication services		In-force
D.11	1991-03-22	Special tariff principles for international packet-switched public data communication services by means of the virtual call facility		In-force
D.12	1988-11-25	Measurement unit for charging by volume in the international packet-switched data communication service		In-force
D.13	1988-11-25	Guiding principles to govern the apportionment of accounting rates in international packet-switched public data communication relations		In-force
D.15	1988-11-25	General charging and accounting principles for non-voice services provided by interworking between public data networks		In-force
D.20	1988-11-25	Special tariff principles for the international circuit-switched public data communication services		In-force

Number	Approval date	Recommendation Title	Observation	Status
D.21	1988-11-25	Special tariff principles for short transaction transmissions on the international packet-switched public data networks using the fast select facility with restriction		In-force
D.30	1988-11-25	Implementation of reverse charging on international public data communication services		In-force
D.35	1992-01-24	General charging principles in the international public message handling services and associated applications		In-force
D.36	1995-03-20	General accounting principles applicable to message handling services and associated applications		In-force
D.37	1996-07-01	Accounting and settlement principles applicable to the provision of public directory services between interconnected Directory Management Domains		In-force
		Charging and accounting in the international public telegram service		In-force
D.40	1992-06-16	General tariff principles applicable to telegrams exchanged in the international public telegram service		In-force
D.41	1988-11-25	Introduction of accounting rates by zones in the international public telegram service		In-force
D.42	1988-11-25	Accounting in the international public telegram service		In-force
D.43	1988-11-25	Partial and total refund of charges in the international public telegram service		In-force
D.43 (1988) Cor. 1	1989-11-21		Applies to English version only. D.43 (1988) Cor.1, D.90 (1988) Cor.1 and D.151/E.251 (1988) Cor.1 were published in a common covering note in June 1990	In-force
		Charging and accounting in the international telemessage service		-
D.45	1992-06-16	Charging and accounting principles for the international telemessage service		In-force
		Principles applicable to GII-Internet		-
D.50	2011-04-01	International Internet connection	This text was approved as D.50 (2008) Amd. 1, but it was decided to integrate it into a new edition	In-force
D.50 Suppl. 1	2011-04-01	General considerations for traffic measurement and options for international internet connectivity		In-force
		Charging and accounting in the international telex service		-
D.60	1991-07-15	Guiding principles to govern the apportionment of accounting rates in intercontinental telex relations		In-force

Number	Approval date	Recommendation Title	Observation	Status
D.61	1988-11-25	Charging and accounting provisions relating to the measurement of the chargeable duration of a telex call	Former D.61/F.61 (1984) was split into D.61 and F.61 on 25/11/1988	In-force
D.65	1988-11-25	General charging and accounting principles in the international telex service for multi-address messages via store-and-forward units		In-force
D.67	1995-03-20	Charging and accounting in the international telex service		In-force
		Charging and accounting in the international facsimile service		-
D.70	1992-06-16	General tariff principles for the international public facsimile service between public bureaux (bureaufax service)		In-force
D.71	1992-06-16	General tariff principles for the public facsimile service between subscriber stations (telefax service)		In-force
D.73	1992-06-16	General tariff and international accounting principles for interworking between the international bureaufax and telefax services		In-force
		Charging and accounting in the international videotex service		-
D.79	1991-07-15	Charging and accounting principles for the international videotex service		In-force
		Charging and accounting in the international phototelegraph service		-
D.80	1988-11-25	Accounting and refunds for phototelegrams		In-force
D.81	1988-11-25	Accounting and refunds for private phototelegraph calls		In-force
D.83	1988-11-25	Rates for phototelegrams and private phototelegraph calls	Former D.83/F.83 (1984). Renumbered D.83 when revised in 1988	In-force
D.85	1988-11-25	Charging for international phototelegraph calls to multiple destinations		In-force
		Charging and accounting in the mobile services		-
D.90	1995-03-20	Charging, billing, international accounting and settlement in the maritime mobile service	The date of entry into force of this Recommendation was fixed at the 01 July 1995	In-force
D.91	1996-07-01	Transmission in encoded form of maritime telecommunications accounting information	TSB circular 125 (29 June 1998) and corresponding covering note detail year 2000 issues regarding the interpretation of transmitted year data	In-force
D.91 (1996) Amd. 1	1998-06-12	Year 2000 issue and its impact on ITU-T D.91 application	Published as a covering note	In-force
D.93	2009-01-23	Charging and accounting in the international land mobile telephone service (provided via cellular radio systems)		In-force
D.94	1992-01-24	Charging, billing and accounting principles for international aeronautical mobile service, and international aeronautical mobile-satellite service		In-force

Number	Approval date	Recommendation Title	Observation	Status
D.95	1992-10-01	Charging, billing, accounting and refunds in the data messaging land/maritime mobile-satellite service		In-force
D.96	1999-12-17	Charging, billing, accounting and settlement principles for Global Mobile Personal Communications by Satellite (GMPCS) for the international telephone service		In-force
D.98	2012-09-07	Charging in international mobile roaming service		In-force
D.99	2012-09-07	Indicative rate for international mobile termination		In-force
		Charging and accounting in the international telephone service		-
D.100	1988-11-25	Charging for international calls in manual or semi-automatic operating		In-force
D.103	1992-06-16	Charging in automatic service for calls terminating on a recorded announcement stating the reason for the call not being completed	This Recommendation is also included but not published in E series under alias number E.231	In-force
D.104/E.232	1988-11-25	Charging for calls to subscriber's station connected either to the absent subscriber's service or to a device substituting a subscriber in his absence	This Recommendation is also published under alias number E.232.	In-force
D.105	1988-11-25	Charging for calls from or to a public call office		In-force
D.106	1988-11-25	Introduction of reduced rates during periods of light traffic in the international telephone service		In-force
D.110	1992-06-16	Charging and accounting for conference calls		In-force
D.115	2004-06-04	Tariff principles and accounting for the International Freephone Service (IFS)		In-force
D.116	2004-06-04	Charging and accounting principles relating to the home country direct telephone service		In-force
D.117	1999-06-11	Charging and accounting principles for the international premium rate service (IPRS)		In-force
D.120	1996-07-01	Charging and accounting principles for the international telecommunication charge card service		In-force
D.140	2002-06-14	Accounting rate principles for the international telephone service		In-force
D.140 Suppl. 1	2002-06-14	Updated teledensities and indicative target settlement rates		In-force
D.140 (2002) Amd. 1	2002-12-13	New Appendix to Annex C: Guidelines		In-force
D.140 (2002) Amd. 2	2003-06-20	Revision to Annex E		In-force
D.140 Suppl. 2	2003-06-20	Updated teledensities and indicative target settlement rates (1 January 2003)		In-force

Number	Approval date	Recommendation Title	Observation	Status
D.140 (2002) Amd. 3	2003-11-21	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		In-force
D.140 Suppl. 3	2004-06-04	Updated teledensities and indicative target settlement rates (1 January 2004)		In-force
D.150	1999-06-11	New system for accounting in international telephony		In-force
D.150 (1999) Amd. 1	2005-09-16	Optional transit share arrangement		In-force
D.150 Suppl. 1	2012-01-20	Checklist for bilateral complex agreements		Pre-published
D.151/E.251	1988-11-25	Old system for accounting in international telephony	E.251 was an alias name of ITU-T D.151. Only this alias name was suppressed. ITU-T D.151 remains valid	In-force
D.151/E.251 (1988) Cor. 1	1989-11-21		Applies to English version only. D.43 (1988) Cor.1, D.90 (1988) Cor.1 and D.151/E.251 (1988) Cor.1 were published in a common covering note in June 1990	In-force
D.155	1996-07-01	Guiding principles governing the apportionment of accounting rates in intercontinental telephone relations		In-force
D.156	2008-10-30	Network externalities		In-force
D.156 (2008) Amd. 1	2010-05-21	New Annex A – Practical implementation of Recommendation ITU-T D.156		In-force
D.156 (2008) Amd. 2	2012-09-07	New Annex B – Determination of the network externality premium		In-force
		Drawing up and exchange of international telephone and telex accounts		In-force
D.160/E.252	1988-11-25	Mode of application of the flat-rate price procedure set forth in Recommendation D.67 and Recommendation D.150 for remuneration of facilities made available to the Administrations of other countries	E.252 was an alias name of ITU-T D.160. Only this alias name was suppressed. ITU-T D.160 remains valid	In-force
D.170	2010-05-21	Monthly telephone and telex accounts		In-force
D.170 Suppl. 1	2010-05-21	Dispute management guidelines		In-force
D.170 Suppl. 2	2010-05-21	Dispute process guidelines		In-force
D.170 Suppl. 3	2012-01-20	ITU-T D.170 - Supplement on guidelines for contents of an international interconnection agreement		In-force
D.170 Suppl. 4	2012-01-20	ITU-T D.170 - Supplement on guidelines for net settlement generic templates		In-force
D.171	1988-11-25	Adjustments and refunds in the international telephone service		In-force

Number	Approval date	Recommendation Title	Observation	Status
D.172	1988-11-25	Accounting for calls circulated over international routes for which accounting rates have not been established		In-force
D.173	1988-11-25	Defaulting subscribers		In-force
D.174/E.277	1988-11-25	Conventional transmission of information necessary for billing and accounting regarding collect and credit card calls	E.277 was an alias name of ITU-T D.174. Only this alias name was suppressed. ITU-T D.174 remains valid	In-force
D.176	1997-12-11	Transmission in encoded form of telephone reversed charge billing and accounting information	TSB circular 125 (29 June 1998) and corresponding covering note detail year 2000 issues regarding the interpretation of transmitted year data	In-force
D.176 (1997) Amd. 1	1998-06-12	Year 2000 issue and its impact on ITU-T D.176 application	Published as a covering note	In-force
D.177	1988-11-25	Adjustment of charges and refunds in the international telex service		In-force
D.178	1993-03-12	Monthly accounts for semi-automatic telephone calls (ordinary and urgent calls, with or without special facilities)		In-force
		International sound- and television-programme transmissions		-
D.180	2005-09-16	Occasional provision of circuits for international sound- and television-programme transmissions		In-force
		Charging and accounting for international satellite services		-
D.185	1988-11-25	General tariff and accounting principles for international one-way point-to-multipoint satellite services		In-force
D.186	1996-10-18	General tariff and accounting principles for international two-way multipoint telecommunication service via satellite		In-force
D.188	1992-10-01	General charging and accounting principles applicable to an international videoconferencing service		In-force
		Transmission of monthly international accounting information		-
D.190	2002-06-14	Exchange of international traffic accounting data between Administrations using electronic data interchange (EDI) techniques		In-force
		Service and privilege telecommunications		-
D.192	1992-06-16	Principles for charging and accounting of service telecommunications		In-force
D.193	1988-11-25	Special tariff principles for privilege telecommunications		In-force
D.195	2012-11-20	Time-scale for settlement of accounts for international telecommunication services		Pre-published
		Settlement of international telecommunication balances of accounts		-

Number	Approval date	Recommendation Title	Observation	Status
D.196	1992-06-26	Clearing of international telecommunication balances of accounts		In-force
D.197	1991-07-05	Notification of change of address(es) for accounting and settlement purposes		In-force
D.201	2002-12-13	General principles regarding call-back practices		In-force
		Charging and accounting principles for international telecommunication services provided over the ISDN		-
D.210	1994-09-15	General charging and accounting principles for international telecommunication services provided over the Integrated Services Digital Network (ISDN)		In-force
D.211	1998-12-15	International accounting for the use of the signal transfer point and/or signalling point for relay in Signalling System No. 7		In-force
D.211 Suppl.1	2010-05-21	Guidelines for international short message service (SMS) interconnection		In-force
D.212	1996-10-18	Charging and accounting principles for the use of Signalling System No. 7		In-force
D.220	1991-03-22	Charging and accounting principles to be applied to international circuit-mode demand bearer services provided over the integrated services digital network (ISDN)		In-force
D.224	1999-12-17	Charging and accounting principles for ATM/B-ISDN		In-force
D.225	1997-12-11	Charging and accounting principles to be applied to frame relay data transmission service		In-force
D.230	1995-03-20	General charging and accounting principles for supplementary services associated with international telecommunication services provided over the Integrated Services Digital Network (ISDN)		In-force
D.231	1988-11-25	Charging and accounting principles relating to the User-to-User Information (UUI) supplementary service		In-force
D.232	1997-05-30	Specific tariff and accounting principles applicable to ISDN supplementary services		In-force
D.233	1996-07-01	Charging and accounting principles to be applied to the reversed charge supplementary service		In-force
D.240	1991-03-22	Charging and accounting principles for teleservices supported by the ISDN		In-force
D.250	1991-07-15	General charging and accounting principles for non-voice services provided by interworking between the ISDN and existing public data networks		In-force
D.251	1988-11-25	General charging and accounting principles for the basic telephone service provided over the ISDN or by interconnection between the ISDN and the public switched telephone network		In-force

Number	Approval date	Recommendation Title	Observation	Status
D.260	1991-03-22	Charging and accounting capabilities to be applied on the ISDN		In-force
		Charging and accounting principles for next generation networks (NGN)		-
D.271	2008-04-04	Charging and accounting principles for NGN		In-force
		Charging and accounting principles for universal personal telecommunication		In-force
D.280	1995-03-20	Principles for charging and billing, accounting and reimbursements for universal personal telecommunication		In-force
		Charging and accounting principles for intelligent network supported services		In-force
D.285	1996-07-01	Guiding principles for charging and accounting for intelligent network supported services		In-force
D.286	1996-07-01	Charging and accounting principles for the global virtual network service		In-force
		Recommendations for regional application		-
		Recommendations applicable in Europe and the Mediterranean Basin		-
D.300 R	1995-03-20	Determination of accounting rate shares in telephone relations between countries in Europe and the Mediterranean Basin		In-force
D.300 R (1995) Amd. 1	1998-06-12	Applicability of 1992 values of standard accounting rate shares components	Published as a covering note	In-force
D.301 R	1995-03-20	Determination of accounting rate shares and collection charges in telex relations between countries in Europe and the Mediterranean Basin		In-force
D.301 R (1995) Amd. 1	1998-06-12	Applicability of 1984 values of standard accounting rate shares components	Published as a covering note	In-force
D.302 R	1995-03-20	Determination of the accounting rate shares and collection charges for the international public telegram service applicable to telegrams exchanged between countries in Europe and the Mediterranean Basin		In-force
D.302 R (1995) Amd. 1	1998-06-12	Applicability of 1984 values of standard transition and terminal rate shares components	Published as a covering note	In-force
D.303 R	1995-03-20	Determination of accounting rate shares and collection charges applicable by countries in Europe and the Mediterranean Basin to the occasional provision of circuits for sound- and television-programme transmissions		In-force
D.303 R (1995) Amd. 1	1998-06-12	Applicability of 1984 values of standard accounting rate shares components	Published as a covering note	In-force
D.306 R	1991-07-15	Remuneration of public packet-switched data transmission networks between the countries of Europe and the Mediterranean Basin		In-force

Number	Approval date	Recommendation Title	Observation	Status
D.307 R	1995-03-20	Remuneration of digital systems and channels used in telecommunication relations between the countries of Europe and the Mediterranean Basin		In-force
D.307 R (1995) Amd. 1	1998-06-12	Applicability of 1984 values of flat-rate remuneration	Published as a covering note	In-force
D.310 R	1995-03-20	Determination of rentals for the lease of international programme (sound- and television-) circuits and associated control circuits for private service in relations between countries in Europe and the Mediterranean Basin		In-force
D.310 R (1995) Amd. 1	1998-06-12	Applicability of 1984 values of the annual rental	Published as a covering note	In-force
		Recommendations applicable in Latin America		-
D.400 R	1999-12-17	Accounting rates applicable to direct traffic relations in voice telephony between countries in Latin America and the Caribbean		In-force
		Recommendations applicable in Asia and Oceania		-
D.500 R	1998-06-12	Accounting rates applicable to telephone relations between countries in Asia and Oceania		In-force
D.501 R	1993-10-06	Accounting rates applicable to telex relations between countries in Asia and Oceania		In-force
		Recommendations applicable to the African Region		In-force
D.600 R	2000-10-06	Cost methodology for the regional tariff group for Africa applicable to the international automatic telephone service		In-force
D.601 R	1993-10-06	Determination of accounting rate shares and collection charges in telex relations between countries in Africa		In-force
D.602 R	2002-12-13	Application of the “sender pays transit” principle in transit relation		In-force
D.603 R	2002-12-13	Minimizing collection charges on inter-African calls		In-force
D.604 R	2005-01-28	The last international transit center pays the traffic		In-force
D.606 R	1988-11-25	Preferential rates in telecommunication relations between countries in Africa		In-force
		Supplements to the Series D Recommendations		-
D Suppl. 1	1988-11-25	Cost and tariff study method		In-force
D Suppl. 2	1988-11-25	Method for carrying out a cost price study by regional tariff groups		In-force
D Suppl. 3	1993-03-12	Handbook on the methodology for determining costs and establishing national tariffs		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series E : Overall network operation, telephone service, service operation and human factors				
		International operation		-
		Definitions		-
E.100	1988-11-25	Definitions of terms used in international telephone operation	Amended by Addendum to circular CCITT No. 23 dated 25 April 1990, amendments to be applied as of 1st July 1990	In-force
E.101	2009-11-24	Definitions of terms used for identifiers (names, numbers, addresses and other identifiers) for public telecommunication services and networks in the E-series Recommendations		In-force
E.101 (2009) Amd. 1	2011-06-10	New Appendix I: Alphabetical list of terms		In-force
		General provisions concerning Administrations		In-force
E.104	1995-02-21	International telephone directory assistance service and public access		In-force
E.105	1992-08-04	International telephone service		In-force
E.106	2003-10-31	International Emergency Preference Scheme (IEPS) for disaster relief operations		In-force
E.107	2007-02-08	Emergency Telecommunications Service (ETS) and interconnection framework for national implementations of ETS		In-force
E.109	1995-02-21	International billed number screening procedures for collect and third-party calling		In-force
E.110	1988-11-25	Organization of the international telephone network	Amended by Addendum to circular CCITT No. 23 dated 25 April 1990, amendments to be applied as of 1st July 1990	In-force
E.111	1988-11-25	Extension of international telephone services		In-force
E.112	1988-11-25	Arrangements to be made for controlling the telephone services between two countries	Amended by Addendum to circular CCITT No. 23 dated 25 April 1990, amendments to be applied as of 1st July 1990	In-force
E.113	1997-05-30	Validation procedures for the international telecommunications charge card service		In-force
E.114	1988-11-25	Supply of lists of subscribers (directories and other means)		In-force
E.115	2010-05-29	Computerized directory assistance		In-force
E.115 (2010) Cor. 1	2012-10-14			In-force
E.116	1997-05-30	International telecommunication charge card service		In-force
E.117	1994-06-01	Terminal devices used in connection with the public telephone service (other than telephones)		In-force

Number	Approval date	Recommendation Title	Observation	Status
E.118	2006-05-11	The international telecommunication charge card		In-force
		General provisions concerning users		-
E.120	1988-11-25	Instructions for users of the international telephone service		In-force
E.121 (2004) Erratum 1	2004-10-11		Applies to English version only	In-force
E.121	2004-06-29	Pictograms, symbols and icons to assist users of the telephone and telefax services	This edition includes the changes introduced by Erratum 1 (10/2004).	In-force
E.122	1988-11-25	Measures to reduce customer difficulties in the international telephone service		In-force
E.123	2001-02-02	Notation for national and international telephone numbers, e-mail addresses and web addresses		In-force
E.123 (2001) Erratum 1	2008-05-23			In-force
E.123 (2001) Amd. 1	2008-05-15	Contact information in case of emergency for mobile telephones		In-force
E.124	1988-11-25	Discouragement of frivolous international calling to unassigned or vacant numbers answered by recorded announcements without charge		In-force
E.126	1988-11-25	Harmonization of the general information pages of the telephone directories published by Administrations		In-force
E.127	1988-11-25	Pages in the telephone directory intended for foreign visitors		In-force
E.128	1988-11-25	Leaflet to be distributed to foreign visitors		In-force
E.129	2013-01-31	Presentation of national numbering plans		Pre-published
E.130	1988-11-25	Choice of the most useful and desirable supplementary telephone services		In-force
E.131	1988-11-25	Subscriber control procedures for supplementary telephone services		In-force
E.132	1988-11-25	Standardization of elements of control procedures for supplementary telephone services		In-force
E.133	1988-11-25	Operating procedures for cardphones		In-force
E.134	1993-03-12	Human factors aspects of public terminals: Generic operating procedures		In-force
E.135	1995-10-03	Human factors aspects of public telecommunication terminals for people with disabilities		In-force
E.136	1997-05-30	Specification of a tactile identifier for use with telecommunication cards		In-force
E.137	1997-05-30	User instructions for payphones		In-force
E.138	2002-06-29	Human factors aspects of public telephones to improve their usability for older people		In-force

Number	Approval date	Recommendation Title	Observation	Status
E.138 (2002) Erratum 1	2003-02-03			In-force
E.139	2012-05-14	Public Internet access points		In-force
		Operation of international telephone services		In-force
E.140	1992-08-04	Operator-assisted telephone service		In-force
E.148	1988-11-25	Routing of traffic by automatic transit exchanges		In-force
E.149	1988-11-25	Presentation of routing data		In-force
E.151	1992-08-04	Telephone conference calls		In-force
E.152	2006-05-11	International freephone service		In-force
E.153	1996-10-18	Home country direct		In-force
E.154	1998-03-09	International Shared Cost Service		In-force
E.155	1998-03-09	International Premium Rate Service		In-force
E.155 (1998) Amd. 1	2001-02-02			In-force
E.156	2006-05-11	Guidelines for ITU-T action on reported misuse of E.164 number resources		In-force
E.156 Suppl. 1	2007-11-08	Best practice guide on countering misuse of E.164 number resources		In-force
E.156 Suppl. 2	2011-06-10	Possible actions to counter misuse		In-force
E.157	2009-11-24	International calling party number delivery		In-force
		Numbering plan of the international telephone service		-
E.161	2001-02-02	Arrangement of digits, letters and symbols on telephones and other devices that can be used for gaining access to a telephone network		In-force
E.161.1	2008-09-23	Guidelines to select Emergency Number for public telecommunications networks		In-force
E.161.1 (2008) Amd.1	2009-11-24			In-force
E.164	2010-11-18	The international public telecommunication numbering plan		In-force
E.164 (2010) Amd. 1	2011-06-10	Revised Annex A: Clarification and explanation of the structure and function of international ITU-T E.164-numbers		In-force
E.164 Suppl. 1	1998-03-09	Alternatives for carrier selection and network identification		In-force
E.164 Suppl. 2	2012-03-29	Number portability		In-force
E.164 Suppl. 3	2004-05-28	Operational and administrative issues associated with national implementations of the ENUM functions		In-force
E.164 Suppl. 3 (2004) Amd. 1	2009-11-24			In-force

Number	Approval date	Recommendation Title	Observation	Status
E.164 Suppl. 4	2004-05-28	Operational and administrative issues associated with the implementation of ENUM for non-geographic country codes		In-force
E.164 Suppl. 4 (2004) Amd. 1	2009-11-24			In-force
E.164 Suppl. 5	2009-11-24	Guidance with regard to the selection of numbers for helplines for children		In-force
E.164 Suppl. 6	2012-03-29	Guidelines for identifying and selecting globally harmonized numbers		In-force
E.164.1	2008-09-23	Criteria and procedures for the reservation, assignment and reclamation of E.164 country codes and associated identification codes (ICs)		In-force
E.164.2	2001-02-02	E.164 numbering resources for trials		In-force
E.164.3	2001-09-14	Principles, criteria and procedures for the assignment and reclamation of E.164 country codes and associated identification codes for groups of countries		In-force
E.165/Q.11 ter	1988-11-25	Timetable for coordinated implementation of the full capability of the numbering plan for the ISDN era (Recommendation E.164)	This Recommendation is also published under alias number Q.11 ter	In-force
E.165.1	1996-10-08	Use of escape code "0" within the E.164 numbering plan during the transition period to implementation of NPI mechanism		In-force
E.166/X.122	1998-03-09	Numbering plan interworking for the E.164 and X.121 numbering plans	This Recommendation is published with the double number E.166 and X.122.	In-force
E.167	1988-11-25	ISDN Network Identification Codes		In-force
E.168	2002-05-16	Application of E.164 numbering plan for UPT		In-force
E.168 (2002) Amd. 1	2004-05-28	New Appendix I		In-force
E.168.1	2005-02-24	Assignment procedures for universal personal telecommunications (UPT) numbers in the provisioning of the international UPT service		In-force
E.169	2002-05-16	Application of Recommendation E.164 numbering plan for universal international numbers for international telecommunications services using country codes for global services		In-force
E.169.1	2001-09-14	Application of Recommendation E.164 numbering plan for universal international freephone numbers for international freephone service	Formerly Rec. E.169	In-force
E.169.2	2000-10-06	Application of Recommendation E.164 numbering plan for universal international premium rate numbers for the international premium rate service		In-force

Number	Approval date	Recommendation Title	Observation	Status
E.169.3	2000-10-06	Application of Recommendation E.164 numbering plan for universal international shared cost numbers for international shared cost service		In-force
		International routing plan		In-force
E.170	1992-10-30	Traffic routing		In-force
E.172	1992-10-30	ISDN routing plan	Replaces ITU-T I.335 (1988)	In-force
E.173	1991-08-23	Routing plan for interconnection between public land mobile networks and fixed terminal networks		In-force
E.174	1995-04-21	Routing principles and guidance for Universal Personal Telecommunications (UPT)		In-force
E.175	1988-11-25	Models for international network planning		In-force
E.177	1996-10-08	B-ISDN routing		In-force
		Tones in national signalling systems		In-force
E.180/Q.35	1998-03-09	Technical characteristics of tones for the telephone service	This Recommendation is published with the double number E.180 and Q.35	In-force
E.181	1988-11-25	Customer recognition of foreign tones	Q.36 was an alias name of ITU-T E.181. Only this alias name was suppressed. ITU-T E.181 remains valid	In-force
E.182	1998-03-09	Application of tones and recorded announcements in telephone services		In-force
E.183	1998-03-09	Guiding principles for telephone announcements		In-force
E.184	1988-11-25	Indications to users of ISDN terminals		In-force
		Numbering plan of the international telephone service		In-force
E.190	1997-05-30	Principles and responsibilities for the management, assignment and reclamation of E-series international numbering resources		In-force
E.190 (1997) Amd.1	2009-11-24			In-force
E.191	2000-03-17	B-ISDN addressing		In-force
E.191 (2000) Cor. 1	2001-09-14		Published as a covering note. Cancels erratum of March 2001	In-force
E.191 (2000) Amd.1	2009-11-24			In-force
E.191.1	2001-02-02	Criteria and procedures for the allocation of ITU-T International Network Designator addresses		In-force
E.191.1 (2001) Amd.1	2009-11-24			In-force
E.193	2000-03-17	E.164 country code expansion		In-force
E.195	2000-10-06	ITU-T International numbering resource administration		In-force

Number	Approval date	Recommendation Title	Observation	Status
E.195 (2000) Amd. 1	2009-11-24			In-force
		Maritime mobile service and public land mobile service		-
E.202	1992-10-30	Network operational principles for future public mobile systems and services		In-force
E.210/F.120	1988-11-25	Ship station identification for VHF/UHF and maritime mobile-satellite services	Former E.210/F.120/Q.11 ter (1984). This Recommendation is also published under alias number E.210.	In-force
E.212	2008-05-15	The international identification plan for public networks and subscriptions	This Recommendation includes the changes introduced by Amendment 1 (09/2008)	In-force
E.212 (2008) Amd. 1	2008-09-23	New annexes E and F	This amendment is not published since its content has been directly incorporated in ITU-T E.212 (05/2008)	In-force
E.212 (2008) Amd. 2	2010-11-18	Revised Annex F – Illustration of uses of ITU-T E.212 resources		In-force
E.212 (2008) Amd. 3	2011-06-10	Revised Annex E: The use of an MCC+MNC in a country other than the country to which the MCC has been assigned by the Director of TSB		In-force
E.213	1988-11-25	Telephone and ISDN numbering plan for land mobile stations in public land mobile networks (PLMN)		In-force
E.214	2005-02-24	Structure of the land mobile global title for the signalling connection control part (SCCP)		In-force
E.217	2002-05-16	Maritime communications – Ship station identity		In-force
E.218	2004-05-28	Management of the allocation of terrestrial trunk radio Mobile Country Codes		In-force
E.220	1996-02-19	Interconnection of public land mobile networks (PLMN)		In-force
		Operational provisions relating to charging and accounting in the international telephone service		-
		Charging in the international telephone service		-
E.230	1992-08-04	Chargeable duration of calls		In-force
D.103	1992-06-16	Charging in automatic service for calls terminating on a recorded announcement stating the reason for the call not being completed	This Recommendation is also included but not published in E series under alias number E.231	In-force
D.104/E.232	1988-11-25	Charging for calls to subscriber's station connected either to the absent subscriber's service or to a device substituting a subscriber in his absence	This Recommendation is also published under alias number E.232.	In-force

Number	Approval date	Recommendation Title	Observation	Status
		Measuring and recording call durations for accounting purposes		-
E.260	1988-11-25	Basic technical problems concerning the measurement and recording of call durations		In-force
E.261	1988-11-25	Devices for measuring and recording call durations		In-force
D.174/E.277	1988-11-25	Conventional transmission of information necessary for billing and accounting regarding collect and credit card calls	E.277 was an alias name of ITU-T D.174. Only this alias name was suppressed. ITU-T D.174 remains valid	In-force
		Utilization of the international telephone network for non-telephony applications		-
		General		In-force
E.300	1988-11-25	Special uses of circuits normally employed for automatic telephone traffic		In-force
E.301	1993-03-12	Impact of non-voice applications on the telephone network		In-force
		Phototelegraphy		-
E.320	1988-11-25	Speeding up the establishment and clearing of phototelegraph calls		In-force
F.107	1988-11-25	Rules for phototelegraph calls established over circuits normally used for telephone traffic	Published as F.82 (11/88), then renumbered as F.107. This Recommendation is also included but not published in E series under alias number E.323	In-force
		ISDN provisions concerning users		-
E.330	1988-11-25	User control of ISDN-supported services		In-force
E.331	1991-10-11	Minimum user-terminal interface for a human user entering address information into an ISDN terminal		In-force
E.333/Z.323	1988-11-25	Man-machine interaction	This Recommendation is also included but not published in E series under alias number E.333	In-force
		International routing plan		In-force
E.350	2000-03-17	Dynamic routing interworking		In-force
E.351	2000-03-17	Routing of multimedia connections across TDM-, ATM- and IP-based networks		In-force
E.352	2000-03-17	Routing guidelines for efficient routing methods		In-force
E.353	2001-02-02	Routing of calls when using international network routing addresses		In-force
E.360.1	2002-05-16	Framework for QoS routing and related traffic engineering methods for IP-, ATM-, and TDM-based multiservice networks		In-force
E.360.2	2002-05-16	QoS routing and related traffic engineering methods – Call routing and connection routing methods		In-force
E.360.3	2002-05-16	QoS routing and related traffic engineering methods – QoS resource management methods		In-force

Number	Approval date	Recommendation Title	Observation	Status
E.360.4	2002-05-16	QoS routing and related traffic engineering methods – Routing table management methods and requirements		In-force
E.360.5	2002-05-16	QoS routing and related traffic engineering methods – Transport routing methods		In-force
E.360.6	2002-05-16	QoS routing and related traffic engineering methods – Capacity management methods		In-force
E.360.7	2002-05-16	QoS routing and related traffic engineering methods – Traffic engineering operational requirements		In-force
E.361	2003-05-02	QoS routing support for interworking of QoS service classes across routing technologies		In-force
E.370	2001-02-02	Service principles when public circuit-switched international telecommunication networks interwork with IP-based networks		In-force
		Network management		-
		International service statistics		-
E.401	1988-11-25	Statistics for the international telephone service (number of circuits in operation and volume of traffic)		In-force
		International network management		-
E.408	2004-05-28	Telecommunication networks security requirements		In-force
E.409	2004-05-28	Incident organization and security incident handling: Guidelines for telecommunication organizations		In-force
E.410	1998-03-09	International network management – General information		In-force
E.411	2000-03-17	International network management – Operational guidance		In-force
E.411 (2000) Amd. 1	2001-03-15			In-force
E.412	2003-01-13	Network management controls		In-force
E.412.1	2007-12-14	Assessing the impact of resource discontinuity in transport networks on service availability		In-force
E.413	1988-11-25	International network management – Planning		In-force
E.414	1988-11-25	International network management – Organization		In-force
E.415	1991-08-23	International network management guidance for common channel signalling system No. 7		In-force
E.416	2000-03-17	Network management principles and functions for B-ISDN traffic		In-force
E.417	2005-02-24	Framework for the network management of IP-based networks		In-force
E.418	2003-05-02	Framework for network management of IMT-2000 networks		In-force
E.419	2006-02-13	Business oriented Key Performance Indicators for management of networks and services		In-force

Number	Approval date	Recommendation Title	Observation	Status
		Checking the quality of the international telephone service		-
E.420	1988-11-25	Checking the quality of the international telephone service – General considerations		In-force
E.421	1988-11-25	Service quality observations on a statistical basis		In-force
E.422	1996-02-19	Observations on international outgoing telephone calls for quality of service		In-force
E.423	1988-11-25	Observations on traffic set up by operators		In-force
E.424	1992-10-30	Test calls		In-force
E.425	2002-03-16	Internal automatic observations		In-force
E.426	1992-10-30	General guide to the percentage of effective attempts which should be observed for international telephone calls		In-force
E.427	1988-11-25	Collection and statistical analysis of special quality of service observation data for measurements of customer difficulties in the international automatic service		In-force
E.428	1992-10-30	Connection retention		In-force
E.430	1992-06-16	Quality of service framework		In-force
E.431	1992-06-16	Service quality assessment for connection set-up and release delays		In-force
E.432	1992-06-16	Connection quality		In-force
E.433	1992-06-16	Billing integrity		In-force
E.434	1992-06-16	Subscriber-to-subscriber measurement of the public switched telephone network		In-force
E.436	1998-03-09	Customer Affecting Incidents and blocking Defects Per Million		In-force
E.437	1999-05-14	Comparative metrics for network performance management		In-force
E.438	2000-03-17	Performance parameters and measurement methods to assess N-ISDN 64 kbit/s circuit-switched bearer service UDI in operation		In-force
E.439	2000-03-17	Test call measurement to assess N-ISDN 64 kbit/s circuit-switched bearer service UDI in operation		In-force
E.440	1996-02-19	Customer satisfaction point		In-force
E.450	1998-03-09	Facsimile quality of service on public networks – General aspects		In-force
E.451	2001-02-02	Facsimile call cut-off performance		In-force
E.452	1993-03-12	Facsimile modem speed reductions and transaction time		In-force
E.453	1994-08-12	Facsimile image quality as corrupted by transmission-induced scan line errors		In-force
E.454	1996-10-08	Transmission performance metrics based on Error Correction Mode (ECM) facsimile		In-force
E.456	1998-03-09	Test transaction for facsimile transmission performance		In-force
E.457	1996-02-19	Facsimile measurement methodologies		In-force
E.458	1996-02-19	Figure of merit for facsimile transmission performance		In-force

Number	Approval date	Recommendation Title	Observation	Status
E.459	1998-03-09	Measurements and metrics for characterizing facsimile transmission performance using non-intrusive techniques		In-force
E.460	2000-03-17	Measurements and metrics for monitoring the performance of V.34 Group 3 Facsimile		In-force
E.470	2005-02-24	Operational considerations for QoS of voice over IP-based networks with PSTN-IP-PSTN architecture		In-force
E.480	2006-09-06	Framework for service management operational requirements – Service management		In-force
E.480 (2006) Amd. 1	2007-10-14			In-force
		Traffic engineering		-
		Measurement and recording of traffic		-
E.490	1992-06-16	Traffic measurement and evaluation – General survey		In-force
E.490.1	2003-01-13	Overview of Recommendations on traffic engineering		In-force
E.491	1997-05-30	Traffic measurement by destination		In-force
E.492	1996-02-19	Traffic reference period		In-force
E.493	1996-02-19	Grade of service (GOS) monitoring		In-force
E.500	1998-11-13	Traffic intensity measurement principles		In-force
E.501	1997-05-30	Estimation of traffic offered in the network		In-force
E.502	2001-02-02	Traffic measurement requirements for digital telecommunication exchanges		In-force
E.503	1992-06-16	Traffic measurement data analysis		In-force
E.504	1988-11-25	Traffic measurement administration		In-force
E.505	1992-06-16	Measurements of the performance of common channel signalling network		In-force
		Forecasting of traffic		-
E.506	1992-06-16	Forecasting international traffic		In-force
E.507	1988-11-25	Models for forecasting international traffic		In-force
E.508	1992-10-30	Forecasting new telecommunication services		In-force
		Determination of the number of circuits in manual operation		-
		Determination of the number of circuits in automatic and semi-automatic operation		-
E.520	1988-11-25	Number of circuits to be provided in automatic and/or semiautomatic operation, without overflow facilities		In-force
E.521	1988-11-25	Calculation of the number of circuits in a group carrying overflow traffic		In-force
E.522	1988-11-25	Number of circuits in a high-usage group		In-force
E.523	1988-11-25	Standard traffic profiles for international traffic streams		In-force
E.524	1999-05-14	Overflow approximations for non-random inputs		In-force

Number	Approval date	Recommendation Title	Observation	Status
E.525	1992-06-16	Designing networks to control grade of service		In-force
E.526	1993-03-12	Dimensioning a circuit group with multi-slot bearer services and no overflow inputs		In-force
E.527	2000-03-17	Dimensioning at a circuit group with multi-slot bearer services and overflow traffic		In-force
E.528	1996-02-19	Dimensioning of digital circuit multiplication equipment (DCME) systems		In-force
E.529	1997-05-30	Network dimensioning using end-to-end GOS objectives		In-force
		Grade of service		-
E.540	1988-11-25	Overall grade of service of the international part of an international connection		In-force
E.541	1988-11-25	Overall grade of service for international connections (subscriber-to-subscriber)		In-force
E.543	1988-11-25	Grades of service in digital international telephone exchanges		In-force
E.550	1993-03-12	Grade-of-service and new performance criteria under failure conditions in international telephone exchanges		In-force
		Definitions		-
E.600	1993-03-12	Terms and definitions of traffic engineering		In-force
		Traffic engineering for IP-networks		In-force
E.651	2000-03-17	Reference connections for traffic engineering of IP access networks		In-force
E.671	2000-03-17	Post-selection delay in PSTN/ISDN networks using Internet telephony for a portion of the connection		In-force
E.681	2001-10-29	Traffic engineering methods for IP acess networks based on hybrid fiber/coax system		In-force
		ISDN traffic engineering		-
E.700	1992-10-30	Framework of the E.700-Series Recommendations		In-force
E.701	1992-10-30	Reference connections for traffic engineering		In-force
E.711	1992-10-30	User demand modelling		In-force
E.712	1992-10-30	User plane traffic modelling		In-force
E.713	1992-10-30	Control plane traffic modelling		In-force
E.716	1996-10-08	User demand modelling in Broadband-ISDN		In-force
E.720	1988-11-25	ISDN grade of service concept		In-force
E.721	1999-05-14	Network grade of service parameters and target values for circuit-switched services in the evolving ISDN		In-force
E.723	1992-06-16	Grade-of-service parameters for Signalling System No. 7 networks		In-force
E.724	1996-02-19	GOS parameters and target GOS objectives for IN services		In-force
E.726	2000-03-17	Network grade of service parameters and target values for B-ISDN		In-force
E.728	1998-03-09	Grade-of-service parameters for B-ISDN signalling		In-force

Number	Approval date	Recommendation Title	Observation	Status
E.731	1992-10-30	Methods for dimensioning resources operating in circuit-switched mode		In-force
E.733	1998-11-13	Methods for dimensioning resources in Signalling System No. 7 networks		In-force
E.734	1996-10-08	Methods for allocating and dimensioning Intelligent Network (IN) resources		In-force
E.735	1997-05-30	Framework for traffic control and dimensioning in B-ISDN		In-force
E.736	2000-03-17	Methods for cell level traffic control in B-ISDN		In-force
E.737	2001-02-02	Dimensioning methods for B-ISDN		In-force
E.743	1995-04-21	Traffic measurements for SS No. 7 dimensioning and planning		In-force
E.744	1996-10-08	Traffic and congestion control requirements for SS No. 7 and IN-structured networks		In-force
E.745	2000-03-17	Cell level measurement requirements for the B-ISDN		In-force
		Mobile network traffic engineering		-
E.750	2000-03-17	Introduction to the E.750 series of Recommendations on traffic engineering aspects of networks supporting personnal communications services		In-force
E.751	1996-02-19	Reference connections for traffic engineering of land mobile networks		In-force
E.752	1996-10-08	Reference connections for traffic engineering of maritime and aeronautical systems		In-force
E.755	1996-02-19	Reference connections for UPT traffic performance and GOS		In-force
E.760	2000-03-17	Terminal mobility traffic modelling		In-force
E.770	1993-03-12	Land mobile and fixed network interconnection traffic grade of service concept		In-force
E.771	1996-10-08	Network grade of service parameters and target values for circuit-switched public land mobile services		In-force
E.773	1996-10-08	Maritime and aeronautical mobile grade of service concept		In-force
E.774	1996-10-08	Network grade of service parameters and target values for maritime and aeronautical mobile services		In-force
E.775	1996-02-19	UPT grade of service concept		In-force
E.776	1996-10-08	Network grade of service parameters for UPT		In-force
		Quality of telecommunication services: concepts, models, objectives and dependability planning		-
		Terms and definitions related to the quality of telecommunication services		In-force
E.800	2008-09-23	Definitions of terms related to quality of service		In-force
E.801	1996-10-08	Framework for Service Quality Agreement		In-force
E.802	2007-02-08	Framework and methodologies for the determination and application of QoS parameters		In-force

Number	Approval date	Recommendation Title	Observation	Status
E.803	2011-12-14	Quality of service parameters for supporting service aspects		In-force
		Models for telecommunication services		-
E.810	1992-10-30	Framework of the Recommendations on the serveability performance and service integrity for telecommunication services		In-force
E.820	1992-10-30	Call models for serveability and service integrity performance		In-force
E.830	1992-10-30	Models for the specification, evaluation and allocation of serveability and service integrity		In-force
		Objectives for quality of service and related concepts of telecommunication services		-
E.845	1988-11-25	Connection accessibility objective for the international telephone service		In-force
E.846	1993-03-12	Accessibility for 64 kbit/s circuit-switched international end-to-end ISDN connection types		In-force
E.850	1992-10-30	Connection retainability objective for the international telephone service		In-force
E.855	1988-11-25	Connection integrity objective for the international telephone service		In-force
		Use of quality of service objectives for planning of telecommunication networks		In-force
E.860	2002-06-29	Framework of a service level agreement		In-force
E.861	2006-02-13	Defining operations competency metrics		In-force
E.862	1992-06-16	Dependability planning of telecommunication networks		In-force
		Field data collection and evaluation on the performance of equipment, networks and services		-
E.880	1988-11-25	Field data collection and evaluation on the performance of equipment, networks and services		In-force
		Other		In-force
E.910	2005-12-15	Procedures for registration within the domain ".int"		In-force
		International operation		-
		Numbering plan of the international telephone service		In-force
E.1100	2009-11-24	Specification of an international numbering resource for use in the provisioning of international help lines		In-force
E.1110	2013-01-31	Allocation and assignment of ITU-T E.164 country code 888		Pre-published
		Network management		In-force
		International network management		In-force
E.4110	2010-01-13	Framework for operations requirements of next generation networks and services		In-force
		Supplements to the Series E Recommendations		In-force

Number	Approval date	Recommendation Title	Observation	Status
E.1100 series Suppl. 1	2012-03-29	ITU-T E.1100-series – Operational aspects for the implementation of ITU-T E.164 country code 888		Pre-published
		Supplements to the Series E Recommendations relating to the operations of the international service		In-force
E-300 series Suppl. 1	1988-11-25	List of possible supplementary telephone services which may be offered to subscribers		In-force
E-300 series Suppl. 3	1988-11-25	North american precise audible tone plan		In-force
E-300 series Suppl. 4	1988-11-25	Treatment of calls considered as terminating abnormally		In-force
E-300 series Suppl. 5	1984-10-19	Modelling of an experimental test design for the determination of inexperienced user difficulties in setting up international calls using nationally available instructions, or to compare different sets of instructions		In-force
E-300 series Suppl. 6	1988-11-25	Preparation of information to customers travelling abroad		In-force
E-300 series Suppl. 7	1988-11-25	Description of INMARSAT existing and planned systems		In-force
		Supplements to the Series E Recommendations relating to telephone network management and traffic engineering		-
E-800 series Suppl. 1	1988-11-25	Table of the Erlang formula		In-force
E-800 series Suppl. 2	1988-11-25	Curves showing the relation between the traffic offered and the number of circuits required		In-force
E-800 series Suppl. 5	1988-11-25	Teletraffic implications for international switching and operational procedures resulting from a failure of a transmission facility		In-force
E-800 series Suppl. 7	1988-11-25	Guide for evaluating and implementing alternate routing networks		In-force
E-800 series Suppl. 8	2009-11-12	Guidelines for inter-provider quality of service		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series F : Non-telephone telecommunication services				
		Telegraph service		-
		Operating methods for the international public telegram service		-
F.1	1998-03-09	Operational provisions for the international public telegram service		In-force
F.1 (1998) Amd. 1	2007-11-08			In-force
F.2	1988-11-25	Operational provisions for the collection of telegram charges	Published as F.42 (11/88), then renumbered as F.2	In-force
F.4	1988-11-25	Plain and secret language		In-force
F.10	1988-11-25	Character error rate objective for telegraph communication using 5-unit start-stop equipment		In-force
F.11	1991-10-11	Continued availability of traditional services		In-force
F.14	1992-08-04	General provisions for one-stop-shopping arrangements		In-force
F.15	1992-08-04	Evaluating the success of new services		In-force
F.16	1995-02-21	Global virtual network service		In-force
F.17	1992-08-04	Operational aspects of service telecommunications		In-force
F.18	1998-03-09	Guidelines on harmonization of international public bureau services		In-force
F.19	1996-10-18	Collection and dissemination of official service information	Formerly C.2, renumbered as F.19 on 25/01/2002 without further modification	In-force
		The gentex network		In-force
F.20	1988-11-25	The international gentex service		In-force
F.21	1988-11-25	Composition of answer-back codes for the international gentex service		In-force
F.23	1988-11-25	Grade of service for long-distance international gentex circuits		In-force
F.24	1988-11-25	Average grade of service from country to country in the gentex service		In-force
		Message switching		-
F.30	1993-03-12	Use of various sequences of combinations for special purposes		In-force
F.31	1988-11-25	Telegram retransmission system		In-force
F.32	1995-10-03	Telegram destination indicators	Formerly Rec. F.96	In-force
F.35	1988-11-25	Provisions applying to the operation of an international public automatic message switching service for equipments utilizing the International Telegraph Alphabet No. 2		In-force
		The international telemessage service		In-force
F.40	1991-03-11	International public telemessage service	Formerly Rec. F.50	In-force
F.41	1991-03-11	Interworking between the telemessage service and the international public telegram service	Formerly Rec. F.51	In-force
		The international telex service		In-force

Number	Approval date	Recommendation Title	Observation	Status
F.59	1996-10-18	General characteristics of the international telex service		In-force
F.60	1992-08-04	Operational provisions for the international telex service		In-force
F.61	1988-11-25	Operational provisions relating to the chargeable duration of a telex call	Former D.61/F.61 (1984) was split into D.61 and F.61 on 25/11/1988	In-force
F.63	1993-03-12	Additional facilities in the international telex service		In-force
F.64	1988-11-25	Determination of the number of international telex circuits required to carry a given volume of traffic		In-force
F.65	1988-11-25	Time-to-answer by operators at international telex positions		In-force
F.68	1988-11-25	Establishment of the automatic intercontinental telex network		In-force
F.69	1994-06-01	The international telex service – Service and operational provisions of telex destination codes and telex network identification codes		In-force
F.70	1988-11-25	Evaluating the quality of the international telex service		In-force
F.71	1988-11-25	Interconnection of private teleprinter networks with the telex network		In-force
F.72	1996-10-18	The international telex service – General principles and operational aspects of a store and forward facility		In-force
F.74	1992-08-04	Intermediate storage devices accessed from the international telex service using single stage selection – Answerback format		In-force
F.80	1991-10-11	Basic requirements for interworking relations between the international telex service and other services		In-force
F.82	1991-10-11	Operational provisions to permit interworking between the international telex service and the intex service		In-force
F.83	1990-07-02	Operational principles for communication between terminals of the international telex service and data terminal equipment on packet-switched public data networks	Published as F.73, then renumbered as F.83. A Corrigendum was indicated in 12/1990	In-force
F.421	1988-11-25	Message handling services: Intercommunication between the IPM service and the telex service	This Recommendation is also included but not published in F series under alias number F.85. F.85 is renumbered from Rec. F.75 indicated in Blue Book fascicle II.4 (1988)	In-force
F.421 (1988) Erratum 1	1999-06-18			In-force
F.87	1991-03-11	Operational principles for the transfer of messages from terminals on the telex network to Group 3 facsimile terminals connected to the public switched telephone network	Drafted as F.76, then approved as F.87	In-force

Number	Approval date	Recommendation Title	Observation	Status
F.89	1992-08-04	Status enquiry function in the international telex service		In-force
		Statistics and publications on international telegraph services		-
		Scheduled and leased communication services		In-force
F.100	1988-11-25	Scheduled radiocommunication service		In-force
F.104	1991-10-11	International leased circuit services – Customer circuit designations		In-force
		Phototelegraph service		In-force
F.105	1988-11-25	Operational provisions for phototelegrams	Published as F.80 (11/88), then renumbered as F.105	In-force
F.106	1988-11-25	Operational provisions for private phototelegraph calls	Published as F.80 bis (11/88), then renumbered as F.106	In-force
F.107	1988-11-25	Rules for phototelegraph calls established over circuits normally used for telephone traffic	Published as F.82 (11/88), then renumbered as F.107. This Recommendation is also included but not published in E series under alias number E.323	In-force
F.108	1988-11-25	Operating rules for international phototelegraph calls to multiple destinations	Published as F.85 (11/88), then renumbered as F.108	In-force
		Mobile service		-
		Mobile services and multidestination satellite services		-
F.110	1996-07-19	Operational provisions for the maritime mobile service	The date of entry into effect of this Recommendation edition is 1 January 1997	In-force
F.111	1991-03-11	Principles of service for mobile systems		In-force
F.112	1988-11-25	Quality objectives for 50-baud start-stop telegraph transmission in the maritime mobile-satellite service		In-force
F.113	1992-08-04	Service provisions for aeronautical passenger communications supported by mobile-satellite systems		In-force
F.115	1995-02-21	Service objectives and principles for future public land mobile telecommunication systems		In-force
F.116	2000-03-17	Service features and operational provisions in IMT-2000		In-force
E.210/F.120	1988-11-25	Ship station identification for VHF/UHF and maritime mobile-satellite services	Former E.210/F.120/Q.11 ter (1984). This Recommendation is also published under alias number E.210.	In-force
F.122	1988-11-25	Operational procedures for the maritime satellite data transmission service		In-force
F.127	1996-10-18	Operational procedures for interworking between the international telex service and the service offered by the INMARSAT-C system		In-force
F.130	1988-11-25	Maritime answer-back codes		In-force

Number	Approval date	Recommendation Title	Observation	Status
F.131	1988-11-25	Radiotelex service codes		In-force
F.140	1993-03-12	Point-to-multipoint telecommunication service via satellite		In-force
F.141	1994-06-01	International two-way multipoint telecommunication service via satellite		In-force
F.150	1991-10-11	Service and operational provisions for the Intex service		In-force
		Telematic services		-
		Public facsimile service		-
F.162	1996-07-19	Service and operational requirements of store-and-forward facsimile service		In-force
F.163	1996-07-19	Operational requirements of the interconnection of facsimile store-and-forward units		In-force
F.170	1998-03-09	Operational provisions for the international public facsimile service between public bureaux (Bureaufax)		In-force
F.171	1988-11-25	Operational provisions relating to the use of store-and-forward switching nodes within the bureaufax service		In-force
F.182 bis	1996-10-18	Guidelines for the support of the communication of documents using Group 3 facsimile between user terminals via public networks		In-force
F.185	1998-06-18	Internet facsimile: Guidelines for the support of the communication of facsimile documents		In-force
F.190	1992-08-04	Operational provisions for the international facsimile service between public bureaux and subscriber stations and vice versa (bureaufax-telefax and vice versa)		In-force
		Teletex service		-
		Videotex service		-
		General provisions for telematic services		-
F.350	1988-11-25	Application of Series T Recommendations		In-force
F.351	1988-11-25	General principles on the presentation of terminal identification to users of the telematic services		In-force
F.353	1988-11-25	Provision of telematic and data transmission services on integrated services digital network (ISDN)		In-force
		Message handling services		-
F.400/X.400	1999-06-18	Message handling system and service overview		In-force
F.401	1992-08-04	Message handling services: Naming and addressing for public message handling services		In-force
F.410	1992-08-04	Message handling services: The public message transfer service		In-force
F.415	1988-11-25	Message handling services: Intercommunication with public physical delivery services	Erratum in F.410 (08/92)	In-force

Number	Approval date	Recommendation Title	Observation	Status
F.420	1992-08-04	Message handling services: The public interpersonal messaging service		In-force
F.421	1988-11-25	Message handling services: Intercommunication between the IPM service and the telex service	This Recommendation is also included but not published in F series under alias number F.85. F.85 is renumbered from Rec. F.75 indicated in Blue Book fascicle II.4 (1988)	In-force
F.421 (1988) Erratum 1	1999-06-18			In-force
F.423	1992-08-04	Message handling services: Intercommunication between the interpersonal messaging service and the telefax service		In-force
F.435	1999-06-18	Message handling services: Electronic Data Interchange messaging service		In-force
F.440	1992-08-04	Message handling services: The voice messaging service		In-force
F.471	1997-08-09	Operational requirements for the interconnection of voice-mail store-and-forward units		In-force
F.471 (1997) Cor. 1	1998-09-25			In-force
F.472	1997-08-09	Service and operational requirements of the voice-mail store-and-forward service		In-force
		Directory services		-
F.500	1992-08-04	International public directory services		In-force
F.510	2003-02-13	Automated directory assistance – White pages service definition		In-force
F.515	2003-04-22	Unified Directory specification		In-force
		Document communication		-
		Document communication		-
		Programming communication interfaces		-
F.581	1993-03-12	Guidelines for programming communication interfaces (PCIs) definition: Service Recommendation		In-force
		Data transmission services		-
F.600	2004-04-29	Service and operational principles for public data transmission service		In-force
		Audiovisual services		In-force
F.700	2000-11-17	Framework Recommendation for multimedia services		In-force
F.701	2000-11-17	Guideline Recommendation for identifying multimedia service requirements		In-force
F.702	1996-07-19	Multimedia conference services		In-force
F.703	2000-11-17	Multimedia conversational services		In-force
F.720	1992-08-04	Videotelephony services – General		In-force
F.721	1992-08-04	Videotelephony teleservice for ISDN		In-force

Number	Approval date	Recommendation Title	Observation	Status
F.723	1996-07-19	Videophone service in the Public Switched Telephone Network (PSTN)		In-force
F.724	2005-09-13	Service description and requirements for videotelephony services over IP networks		In-force
F.731	1997-07-11	Multimedia Conference Services in the ISDN		In-force
F.732	1996-10-18	Multimedia conference services in the B-ISDN		In-force
F.733	2005-09-13	Service description and requirements for multimedia conference services over IP networks		In-force
F.740	1993-08-31	Audiovisual interactive services		In-force
F.741	2005-09-13	Service description and requirements for audiovisual on-demand services		In-force
F.742	2005-09-13	Service description and requirements for distance learning services		In-force
F.743	2009-12-14	Requirements and service description for visual surveillance		In-force
F.744	2009-12-14	Service description and requirements for ubiquitous sensor network middleware		In-force
F.745	2010-10-14	Functional requirements for network-based speech-to-speech translation services		In-force
F.746	2012-06-29	Requirements of multimedia optimization control components		In-force
F.747.1	2012-06-29	Capabilities of ubiquitous sensor networks for supporting requirements of smart metering services		Pre-published
F.747.2	2012-06-29	Deployment guidelines for ubiquitous sensor network applications and services for mitigating climate change		Pre-published
F.750	2005-02-13	Metadata framework		In-force
F.761	1988-11-25	Service-oriented requirements for telewriting applications	Published as F.730 (11/88), then renumbered as F.761	In-force
F.771	2008-08-06	Service description and requirements for multimedia information access triggered by tag-based identification		In-force
F.790	2007-01-13	Telecommunications accessibility guidelines for older persons and persons with disabilities		In-force
		ISDN services		-
F.811	1996-07-19	Broadband connection-oriented bearer service		In-force
F.812	1992-08-04	Broadband connectionless data bearer service		In-force
F.813	1995-02-21	Virtual path service for reserved and permanent communications		In-force
		Universal personal telecommunication		-
F.850	1993-03-12	Principles of Universal Personal Telecommunication (UPT)		In-force
F.851	1995-02-21	Universal Personal Telecommunication (UPT) – Service description (service set 1)		In-force
F.852	2000-03-17	Universal Personal Telecommunication (UPT) – Service description (service set 2)		In-force

Number	Approval date	Recommendation Title	Observation	Status
F.853	1998-11-13	Supplementary services in the Universal Personal Telecommunication (UPT) environment		In-force
		Human factors		In-force
F.901	1993-03-12	Usability evaluation of telecommunication services		In-force
F.902	1995-02-21	Interactive services design guidelines		In-force
F.910	1995-02-21	Procedures for designing, evaluating and selecting symbols, pictograms and icons		In-force
		Supplements to the Series F Recommendations		In-force
F Suppl. 1	1988-11-25	Definitions relating to telegraph, telematic and data transmission services		In-force
F Suppl. 2	1988-11-25	Terms and definitions for telex		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series G : Transmission systems and media, digital systems and networks				
		International telephone connections and circuits		In-force
		Transmission planning and the E-model		-
P.10/G.100	2006-07-14	Vocabulary for performance and quality of service	Replaces former G.100 (2001) and P.10 (1998)	In-force
P.10/G.100 (2006) Amd. 2	2008-07-14	New definitions for inclusion in Recommendation ITU-T P.10/G.100	This Amendment supersedes Amendment 1	In-force
P.10/G.100 (2006) Amd. 3	2011-12-14	New definitions for inclusion in Recommendation ITU-T P.10/G.100		In-force
G.100.1	2001-11-29	The use of the decibel and of relative levels in speechband telecommunications		In-force
G.101	2003-11-13	The transmission plan		In-force
G.102	1988-11-25	Transmission performance objectives and Recommendations		In-force
G.103	1998-12-03	Hypothetical reference connections		In-force
G.105	1988-11-25	Hypothetical reference connection for crosstalk studies		In-force
G.107	2011-12-14	The E-model: a computational model for use in transmission planning		In-force
G.107 (2011) Amd. 1	2012-06-07	New Appendix IV - Use of the E-model in conjunction with noise reduction or echo canceller systems in the network or the terminal equipment		In-force
G.107.1	2011-12-14	Wideband E-model		In-force
G.108	1999-09-30	Application of the E-model: A planning guide		In-force
G.108 (1999) Erratum 1	2000-12-07			In-force
G.108 (1999) Amd. 1	2003-09-30	New Appendix I – The relationship between and interaction of talker echo and absolute delay		In-force
G.108 (1999) Amd. 2	2004-03-31	New Appendix II – Planning examples regarding delay in packet-based networks		In-force
G.108.1	2000-05-18	Guidance for assessing conversational speech transmission quality effects not covered by the E-model		In-force
G.108.2	2007-03-01	Transmission planning aspects of echo cancellers		In-force
G.108.2 (2007) Amd. 1	2007-10-11	New Appendix III – Guidance for using echo cancellers to prevent low-level echo		In-force
G.109	1999-09-30	Definition of categories of speech transmission quality		In-force
G.109 (1999) Amd. 1	2007-01-25	New Appendix I – The E-model-based quality contours for predicting speech transmission quality and user satisfaction from time-varying transmission impairments		In-force

Number	Approval date	Recommendation Title	Observation	Status
		General Recommendations on the transmission quality for an entire international telephone connection		-
G.111	1993-03-12	Loudness ratings (LRs) in an international connection		In-force
G.113	2007-11-13	Transmission impairments due to speech processing		In-force
G.113 (2007) Amd.1	2009-03-19	Revised Appendix IV - Provisional planning values for the wideband equipment impairment factor and the wideband packet loss robustness factor		In-force
G.114	2003-05-07	One-way transmission time		In-force
G.114 (2003) Amd. 1	2003-09-30	New Appendix II: Guidance on one-way delay for Voice over IP	The text introduced by this amendment was directly included in G.114 (05/2003)	Pre-published
G.114 (2003) Amd.2	2009-11-12	New Appendix III – Delay variation on unshared access lines		In-force
G.115	1996-02-06	Mean active speech level for announcement and speech synthesis systems		In-force
G.116	1999-09-30	Transmission performance objectives applicable to end-to-end international connections		In-force
G.117	1996-02-06	Transmission aspects of unbalance about earth		In-force
		General characteristics of national systems forming part of international connections		-
G.120	1998-12-03	Transmission characteristics of national networks		In-force
G.121	1993-03-12	Loudness ratings (LRs) of national systems		In-force
G.122	1993-03-12	Influence of national systems on stability and talker echo in international connections		In-force
G.126	1993-03-12	Listener echo in telephone networks		In-force
		General characteristics of the 4-wire chain formed by the international circuits and national extension circuits		-
G.131	2003-11-13	Talker echo and its control		In-force
G.136	1999-09-30	Application rules for Automatic Level Control Devices		In-force
G.136 (1999) Erratum 1	2000-05-25			In-force
		General characteristics of the 4-wire chain of international circuits; international transit		-
G.142	1998-12-03	Transmission characteristics of exchanges		In-force
		General characteristics of international telephone circuits and national extension circuits		-
		Apparatus associated with long-distance telephone circuits		-
G.160	2012-06-29	Voice enhancement devices		Pre-published

Number	Approval date	Recommendation Title	Observation	Status
G.161	2012-06-29	Interaction aspects of signal processing network equipment		Pre-published
G.164	1988-11-25	Echo suppressors		In-force
G.165	1993-03-12	Echo cancellers		In-force
G.168 (2012) Erratum 1	2012-11-29			In-force
G.168	2012-02-29	Digital network echo cancellers	The published text of this Recommendation includes the modifications introduced by ITU-T G.168 (2012) Amd.1 (05/2012).	In-force
G.168 (2012) Amd. 1	2012-05-11	New Appendix VII on guidance on echo canceller orientation in conference bridge applications	This Amendment was never published, its content having been included in the published Rec. ITU-T G.168 (2012).	Pre-published
G.169	2011-05-14	Automatic level control devices		In-force
		Transmission plan aspects of special circuits and connections using the international telephone connection network		-
G.172	1988-11-25	Transmission plan aspects of international conference calls		In-force
G.173	1993-03-12	Transmission planning aspects of the speech service in digital public land mobile networks		In-force
G.174	1994-06-21	Transmission performance objectives for terrestrial digital wireless systems using portable terminals to access the PSTN		In-force
G.175	2000-05-18	Transmission planning for private/public network interconnection of voice traffic		In-force
G.176	1997-04-18	Planning guidelines for the integration of ATM technology into networks supporting voiceband services		In-force
G.177	1999-09-30	Transmission planning for voiceband services over hybrid Internet/PSTN connections		In-force
		Protection and restoration of transmission systems		-
G.180	1993-03-12	Characteristics of N + M type direct transmission restoration systems for use on digital and analogue sections, links or equipment		In-force
G.181	1993-03-12	Characteristics of 1 + 1 type restoration systems for use on digital transmission links		In-force
		Software tools for transmission systems		-
G.191	2010-03-29	Software tools for speech and audio coding standardization	This Recommendation includes 1 CD-ROM containing the software tools library (STL-2009). The STL-2009 Manual is freely available from ITU-T website (http://www.itu.int/rec/T-REC-G.191).	In-force

Number	Approval date	Recommendation Title	Observation	Status
G.192	1996-03-20	A common digital parallel interface for speech standardization activities		In-force
		General characteristics common to all analogue carrier-transmission systems		-
		Definitions and general considerations		-
G.211	1988-11-25	Make-up of a carrier link		In-force
G.212	1988-11-25	Hypothetical reference circuits for analogue systems		In-force
G.213	1988-11-25	Interconnection of systems in a main repeater station		In-force
G.214	1988-11-25	Line stability of cable systems		In-force
G.215	1988-11-25	Hypothetical reference circuit of 5000 km for analogue systems		In-force
		General Recommendations		In-force
G.221	1988-11-25	Overall recommendations relating to carrier-transmission systems		In-force
G.222	1988-11-25	Noise objectives for design of carrier-transmission systems of 2500 km		In-force
G.223	1988-11-25	Assumptions for the calculation of noise on hypothetical reference circuits for telephony		In-force
G.224	1988-11-25	Maximum permissible value for the absolute power level (power referred to one milliwatt) of a signalling pulse	This Recommendation was formerly also included in Q series under number Q.16	In-force
G.225	1988-11-25	Recommendations relating to the accuracy of carrier frequencies		In-force
G.226	1988-11-25	Noise on a real link		In-force
G.227	1988-11-25	Conventional telephone signal		In-force
G.228	1988-11-25	Measurement of circuit noise in cable systems using a uniform-spectrum random noise loading		In-force
G.229	1988-11-25	Unwanted modulation and phase jitter		In-force
		Translating equipment used on various carrier-transmission systems		In-force
G.230	1988-11-25	Measuring methods for noise produced by modulating equipment and through-connection filters		In-force
G.231	1988-11-25	Arrangement of carrier equipment		In-force
G.232	1988-11-25	12-channel terminal equipments		In-force
G.233	1988-11-25	Recommendations concerning translating equipments		In-force
		Utilization of groups, supergroups, etc.		In-force
G.241	1988-11-25	Pilots on groups, supergroups, etc.		In-force
G.242	1988-11-25	Through-connection of groups, supergroups, etc.		In-force
G.243	1988-11-25	Protection of pilots and additional measuring frequencies at points where there is a through-connection		In-force
		Individual characteristics of international carrier telephone systems on metallic lines		In-force

Number	Approval date	Recommendation Title	Observation	Status
		Carrier telephone systems on unloaded symmetric cable pairs, providing groups or supergroups		-
G.322	1988-11-25	General characteristics recommended for systems on symmetric pair cables		In-force
G.325	1988-11-25	General characteristics recommended for systems providing 12 telephone carrier circuits on a symmetric cable pair [(12 + 12) systems]		In-force
		Carrier systems on 2.6/9.5 mm coaxial cable pairs		-
G.332	1988-11-25	12 MHz systems on standardized 2.6/9.5 mm coaxial cable pairs		In-force
G.333	1988-11-25	60 MHz systems on standardized 2.6/9.5 mm coaxial cable pairs		In-force
G.334	1988-11-25	18 MHz systems on standardized 2.6/9.5 mm coaxial cable pairs		In-force
		Carrier systems on 1.2/4.4 mm coaxial cable pairs		-
G.341	1988-11-25	1.3 MHz systems on standardized 1.2/4.4 mm coaxial cable pairs		In-force
G.343	1988-11-25	4 MHz systems on standardized 1.2/4.4 mm coaxial cable pairs		In-force
G.344	1988-11-25	6 MHz systems on standardized 1.2/4.4 mm coaxial cable pairs		In-force
G.345	1988-11-25	12 MHz systems on standardized 1.2/4.4 mm coaxial cable pairs		In-force
G.346	1988-11-25	18 MHz systems on standardized 1.2/4.4 mm coaxial cable pairs		In-force
		Additional Recommendations on cable systems		-
G.352	1988-11-25	Interconnection of coaxial carrier systems of different designs		In-force
		General characteristics of international carrier telephone systems on radio-relay or satellite links and interconnection with metallic lines		In-force
		General Recommendations		-
G.411	1988-11-25	Use of radio-relay systems for international telephone circuits	This Recommendation is an extract from CCIR Recommendation 335 (1986)	In-force
		Interconnection of radio-relay links with carrier systems on metallic lines		-
G.421	1988-11-25	Methods of interconnection		In-force
G.422	1988-11-25	Interconnection at audio-frequencies		In-force
G.423	1988-11-25	Interconnection at the baseband frequencies of frequency-division multiplex radio-relay systems		In-force
		Hypothetical reference circuits		-
G.431	1988-11-25	Hypothetical reference circuits for frequency-division multiplex radio-relay systems		In-force
		Circuit noise		-

Number	Approval date	Recommendation Title	Observation	Status
G.441	1988-11-25	Permissible circuit noise on frequency-division multiplex radio-relay systems		In-force
G.442	1988-11-25	Radio-relay system design objectives for noise at the far end of a hypothetical reference circuit with reference to telegraphy transmission		In-force
		Coordination of radiotelephony and line telephony		-
		Radiotelephone circuits		-
G.451	1988-11-25	Use of radio links in international telephone circuits		In-force
		Links with mobile stations		In-force
		Transmission media and optical systems characteristics		In-force
		General		-
G.601	1988-11-25	Terminology for cables		In-force
G.602	1988-11-25	Reliability and availability of analogue cable transmission systems and associated equipments		In-force
		Symmetric cable pairs		-
G.611	1988-11-25	Characteristics of symmetric cable pairs for analogue transmission		In-force
G.612	1988-11-25	Characteristics of symmetric cable pairs designed for the transmission of systems with bit rates of the order of 6 to 34 Mbit/s		In-force
G.613	1988-11-25	Characteristics of symmetric cable pairs usable wholly for the transmission of digital systems with a bit rate of up to 2 Mbit/s		In-force
G.614	1988-11-25	Characteristics of symmetric pair star-quad cables designed earlier for analogue transmission systems and being used now for digital system transmission at bit rates of 6 to 34 Mbit/s		In-force
		Land coaxial cable pairs		-
G.621	1988-11-25	Characteristics of 0.7/2.9 mm coaxial cable pairs		In-force
G.622	1988-11-25	Characteristics of 1.2/4.4 mm coaxial cable pairs		In-force
G.623	1988-11-25	Characteristics of 2.6/9.5 mm coaxial cable pairs		In-force
		Submarine cables		-
G.631	1988-11-25	Types of submarine cable to be used for systems with line frequencies of less than about 45 MHz		In-force
		Free space optical systems		In-force
G.640	2006-03-29	Co-location longitudinally compatible interfaces for free space optical systems		In-force
		Optical fibre cables		-
G.650.1	2010-07-29	Definitions and test methods for linear, deterministic attributes of single-mode fibre and cable		In-force

Number	Approval date	Recommendation Title	Observation	Status
G.650.1 (2010) Amd. 1	2012-10-29			Pre-published
G.650.2	2007-07-29	Definitions and test methods for statistical and non-linear related attributes of single-mode fibre and cable		In-force
G.650.3	2008-03-29	Test methods for installed single-mode optical fibre cable links		In-force
G.650.3 (2008) Amd. 1	2011-02-25			In-force
G.651.1	2007-07-29	Characteristics of a 50/125 µm multimode graded index optical fibre cable for the optical access network		In-force
G.651.1 (2007) Amd. 1	2008-12-12	New Appendix I - Historical perspective on the evolution of the specification of multimode optical fibre cable		In-force
G.652	2009-11-13	Characteristics of a single-mode optical fibre and cable		In-force
G.653	2010-07-29	Characteristics of a dispersion-shifted, single-mode optical fibre and cable		In-force
G.654	2012-10-29	Characteristics of a cut-off shifted single-mode optical fibre and cable		Pre-published
G.655	2009-11-13	Characteristics of a non-zero dispersion-shifted single-mode optical fibre and cable		In-force
G.656	2010-07-29	Characteristics of a fibre and cable with non-zero dispersion for wideband optical transport		In-force
G.657	2012-10-29	Characteristics of a bending-loss insensitive single-mode optical fibre and cable for the access network		Pre-published
		Characteristics of optical components and subsystems		In-force
G.661	2007-07-29	Definitions and test methods for the relevant generic parameters of optical amplifier devices and subsystems		In-force
G.662	2005-07-14	Generic characteristics of optical amplifier devices and subsystems		In-force
G.663	2011-04-13	Application-related aspects of optical amplifier devices and subsystems		In-force
G.664	2012-10-29	Optical safety procedures and requirements for optical transmission systems		Pre-published
G.665	2005-01-13	Generic characteristics of Raman amplifiers and Raman amplified subsystems		In-force
G.666	2011-02-25	Characteristics of polarization mode dispersion compensators and of receivers that compensate for polarization mode dispersion		In-force
G.667	2006-12-14	Characteristics of adaptive chromatic dispersion compensators		In-force
G.671	2012-02-13	Transmission characteristics of optical components and subsystems		In-force

Number	Approval date	Recommendation Title	Observation	Status
G.672	2012-10-29	Characteristics of multi-degree reconfigurable optical add/drop multiplexers		Pre-published
		Characteristics of optical systems		In-force
G.680	2007-07-29	Physical transfer functions of optical network elements		In-force
G.691	2006-03-29	Optical interfaces for single channel STM-64 and other SDH systems with optical amplifiers		In-force
G.692	1998-10-23	Optical interfaces for multichannel systems with optical amplifiers		In-force
G.692 (1998) Cor. 1	2000-01-07		Published as a covering note	In-force
G.692 (1998) Cor. 2	2002-06-13			In-force
G.692 (1998) Amd. 1	2005-01-13			In-force
G.693	2009-11-13	Optical interfaces for intra-office systems		In-force
G.694.1	2012-02-13	Spectral grids for WDM applications: DWDM frequency grid		In-force
G.694.2	2003-12-14	Spectral grids for WDM applications: CWDM wavelength grid		In-force
G.695	2010-10-22	Optical interfaces for coarse wavelength division multiplexing applications		In-force
G.696.1	2010-07-29	Longitudinally compatible intra-domain DWDM applications		In-force
G.697	2012-02-13	Optical monitoring for dense wavelength division multiplexing systems		In-force
G.698.1	2009-11-13	Multichannel DWDM applications with single-channel optical interfaces		In-force
G.698.2	2009-11-13	Amplified multichannel dense wavelength division multiplexing applications with single channel optical interfaces		In-force
G.698.3	2012-02-13	Multichannel seeded DWDM applications with single-channel optical interfaces		In-force
		Digital terminal equipments		-
		General		-
G.701	1993-03-12	Vocabulary of digital transmission and multiplexing, and pulse code modulation (PCM) terms		In-force
G.702	1988-11-25	Digital hierarchy bit rates		In-force
G.703 (2001) Erratum 1	2005-07-20			In-force
G.703	2001-11-29	Physical/electrical characteristics of hierarchical digital interfaces		In-force
G.703 (2001) Cor. 1	2008-03-29			In-force

Number	Approval date	Recommendation Title	Observation	Status
G.704	1998-10-13	Synchronous frame structures used at 1544, 6312, 2048, 8448 and 44 736 kbit/s hierarchical levels		In-force
G.705	2000-10-06	Characteristics of plesiochronous digital hierarchy (PDH) equipment functional blocks		In-force
G.706	1991-04-05	Frame alignment and cyclic redundancy check (CRC) procedures relating to basic frame structures defined in Recommendation G.704		In-force
G.707/Y.1322	2007-01-09	Network node interface for the synchronous digital hierarchy (SDH)	The published text of this Recommendation includes the modifications introduced by the Amendement 1 approved on 2007-07-29	In-force
G.707/Y.1322 (2007) Amd. 1	2007-07-29		Never published, directly consolidated with ITU-T G.707/Y.1322 (01/2007)	Pre-published
G.707/Y.1322 (2007) Amd. 2	2009-11-13			In-force
G.708	1999-07-02	Sub STM-0 network node interface for the synchronous digital hierarchy (SDH)		In-force
G.709/Y.1331	2012-02-13	Interfaces for the optical transport network	The published text of this Recommendation includes the modifications introduced by ITU-T G.709/Y.1331 (2012) Amd.1 (10/2012) and Cor.1 (10/2012).	In-force
G.709/Y.1331 (2012) Cor. 1	2012-10-29		This Corrigendum was never published, its content having been included in the published Rec. ITU-T G.709/Y.1331 (2012).	In-force
G.709/Y.1331 (2012) Amd. 1	2012-10-29		This Amendment was never published, its content having been included in the published Rec. ITU-T G.709/Y.1331 (2012).	In-force
		Coding of voice and audio signals		-
G.711	1988-11-25	Pulse code modulation (PCM) of voice frequencies	Corresponding ANSI-C code is available in the G.711 module of the ITU-T G.191 Software Tools Library	In-force
G.711 App. I	1999-09-30	A high quality low-complexity algorithm for packet loss concealment with G.711		In-force
G.711 App. II	2000-02-17	A comfort noise payload definition for ITU-T G.711 use in packet-based multimedia communication systems		In-force
G.711 (1988) Amd.1	2009-08-29	New Annex A on lossless encoding of PCM frames		In-force
G.711 (1988) Amd.2	2009-11-06	New Appendix III – Audio quality enhancement toolbox		In-force

Number	Approval date	Recommendation Title	Observation	Status
G.711.0	2009-09-22	Lossless compression of G.711 pulse code modulation		In-force
G.711.1	2012-09-13	Wideband embedded extension for ITU-T G.711 pulse code modulation		Pre-published
G.712	2001-11-29	Transmission performance characteristics of pulse code modulation channels		In-force
G.718	2008-06-13	Frame error robust narrow-band and wideband embedded variable bit-rate coding of speech and audio from 8-32 kbit/s	The published version includes Corrigendum 1 (11/2008), Amendment 1 (03/2009) and Corrigendum 2 (08/2009) that were never published separately.	In-force
G.718 (2008) Cor.1	2008-11-13	Corrections to fixed-point C-code	This Corrigendum affected only the software associated with the Rec. and was not published separately, but was included with the published version of the base document that was approved in June 2008.	In-force
G.718 (2008) Amd. 1	2009-03-16	Floating point annex plus corrections to fixed-point C-code and description text	Amendment 1 was not published separately, but integrated into the published version of the base document that was approved in June 2008.	In-force
G.718 (2008) Cor.2	2009-08-29	Corrections to text and to fixed-point and floating-point C-code	Corrigendum 2 was not published separately, but integrated into the published version of the base document that was approved in June 2008.	In-force
G.718 (2008) Amd.2	2010-03-29	New Annex B on superwideband scalable extension for ITU-T G.718 and corrections to main body fixed-point C-code and description text		In-force
G.718 (2008) Cor.3	2011-01-13	Corrections to text and C-code		In-force
G.719	2008-06-13	Low-complexity, full-band audio coding for high-quality, conversational applications	The published text of this Recommendation includes the modifications introduced by Rec. ITU-T G.719 (2008) Amend.1 and G.719 (2008) Amend.2.	In-force
G.719 (2008) Amd. 1	2008-11-13	New Annex A on storage format definitions for G.719, and new Annex B on a reference floating-point implementation for G.719	This amendment was never published, its content having been included in the published ITU-T Rec. G.719 (06/2008).	-

Number	Approval date	Recommendation Title	Observation	Status
G.719 (2008) Amd. 2	2009-03-16	New Annex C on G.719 packet format, capability identifiers and capability parameters	This amendment was never published, its content having been included in the published ITU-T Rec. G.719 (06/2008).	-
G.720	1995-07-10	Characterization of low-rate digital voice coder performance with non-voice signals		In-force
G.720.1	2010-01-13	Generic sound activity detector	Due to the large size of the test vectors for G.720.1 (2010/01), they are not available with this online package. However, they can be freely downloaded from the ITU-T Test Signals Database at: http://itu.int/net/ITU-T/sigdb/speaudio/Gseries.htm#G.720.1	In-force
G.720.1 (2010) Amd. 1	2010-10-29	New Annex A on generic voice activity detection	This amendment has been integrated into the ITU-T G.720.1 base text and is not published separately.	-
G.722	2012-09-13	7 kHz audio-coding within 64 kbit/s		Pre-published
G.722.1	2005-05-14	Low-complexity coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss	This Recommendation includes a software package which contains the encoder and decoder source code and a set of associated test vectors for developers. The fixed-point code implements both the 7 kHz mode (main body) and the 14 kHz mode (Annex C). The floa	In-force
G.722.1 (2005) Cor. 1	2008-06-13	Correction of Annex B source code	This corrigendum concerns only the software; the resulting release 2.1 had been included in the published ITU-T Recommendation G.722.1 (05/2005)	In-force
G.722.2	2003-07-29	Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB)		In-force
G.722.2 (2003) Erratum 1	2004-06-29		Applies to English version only	In-force
G.722.2 Annex A	2002-01-13	Comfort noise aspects		In-force
G.722.2 Annex B	2002-01-13	Source Controlled Rate operation		In-force
G.722.2 Annex B (2002) Erratum 1	2003-07-29		Published as a covering note	In-force

Number	Approval date	Recommendation Title	Observation	Status
G.722.2 Annex C	2008-11-13	Fixed-point C-code	This Annex includes an electronic attachment containing version 7.1.0 of the fixed-point C-code for the G.722.2 adaptive multi-rate wideband (AMR-WB) speech transcoder	In-force
G.722.2 Annex D	2003-07-29	Digital test sequences	This Annex includes an electronic attachment containing the digital test sequences for a bit-exact implementation of the G.722.2 adaptive multi-rate wideband (AMR-WB) speech transcoder, voice activity detection, comfort noise generation, and source contro	In-force
G.722.2 Annex E	2002-01-13	Frame structure		In-force
G.722.2 Annex E (2002) Cor. 1	2003-07-29		Published as a covering note	In-force
G.722.2 Annex F	2002-11-29	AMR-WB usage in H.245		In-force
G.722.2 App. I	2002-01-13	Error concealment of erroneous or lost frames		In-force
G.722.2 App. I (2002) Amd. 1	2003-07-29		Published as a covering note	In-force
G.722.2 (2003) Cor. 1	2005-09-13		The modifications introduced by this corrigendum are integrated in version 6.1.0 of the C-code attached to ITU-T G.722.2 Annex C (03/2004)	In-force
G.722.2 (2003) Cor. 2	2007-01-13		The modifications introduced by this corrigendum are integrated in version 6.1.0 of the C-code attached to ITU-T G.722.2 Annex C (03/2004)	In-force
G.723.1	2006-05-29	Dual rate speech coder for multimedia communications transmitting at 5.3 and 6.3 kbit/s	This Recommendation includes an electronic attachment which contains the test vectors and the C reference code for implementation verification of the G.723.1 fixed-point dual-rate speech coder for multimedia communications of the G.723.1 floating point sp	In-force

Number	Approval date	Recommendation Title	Observation	Status
G.724	1988-11-25	Characteristics of a 48-channel low bit rate encoding primary multiplex operating at 1544 kbit/s		In-force
G.725	1988-11-25	System aspects for the use of the 7 kHz audio codec within 64 kbit/s	For new implementations, refer to ITU-T Recommendations H.320, H.242 and H.230 dealing with audiovisual services	In-force
G.726 App. II test vectors	1991-03-21	Digital test sequences for the verification of the G.726 40, 32, 24 and 16 kbit/s ADPCM algorithm	This document corresponds to G.726 Appendix II. It includes 2 diskettes containing respectively the A-Law and Mu-Law digital test sequences for the verification of the G.726 ADPCM codec implementations. The document reproduces the user guide published in	In-force
G.726 App. III	1994-05-16	Comparison of ADPCM algorithms	This Appendix is published with the double number G.726 App. III and G.727 App. II	In-force
G.726 Annex A	1994-11-01	Extensions of Recommendation G.726 for use with uniform-quantized input and output		In-force
G.726 Annex B	2003-07-14	Packet format, capability identifier and capability parameters for H.245 signalling		In-force
G.726	1990-12-14	40, 32, 24, 16 kbit/s Adaptive Differential Pulse Code Modulation (ADPCM)	Corresponding ANSI-C code is available in the G.726 module of the ITU-T G.191 Software Tools Library	In-force
G.726 (1990) Cor. 1	2005-05-14	Correction to Annex A: Extensions of Recommendation G.726 for use with uniform-quantized input and output		In-force
G.727	1990-12-14	5-, 4-, 3- and 2-bit/sample embedded adaptive differential pulse code modulation (ADPCM)	Corresponding ANSI-C code is available in the G.727 module of the ITU-T G.191 Software Tools Library	In-force
G.727 App. I test vectors	1991-03-21	Digital test sequences for the verification of the G.727 5-, 4-, 3- and 2-bit/sample embedded ADPCM algorithm	This document corresponds to G.727 Appendix I. It includes 6 diskettes containing digital test sequences for the verification of the G.727 embedded ADPCM codec implementations. The document reproduces the user guide published in the CCITT collective lette	In-force
G.727 App. II	1994-05-16	Comparison of ADPCM algorithms	This Appendix is published with the double number G.726 App. III and G.727 App. II	In-force

Number	Approval date	Recommendation Title	Observation	Status
G.727 Annex A	1994-11-01	Extensions of Recommendation G.727 for use with uniform-quantized input and output		In-force
G.727 (1990) Cor. 1	2005-05-14	Correction to Annex A: Extensions of Recommendation G.727 for use with uniform-quantized input and output		In-force
G.728	2012-06-29	Coding of speech at 16 kbit/s using low-delay code excited linear prediction		Pre-published
G.729	2012-06-29	Coding of speech at 8 kbit/s using conjugate-structure algebraic-code-excited linear prediction (CS-ACELP)		Pre-published
G.729.1	2006-05-29	G.729-based embedded variable bit-rate coder: An 8-32 kbit/s scalable wideband coder bitstream interoperable with G.729	This edition includes the modifications introduced by G.729.1 (2006) Amd.1 approved on 13 January 2007 and G.729.1 (2006) Amd.2 approved on 13 February 2007. See G.729.1 (2006) Corrigendum 1 (2009) for the latest version of the ANSI C code for this item a	In-force
G.729.1 (2006) Amd. 1	2007-01-13	New Annex A on G.729.1 usage in H.245, plus corrections to the main body and updated test vectors	This amendment was never published, its content having been included in the published ITU-T Rec. G.729.1 (2006)	In-force
G.729.1 (2006) Amd. 2	2007-02-13	New Annex B on a reference floating-point implementation for G.729.1	This amendment was never published, its content having been included in the published ITU-T Rec. G.729.1 (2006)	In-force
G.729.1 (2006) Amd. 3	2007-08-29	Extension of the G.729.1 low-delay mode functionality to 14 kbit/s, and corrections to the main body and Annex B	See G.729.1 (2006) Corrigendum 1 (2009) for the latest version of the ANSI C code for this item	-
G.729.1 (2006) Amd. 4	2008-06-29	New Annex C (DTX/CNG scheme) plus corrections to main body and Annex B	See G.729.1 (2006) Corrigendum 1 (2009) for the latest version of the ANSI C code for this item	In-force
G.729.1 (2006) Amd. 5	2008-12-07	New Annex D (Reference floating-point implementation for G.729.1 Annex C DTX/CNG) and corrections to the main body and Annex B	See G.729.1 (2006) Corrigendum 1 (2009) for the latest version of the ANSI C code for this item	In-force
G.729.1 (2006) Cor.1	2009-08-29	Corrections to source code	This Corrigendum contains the latest ANSI C source code (Release 1.5) for G.729.1 (2006) and its Amendments 1 (2007), 2 (2007), 3 (2007), 4 (2008) and 5 (2008)	In-force
G.729.1 (2006) Amd. 6	2010-03-29	New Annex E on superwideband scalable extension		In-force
G.729.1 (2006) Amd. 7	2012-02-29	New Annex F with voice activity detector using ITU-T G.720.1 Annex A		In-force

Number	Approval date	Recommendation Title	Observation	Status
		Principal characteristics of primary multiplex equipment		-
G.731	1988-11-25	Primary PCM multiplex equipment for voice frequencies		In-force
G.732	1988-11-25	Characteristics of primary PCM multiplex equipment operating at 2048 kbit/s		In-force
G.733	1988-11-25	Characteristics of primary PCM multiplex equipment operating at 1544 kbit/s		In-force
G.734	1988-11-25	Characteristics of synchronous digital multiplex equipment operating at 1544 kbit/s		In-force
G.735	1988-11-25	Characteristics of primary PCM multiplex equipment operating at 2048 kbit/s and offering synchronous digital access at 384 kbit/s and/or 64 kbit/s		In-force
G.736	1993-03-12	Characteristics of a synchronous digital multiplex equipment operating at 2048 kbit/s		In-force
G.737	1988-11-25	Characteristics of an external access equipment operating at 2048 kbit/s offering synchronous digital access at 384 kbit/s and/or 64 kbit/s		In-force
G.738	1988-11-25	Characteristics of primary PCM multiplex equipment operating at 2048 kbit/s and offering synchronous digital access at 320 kbit/s and/or 64 kbit/s		In-force
G.739	1988-11-25	Characteristics of an external access equipment operating at 2048 kbit/s offering synchronous digital access at 320 kbit/s and/or 64 kbit/s		In-force
		Principal characteristics of second order multiplex equipment		-
G.741	1988-11-25	General considerations on second order multiplex equipments		In-force
G.742	1988-11-25	Second order digital multiplex equipment operating at 8448 kbit/s and using positive justification		In-force
G.743	1988-11-25	Second order digital multiplex equipment operating at 6312 kbit/s and using positive justification		In-force
G.744	1988-11-25	Second order PCM multiplex equipment operating at 8448 kbit/s		In-force
G.745	1988-11-25	Second order digital multiplex equipment operating at 8448 kbit/s and using positive/zero/negative justification		In-force
G.746	1988-11-25	Characteristics of second order PCM multiplex equipment operating at 6312 kbit/s		In-force
G.747	1988-11-25	Second order digital multiplex equipment operating at 6312 kbit/s and multiplexing three tributaries at 2048 kbit/s		In-force
		Principal characteristics of higher order multiplex equipment		-

Number	Approval date	Recommendation Title	Observation	Status
G.751	1988-11-25	Digital multiplex equipments operating at the third order bit rate of 34 368 kbit/s and the fourth order bit rate of 139 264 kbit/s and using positive justification		In-force
G.752	1988-11-25	Characteristics of digital multiplex equipments based on a second order bit rate of 6312 kbit/s and using positive justification		In-force
G.753	1988-11-25	Third order digital multiplex equipment operating at 34 368 kbit/s and using positive/zero/negative justification		In-force
G.754	1988-11-25	Fourth order digital multiplex equipment operating at 139 264 kbit/s and using positive/zero/negative justification		In-force
G.755	1988-11-25	Digital multiplex equipment operating at 139 264 kbit/s and multiplexing three tributaries at 44 736 kbit/s		In-force
		Principal characteristics of transcoder and digital multiplication equipment		-
G.761	1988-11-25	General characteristics of a 60-channel transcoder equipment		In-force
G.762	1988-11-25	General characteristics of a 48-channel transcoder equipment		In-force
G.763	1998-10-13	Digital circuit multiplication equipment using G.726 ADPCM and digital speech interpolation	This Recommendation includes two diskettes The first one contains A-Law and Mu-Law test vectors for DCME verification. The second one contains example transmit/receive SDLs	In-force
G.763 (1998) Erratum 1	2000-05-25			In-force
G.763 (1998) Cor. 1	2009-03-16	Corrections		In-force
G.764	1990-12-14	Voice packetization – Packetized voice protocols		In-force
G.764 App. I	1995-11-13	Packetization guide		In-force
G.765	1992-09-01	Packet circuit multiplication equipment		In-force
G.765 App. I	1995-11-13	A guide to PCME		In-force
G.766	1996-11-11	Facsimile demodulation/remodulation for digital circuit multiplication equipment		In-force
G.767	1998-10-13	Digital circuit multiplication equipment using 16 kbit/s LD-CELP, digital speech interpolation and facsimile demodulation/remodulation		In-force
G.767 (1998) Cor. 1	2006-05-29			In-force
G.768	2001-03-15	Digital circuit multiplication equipment using 8 kbit/s CS-ACELP		In-force

Number	Approval date	Recommendation Title	Observation	Status
G.769/Y.1242	2004-06-13	Circuit multiplication equipment optimized for IP-based networks		In-force
		Operations, administration and maintenance features of transmission equipment		-
G.772	1993-03-12	Protected monitoring points provided on digital transmission systems		In-force
G.773	1993-03-12	Protocol suites for Q-interfaces for management of transmission systems		In-force
G.774	2001-02-09	Synchronous digital hierarchy (SDH) – Management information model for the network element view		In-force
G.774.1	2001-02-09	Synchronous digital hierarchy (SDH) – Bidirectional performance monitoring for the network element view		In-force
G.774.2	2001-02-09	Synchronous digital hierarchy (SDH) – Configuration of the payload structure for the network element view		In-force
G.774.3	2001-02-09	Synchronous digital hierarchy (SDH) – Management of multiplex-section protection for the network element view		In-force
G.774.4	2001-02-09	Synchronous digital hierarchy (SDH) – Management of the subnetwork connection protection for the network element view		In-force
G.774.5	2001-02-09	Synchronous digital hierarchy (SDH) – Management of connection supervision functionality (HCS/LCS) for the network element view		In-force
G.774.6	2001-02-09	Synchronous digital hierarchy (SDH) – Unidirectional performance monitoring for the network element view		In-force
G.774.7	2001-02-09	Synchronous digital hierarchy (SDH) – Management of lower order path trace and interface labelling for the network element view		In-force
G.774.8	2001-02-09	Synchronous digital hierarchy (SDH) – Management of radio-relay systems for the network element view		In-force
G.774.9	2001-02-09	Synchronous digital hierarchy (SDH) – Configuration of linear multiplex-section protection for the network element view		In-force
G.774.10	2001-02-09	Synchronous digital hierarchy (SDH) – Multiplex Section (MS) shared protection ring management for the network element view		In-force
G.775	1998-10-13	Loss of Signal (LOS), Alarm Indication Signal (AIS) and Remote Defect Indication (RDI) defect detection and clearance criteria for PDH signals		In-force
G.776.1	1998-10-23	Managed objects for signal processing network elements	This Recommendation includes 1 diskette containing the information model of Signal Processing Network Elements (SPNE)	In-force

Number	Approval date	Recommendation Title	Observation	Status
G.776.1 (1998) Cor. 1	2007-02-13			In-force
G.776.2	2008-06-13	SPNE mechanisms/auxiliary functions		In-force
G.776.3	2000-04-04	ADPCM DCME configuration map report		In-force
		Principal characteristics of multiplexing equipment for the synchronous digital hierarchy		-
G.780/Y.1351	2010-07-29	Terms and definitions for synchronous digital hierarchy (SDH) networks		In-force
G.781	2008-09-22	Synchronization layer functions		In-force
G.781 (2008) Cor.1	2009-11-13			In-force
G.783 (2006) Erratum 1	2006-11-13		Applies to English version only	In-force
G.783	2006-03-29	Characteristics of synchronous digital hierarchy (SDH) equipment functional blocks		In-force
G.783 (2006) Amd. 1	2008-05-22			In-force
G.783 (2006) Amd. 2	2010-03-09	Support for optical modules transporting 40 Gigabit/s signals via a multilane interface		In-force
G.783 (2006) Amd. 3	2012-02-13			In-force
G.784	2008-03-29	Management aspects of synchronous digital hierarchy (SDH) transport network elements		In-force
G.785	1996-11-11	Characteristics of a flexible multiplexer in a synchronous digital hierarchy environment		In-force
		Other terminal equipment		-
G.791	1988-11-25	General considerations on transmultiplexing equipments		In-force
G.792	1988-11-25	Characteristics common to all transmultiplexing equipments		In-force
G.793	1988-11-25	Characteristics of 60-channel transmultiplexing equipments		In-force
G.794	1988-11-25	Characteristics of 24-channel transmultiplexing equipments		In-force
G.795	1988-11-25	Characteristics of codecs for FDM assemblies		In-force
G.796	1992-09-01	Characteristics of a 64 kbit/s cross-connect equipment with 2048 kbit/s access ports		In-force
G.796 (1992) Cor. 1	1998-10-13			In-force
G.797	1996-03-20	Characteristics of a flexible multiplexer in a plesiochronous digital hierarchy environment		In-force
G.798	2012-12-22	Characteristics of optical transport network hierarchy equipment functional blocks		-

Number	Approval date	Recommendation Title	Observation	Status
G.798.1	2013-01-13	Types and characteristics of optical transport network equipment		-
G.799.1/Y.1451.1	2004-06-13	Functionality and interface specifications for GSTN transport network equipment for interconnecting GSTN and IP networks		In-force
G.799.2	2009-12-14	Mechanism for dynamic coordination of signal processing functions		In-force
G.799.3	2011-05-14	Signal processing functionality and performance of an IP-to-IP voice gateway optimized for the transport of voice and voiceband data		In-force
		Digital networks		-
		General aspects		-
G.800	2012-02-13	Unified functional architecture of transport networks		In-force
G.801	1988-11-25	Digital transmission models		In-force
G.802	1988-11-25	Interworking between networks based on different digital hierarchies and speech encoding laws		In-force
G.803	2000-03-10	Architecture of transport networks based on the synchronous digital hierarchy (SDH)		In-force
G.803 (2000) Amd. 1	2005-06-29			In-force
G.804	2004-06-13	ATM cell mapping into plesiochronous digital hierarchy (PDH)		In-force
G.805	2000-03-10	Generic functional architecture of transport networks		In-force
G.806	2012-02-13	Characteristics of transport equipment – Description methodology and generic functionality		In-force
G.806 (2012) Cor. 1	2012-10-29			-
G.808.1	2010-02-22	Generic protection switching – Linear trail and subnetwork protection		In-force
G.808.1 (2010) Amd. 1	2012-08-06			Pre-published
G.808.1 (2010) Amd. 2	2012-09-21	New Appendix VII - Solution for service protection in dynamic bandwidth networks		Pre-published
G.808.3	2012-10-29	Generic protection switching - Shared Mesh Protection		-
G.809	2003-03-22	Functional architecture of connectionless layer networks		In-force
		Design objectives for digital networks		-
G.810	1996-08-27	Definitions and terminology for synchronization networks		In-force

Number	Approval date	Recommendation Title	Observation	Status
G.810 (1996) Cor. 1	2001-10-26		This Technical Corrigendum applies to the English version only and is published as a covering note	In-force
G.811	1997-09-19	Timing characteristics of primary reference clocks		In-force
G.812	2004-06-13	Timing requirements of slave clocks suitable for use as node clocks in synchronization networks	The typo corrected by G.812 (2004) Erratum 1 is included in the electronic version of this Recommendation	In-force
G.812 (2004) Erratum 1	2005-03-30		Applies to English version only. The change introduced by this erratum is already included in G.812 (2004)	In-force
G.813	2003-03-16	Timing characteristics of SDH equipment slave clocks (SEC)		In-force
G.813 (2003) Cor. 1	2005-06-29			In-force
		Quality and availability targets		-
G.820/I.351 /Y.1501	2004-07-29	Relationships among ISDN, IP-based network and physical layer performance Recommendations	Formerly ITU-T Rec. I.351/Y.801/Y.1501	In-force
G.821	2002-12-14	Error performance of an international digital connection operating at a bit rate below the primary rate and forming part of an Integrated Services Digital Network		In-force
G.822	1988-11-25	Controlled slip rate objectives on an international digital connection		In-force
G.823	2000-03-10	The control of jitter and wander within digital networks which are based on the 2048 kbit/s hierarchy		In-force
G.824	2000-03-10	The control of jitter and wander within digital networks which are based on the 1544 kbit/s hierarchy		In-force
G.825	2000-03-10	The control of jitter and wander within digital networks which are based on the synchronous digital hierarchy (SDH)		In-force
G.825 (2000) Erratum 1	2001-08-13			In-force
G.825 (2000) Amd. 1	2008-05-22			In-force
G.826	2002-12-14	End-to-end error performance parameters and objectives for international, constant bit-rate digital paths and connections		In-force
G.827	2003-09-13	Availability performance parameters and objectives for end-to-end international constant bit-rate digital paths		In-force
G.828	2000-03-10	Error performance parameters and objectives for international, constant bit-rate synchronous digital paths		In-force

Number	Approval date	Recommendation Title	Observation	Status
G.828 (2000) Cor. 1	2001-07-13			In-force
G.829	2002-12-14	Error performance events for SDH multiplex and regenerator sections		In-force
G.829 (2002) Cor. 1	2007-07-29			In-force
		Network capabilities and functions		-
G.831	2000-03-10	Management capabilities of transport networks based on the synchronous digital hierarchy (SDH)		In-force
G.832	1998-10-13	Transport of SDH elements on PDH networks – Frame and multiplexing structures		In-force
G.832 (1998) Amd. 1	2004-06-13	Payload type code for virtual concatenation of 34368 kbit/s signals		In-force
		SDH network characteristics		-
G.841	1998-10-13	Types and characteristics of SDH network protection architectures		In-force
G.841 (1998) Cor. 1	2002-08-16			In-force
G.842	1997-04-08	Interworking of SDH network protection architectures		In-force
		Management of transport network		-
G.851.1	1996-11-11	Management of the transport network – Application of the RM-ODP framework		In-force
G.852.1	1996-11-11	Enterprise viewpoint for simple subnetwork connection management		In-force
G.852.2	1999-03-26	Enterprise viewpoint description of transport network resource model		In-force
G.852.3	1999-03-26	Enterprise viewpoint for topology management		In-force
G.852.6	1999-03-26	Enterprise viewpoint for trail management		In-force
G.852.8	1999-03-26	Enterprise viewpoint for pre-provisioned adaptation management		In-force
G.852.10	1999-03-26	Enterprise viewpoint for pre-provisioned link connection management		In-force
G.852.12	1999-03-26	Enterprise viewpoint for pre-provisioned link management		In-force
G.852.16	2001-01-19	Enterprise viewpoint for pre-provisioned route discovery		In-force
G.853.1	1999-03-26	Common elements of the information viewpoint for the management of a transport network		In-force
G.853.2	1996-11-11	Subnetwork connection management information viewpoint		In-force
G.853.3	1999-03-26	Information viewpoint for topology management		In-force
G.853.6	1999-03-26	Information viewpoint for trail management		In-force

Number	Approval date	Recommendation Title	Observation	Status
G.853.8	1999-03-26	Information viewpoint for pre-provisioned adaptation management		In-force
G.853.10	1999-03-26	Information viewpoint for pre-provisioned link connection management		In-force
G.853.12	1999-03-26	Information viewpoint for pre-provisioned link management		In-force
G.853.16	2001-01-19	Information viewpoint for pre-provisioned route discovery		In-force
G.854.1	1996-11-11	Computational interfaces for basic transport network model		In-force
G.854.3	1999-03-26	Computational viewpoint for topology management		In-force
G.854.6	1999-03-26	Computational viewpoint for trail management		In-force
G.854.8	1999-03-26	Computational viewpoint for pre-provisioned adaptation management		In-force
G.854.10	1999-03-26	Computational viewpoint for pre-provisioned link connection management		In-force
G.854.12	1999-03-26	Computational viewpoint for pre-provisioned link management		In-force
G.854.16	2001-01-19	Computational viewpoint for pre-provisioned route discovery		In-force
G.855.1	1999-03-26	GDMO engineering viewpoint for the generic network level model		In-force
		SDH radio and satellite systems integration		-
G.861	1996-08-27	Principles and guidelines for the integration of satellite and radio systems in SDH transport networks		In-force
		Optical transport networks		-
G.870/Y.1352	2012-10-29	Terms and definitions for optical transport networks		Pre-published
G.871/Y.1301	2000-10-06	Framework of Optical Transport Network Recommendations	This Recommendation is published with the double number G.871 and Y.1301	In-force
G.872	2012-10-29	Architecture of optical transport networks		Pre-published
G.873.1	2011-07-22	Optical Transport Network (OTN): Linear protection		In-force
G.873.1 (2011) Amd. 1	2012-10-29			-
G.873.2	2012-04-22	ODUk shared ring protection		Pre-published
G.873.2 (2012) Amd.1	2012-10-29			Pre-published
G.874	2010-07-29	Management aspects of optical transport network elements		In-force
G.874 (2010) Cor. 1	2011-06-06			In-force
G.874 (2010) Amd. 1	2012-04-06			In-force

Number	Approval date	Recommendation Title	Observation	Status
G.874 (2010) Amd. 2	2012-10-29			Pre-published
G.874.1	2012-10-29	Optical transport network (OTN): Protocol-neutral management information model for the network element view		Pre-published
		Digital sections and digital line system		-
		General		-
G.901	1988-11-25	General considerations on digital sections and digital line systems		In-force
G.902	1995-11-02	Framework Recommendation on functional access networks (AN) – Architecture and functions, access types, management and service node aspects		In-force
		Parameters for optical fibre cable systems		-
G.911	1997-04-08	Parameters and calculation methodologies for reliability and availability of fibre optic systems		In-force
		Digital sections at hierarchical bit rates based on a bit rate of 2048 kbit/s		-
G.921	1988-11-25	Digital sections based on the 2048 kbit/s hierarchy		In-force
		Digital line transmission systems on cable at non-hierarchical bit rates		-
		Digital line systems provided by FDM transmission bearers		-
G.941	1988-11-25	Digital line systems provided by FDM transmission bearers		In-force
		Digital line systems		-
G.950	1988-11-25	General considerations on digital line systems		In-force
G.951	1988-11-25	Digital line systems based on the 1544 kbit/s hierarchy on symmetric pair cables		In-force
G.952	1988-11-25	Digital line systems based on the 2048 kbit/s hierarchy on symmetric pair cables		In-force
G.953	1988-11-25	Digital line systems based on the 1544 kbit/s hierarchy on coaxial pair cables		In-force
G.954	1988-11-25	Digital line systems based on the 2048 kbit/s hierarchy on coaxial pair cables		In-force
G.955	1996-11-11	Digital line systems based on the 1544 kbit/s and the 2048 kbit/s hierarchy on optical fibre cables		In-force
G.957	2006-03-29	Optical interfaces for equipments and systems relating to the synchronous digital hierarchy		In-force
G.959.1	2012-02-13	Optical transport network physical layer interfaces		In-force
		Digital section and digital transmission systems for customer access to ISDN		-
G.960	1993-03-12	Access digital section for ISDN basic rate access		In-force
G.961	1993-03-12	Digital transmission system on metallic local lines for ISDN basic rate access		In-force

Number	Approval date	Recommendation Title	Observation	Status
G.961 (1993) Erratum 1	2000-08-01			In-force
G.962	1993-03-12	Access digital section for ISDN primary rate at 2048 kbit/s		In-force
G.962 (1993) Amd. 1	1997-06-20	Maintenance channel		In-force
G.963	1993-03-12	Access digital section for ISDN primary rate at 1544 kbit/s		In-force
G.964	2001-03-01	V-Interfaces at the digital local exchange (LE) – V5.1 interface (based on 2048 kbit/s) for the support of access network (AN)		In-force
G.965	2001-03-01	V-interfaces at the digital local exchange (LE) – V5.2 interface (based on 2048 kbit/s) for the support of access network (AN)		In-force
G.966	1999-02-26	Access digital section for B-ISDN		In-force
G.967		V-interfaces at the service node (SN)		-
G.967.1	1998-06-01	VB5.1 reference point specification	This Recommendation includes one diskette containing the SDL process diagrams corresponding to the VB5.1 reference point	In-force
G.967.2	1999-02-26	VB5.2 reference point specification	This Recommendation includes one diskette containing the SDL process diagrams corresponding to the VB5.2 reference point	In-force
G.967.3	2000-03-10	Protocol implementation conformance statements for interfaces at VB5 reference points		In-force
		Optical fibre submarine cable systems		-
G.971	2010-07-29	General features of optical fibre submarine cable systems		In-force
G.972	2011-09-06	Definition of terms relevant to optical fibre submarine cable systems		In-force
G.973	2010-07-29	Characteristics of repeaterless optical fibre submarine cable systems		In-force
G.973.1	2009-11-13	Longitudinally compatible DWDM applications for repeaterless optical fibre submarine cable systems		In-force
G.973.2	2011-04-13	Multichannel DWDM applications with single channel optical interfaces for repeaterless optical fibre submarine cable systems		In-force
G.974	2007-07-29	Characteristics of regenerative optical fibre submarine cable systems		In-force
G.975	2000-10-06	Forward error correction for submarine systems		In-force
G.975.1	2004-02-22	Forward error correction for high bit-rate DWDM submarine systems		In-force
G.975.1 (2004) Cor. 1	2006-02-17			In-force

Number	Approval date	Recommendation Title	Observation	Status
G.976	2010-07-29	Test methods applicable to optical fibre submarine cable systems		In-force
G.977	2011-04-13	Characteristics of optically amplified optical fibre submarine cable systems		In-force
G.978	2010-07-29	Characteristics of optical fibre submarine cables		In-force
G.979	2012-10-29	Characteristics of monitoring systems for optical submarine cable systems		Pre-published
		Optical line systems for local and access networks		In-force
G.981	1994-01-20	PDH optical line systems for the local network		In-force
G.982	1996-11-11	Optical access networks to support services up to the ISDN primary rate or equivalent bit rates		In-force
G.983.1	2005-01-13	Broadband optical access systems based on Passive Optical Networks (PON)		In-force
G.983.1 (2005) Erratum 1	2006-03-16		Applies to English version only	In-force
G.983.1 (2005) Amd. 1	2005-05-27	PICS for OLT and ONU	Published in English only	In-force
G.983.2	2005-07-14	ONT management and control interface specification for B-PON	This edition incorporates the material of ITU-T Recs G.983.6 (2002), G.983.7 (2001), G.983.8 (2003), G.983.9 (2004) and G.983.10 (2004) and replaces them	In-force
G.983.2 (2005) Erratum 1	2006-06-01			In-force
G.983.2 (2005) Amd. 1	2006-03-29	Omnibus improvements for OMCI		In-force
G.983.2 (2005) Amd. 2	2007-01-13			In-force
G.983.3	2001-03-15	A broadband optical access system with increased service capability by wavelength allocation		In-force
G.983.3 (2001) Amd. 1	2002-06-13			In-force
G.983.3 (2001) Amd. 2	2005-07-14			In-force
G.983.4	2001-11-29	A broadband optical access system with increased service capability using dynamic bandwidth assignment		In-force
G.983.4 (2001) Amd. 1	2003-12-14	New Annex A – Performance monitoring parameters		In-force

Number	Approval date	Recommendation Title	Observation	Status
G.983.4 (2001) Cor. 1	2005-01-13			In-force
G.983.5	2002-01-06	A broadband optical access system with enhanced survivability		In-force
G.984.1	2008-03-29	Gigabit-capable passive optical networks (GPON): General characteristics		In-force
G.984.1 (2008) Amd.1	2009-10-09			In-force
G.984.1 (2008) Amd.2	2012-04-22			In-force
G.984.2	2003-03-16	Gigabit-capable Passive Optical Networks (G-PON): Physical Media Dependent (PMD) layer specification		In-force
G.984.2 (2003) Amd. 1	2006-02-17	New Appendix III – Industry best practice for 2.488 Gbit/s downstream, 1.244 Gbit/s upstream G-PON		In-force
G.984.2 (2003) Amd. 2	2008-03-29			In-force
G.984.3	2008-03-29	Gigabit-capable Passive Optical Networks (G-PON): Transmission convergence layer specification		In-force
G.984.3 (2008) Erratum 1	2010-04-28			In-force
G.984.3 (2008) Amd. 1	2009-02-13	Specification of the ONU registration method and various clarifications		In-force
G.984.3 (2008) Amd. 2	2009-11-13	Time-of-day distribution and maintenance updates and clarifications		In-force
G.984.3 (2008) Amd. 3	2012-04-22			In-force
G.984.4	2008-02-22	Gigabit-capable passive optical networks (G-PON): ONT management and control interface specification		In-force
G.984.4 (2008) Erratum 1	2009-08-12			In-force
G.984.4 (2008) Amd. 1	2009-06-06			In-force
G.984.4 (2008) Amd. 2	2009-11-13	Changes and extensions to the OMCI, editorial clarifications and corrections		In-force
G.984.4 (2008) Cor.1	2010-03-01			In-force

Number	Approval date	Recommendation Title	Observation	Status
G.984.4 (2008) Amd. 3	2010-07-29	Clarification of scope of application		In-force
G.984.5	2007-09-22	Gigabit-capable Passive Optical Networks (G-PON): Enhancement band		In-force
G.984.5 (2007) Amd.1	2009-10-09			In-force
G.984.6	2008-03-29	Gigabit-capable passive optical networks (GPON): Reach extension		In-force
G.984.6 (2008) Amd. 1	2009-11-13	Wavelength-converting, continuous mode, and 1:N-protected range extenders		In-force
G.984.6 (2008) Amd. 2	2012-05-07			In-force
G.984.7	2010-07-29	Gigabit-capable passive optical networks (GPON): Long reach		In-force
G.985	2003-03-16	100 Mbit/s point-to-point Ethernet based optical access system		In-force
G.985 (2003) Cor. 1	2005-01-13			In-force
G.985 (2003) Amd. 1	2009-01-13	Silent start function of optical network terminals		In-force
G.986	2010-01-13	1 Gbit/s point-to-point Ethernet-based optical access system		In-force
G.987	2012-06-13	10-Gigabit-capable passive optical network (XG-PON) systems: Definitions, abbreviations and acronyms		In-force
G.987.1	2010-01-13	10-Gigabit-capable passive optical networks (XG-PON): General requirements		In-force
G.987.1 (2010) Amd. 1	2012-04-22			In-force
G.987.2	2010-10-07	10-Gigabit-capable passive optical networks (XG-PON): Physical media dependent (PMD) layer specification		In-force
G.987.2 (2010) Amd. 1	2012-02-13			In-force
G.987.3	2010-10-07	10-Gigabit-capable passive optical networks (XG-PON): Transmission convergence (TC) layer specification		In-force
G.987.3 (2010) Amd. 1	2012-06-22			Pre-published
G.987.4	2012-06-06	10-Gigabit-capable passive optical networks (XG-PON): Reach extension		Pre-published
G.988	2012-10-29	ONU management and control interface (OMCI) specification		Pre-published
		Access networks		In-force

Number	Approval date	Recommendation Title	Observation	Status
G.991.1	1998-10-13	High bit rate digital subscriber line (HDSL) transceivers		In-force
G.991.2	2003-12-14	Single-pair high-speed digital subscriber line (SHDSL) transceivers		In-force
G.991.2 (2003) Erratum 1	2005-04-14		Applies to English version only	In-force
G.991.2 (2003) Amd. 1	2004-07-22			In-force
G.991.2 (2003) Amd. 2	2005-02-22			In-force
G.991.2 (2003) Amd. 2 Erratum 1	2005-11-22		Applies to English version only	In-force
G.991.2 (2003) Amd. 3	2005-09-06			In-force
G.992.1	1999-07-02	Asymmetric digital subscriber line (ADSL) transceivers		In-force
G.992.1 Annex H	2000-10-06	Specific requirements for a synchronized symmetrical DSL (SSDSL) system operating in the same cable binder as ISDN as defined in ITU-T G.961 Appendix III		In-force
G.992.1 (1999) Cor. 1	2001-11-29			In-force
G.992.1 (1999) Cor. 2	2002-07-29		The changes introduced by this corrigendum are included in G.992.1 (1999) Amendment 1	In-force
G.992.1 (1999) Amd. 1	2003-03-16	Revised Annex C, new Annex I and new Appendix V	This amendment includes the changes introduced by G.992.1 (1999) Corrigendum 2 and by G.992.1 (1999) Amend.1/Cor.1 (12/2003)	In-force
G.992.1 (1999) Amd. 1/Cor. 1	2003-12-14		Never published, directly consolidated in Amend.1 to G.992.1 (1999)	Pre-published
G.992.2	1999-07-02	Splitterless asymmetric digital subscriber line (ADSL) transceivers		In-force
G.992.2 (1999) Cor. 1	2002-07-29		The content of this corrigendum has been incorporated in Amendment 1 (2003)	In-force
G.992.2 (1999) Amd. 1	2003-03-16	Revised Annex C	This Amendment includes the changes introduced by Corrigendum 1 (2002)	In-force

Number	Approval date	Recommendation Title	Observation	Status
G.992.2 (1999) Amd. 2	2003-10-31	New Appendix IV: Example overlapped PSD masks for use in a TCM-ISDN crosstalk environment		In-force
G.992.3	2009-04-22	Asymmetric digital subscriber line transceivers 2 (ADSL2)	Due to its complexity, this Recommendation is published in two files, one containing the core Recommendation and its annexes except Annex C, and the second containing Annex C showing its variations relative to the core text	In-force
G.992.3 (2009) Cor. 1	2009-11-13			In-force
G.992.3 (2009) Amd. 1	2010-03-01	Channel initialization policies		In-force
G.992.3 (2009) Amd. 2	2010-07-29	Retrain on eoc protocol timeout		In-force
G.992.3 (2009) Amd. 3	2010-11-29	Scale factor for downstream transmitter referred virtual noise, and corrigenda		In-force
G.992.3 (2009) Cor. 2	2011-06-22			In-force
G.992.3 (2009) Amd. 4	2011-10-29			In-force
G.992.3 (2009) Amd. 5	2012-10-29			Pre-published
G.992.4	2002-07-29	Splitterless asymmetric digital subscriber line transceivers 2 (splitterless ADSL2)		In-force
G.992.5	2009-01-13	Asymmetric digital subscriber line 2 transceivers (ADSL2)– Extended bandwidth ADSL2 (ADSL2plus)	Due to its complexity, this Recommendation is published in two files, one containing the core Recommendation and its annexes except Annex C, and the second containing Annex C. Both files show their variations relative to the corresponding parts of ITU-T G	In-force
G.992.5 (2009) Cor. 1	2010-11-29	Upstream optional D0 values		In-force
G.993.1	2004-06-13	Very high speed digital subscriber line transceivers (VDSL)		In-force

Number	Approval date	Recommendation Title	Observation	Status
G.993.2	2011-12-16	Very high speed digital subscriber line transceivers 2 (VDSL2)	The published text of this Recommendation includes the modifications introduced by ITU-T G.993. 2 (2011) Amd.1 (04/2012).	In-force
G.993.2 (2011) Erratum 1	2012-09-18			In-force
G.993.2 (2011) Amd. 1	2012-04-06		This Amendment was never published, its content having been included in the published Rec. ITU-T G.993. 2 (2011).	Pre-published
G.993.2 (2011) Cor. 1	2012-06-13			In-force
G.993.2 (2011) Amd. 2	2012-12-07			-
G.993.5	2010-04-22	Self-FEXT cancellation (vectoring) for use with VDSL2 transceivers		In-force
G.993.5 (2010) Cor. 1	2011-06-22			In-force
G.993.5 (2010) Amd. 1	2011-12-16			In-force
G.993.5 (2010) Cor. 2	2012-06-13			In-force
G.993.5 (2010) Amd.2	2012-10-29			-
G.994.1	2012-06-13	Handshake procedures for digital subscriber line transceivers	The published text of this Recommendation includes the modifications introduced by ITU-T G. 994.1 (2012) Amd.1 (10/2012).	In-force
G.994.1 (2012) Amd.1	2012-10-29		This Amendment was never published, its content having been included in the published Rec. ITU-T G. 994.1 (2012).	Pre-published
G.996.1	2001-02-09	Test procedures for digital subscriber line (DSL) transceivers		In-force
G.996.1 (2001) Erratum 1	2003-01-31			In-force
G.996.1 (2001) Amd. 1	2003-03-16	New Annex B		In-force

Number	Approval date	Recommendation Title	Observation	Status
G.996.2	2009-05-22	Single-ended line testing for digital subscriber lines (DSL)	This Recommendation includes the annexes E and F introduced by Amendment 1 (10/2009)	In-force
G.996.2 (2009) Amd. 1	2009-10-09	New annexes E and F	This amendment was never published, its content having been included in the published ITU-T Rec. G.996.2 (2009)	In-force
G.996.2 (2009) Amd. 2	2012-04-06			In-force
G.997.1	2012-06-13	Physical layer management for digital subscriber line transceivers		In-force
G.997.1 (2012) Amd. 1	2012-12-07			-
G.998.1	2005-01-13	ATM-based multi-pair bonding		In-force
G.998.2	2005-01-13	Ethernet-based multi-pair bonding		In-force
G.998.2 (2005) Amd. 1	2006-12-14			In-force
G.998.2 (2005) Amd. 2	2007-12-07			In-force
G.998.3 (2005) Erratum 1	2005-08-11		Applies to English version only	In-force
G.998.3	2005-01-13	Multi-pair bonding using time-division inverse multiplexing		In-force
G.998.4	2010-06-11	Improved impulse noise protection for DSL transceivers	The published text of this Recommendation includes the modifications introduced by ITU-T G.998.4 (2010) Cor.1 (11/2010).	In-force
G.998.4 (2010) Cor. 1	2010-11-29	Clarification of the definition of actual INP	This Corrigendum was never published, its content having been included in the published Rec. ITU-T G.998.4 (2010).	Pre-published
G.998.4 (2010) Cor. 2	2011-04-13			In-force
G.998.4 (2010) Amd. 1	2011-06-22			In-force
G.998.4 (2010) Cor. 3	2011-12-16			In-force
G.998.4 (2010) Amd. 2	2012-04-06			In-force

Number	Approval date	Recommendation Title	Observation	Status
G.998.4 (2010) Cor. 4	2012-06-13			In-force
G.999.1	2009-10-09	Interface between the link layer and the physical layer for digital subscriber line (DSL) transceivers		In-force
G.999.1 (2009) Cor. 1	2010-04-22			In-force
		Multimedia Quality of Service and performance – Generic and user-related aspects		In-force
G.1000	2001-11-29	Communications Quality of Service: A framework and definitions		In-force
G.1010	2001-11-29	End-user multimedia QoS categories		In-force
G.1011	2010-06-29	Reference guide to quality of experience assessment methodologies		In-force
G.1020	2006-07-14	Performance parameter definitions for quality of speech and other voiceband applications utilizing IP networks		In-force
G.1021	2012-07-14	Buffer models for development of client performance metrics		Pre-published
G.1030	2005-11-29	Estimating end-to-end performance in IP networks for data applications		In-force
G.1040	2006-02-22	Network contribution to transaction time		In-force
G.1040 (2006) Amd. 1	2007-10-11	New Appendix I – Network contribution to SIP set-up time		In-force
G.1050	2011-03-01	Network model for evaluating multimedia transmission performance over Internet Protocol	Due to its data volume, the electronic attachment containing the simulator output is downloadable free of charge from ITU-T test signals database at: "http://www.itu.int/net/itu-t/sigdb/speaudio/AudioForm-s.aspx?val=1111050 ".	In-force
G.1070	2012-07-14	Opinion model for video-telephony applications		In-force
G.1080	2008-12-07	Quality of experience requirements for IPTV services		In-force
G.1081	2008-10-22	Performance monitoring points for IPTV		In-force
G.1082	2009-04-29	Measurement-based methods for improving the robustness of IPTV performance		In-force
		Data over Transport – Generic aspects		-
		General		-
G.7041/Y.1303	2011-04-13	Generic framing procedure		In-force
G.7041/Y.1303 (2011) Amd. 1	2012-02-13			In-force

Number	Approval date	Recommendation Title	Observation	Status
G.7041/Y.1303 (2011) Amd. 2	2012-10-29			-
G.7042/Y.1305	2006-03-29	Link capacity adjustment scheme (LCAS) for virtual concatenated signals		In-force
G.7043/Y.1343	2004-07-22	Virtual concatenation of plesiochronous digital hierarchy (PDH) signals		In-force
G.7043/Y.1343 (2004) Amd. 1	2005-01-13			In-force
G.7043/Y.1343 (2004) Cor. 1	2006-12-14			In-force
G.7044/Y.1347	2011-10-29	Hitless adjustment of ODUflex(GFP)	The published text of this Recommendation includes the modifications introduced by ITU-T G.7044/Y.1347 (2011) Amd.1 (02/2012).	In-force
G.7044/Y.1347 (2011) Amd. 1	2012-02-13		This Amendment was never published, its content having been included in the published Rec. ITU-T G.7044/Y.1347 (2011).	Pre-published
		Transport network control aspects		-
G.7710/Y.1701	2012-02-13	Common equipment management function requirements		In-force
G.7712/Y.1703	2010-09-06	Architecture and specification of data communication network		In-force
G.7713/Y.1704	2009-11-13	Distributed call and connection management (DCM)		In-force
G.7713.1/Y.1704.1	2003-03-16	Distributed Call and Connection Management (DCM) based on PNNI		In-force
G.7713.2/Y.1704.2	2003-03-16	Distributed Call and Connection Management: Signalling mechanism using GMPLS RSVP-TE		In-force
G.7713.3/Y.1704.3	2003-03-16	Distributed Call and Connection Management: Signalling mechanism using GMPLS CR-LDP		In-force
G.7714/Y.1705	2005-08-22	Generalized automatic discovery for transport entities		In-force
G.7714/Y.1705 (2005) Amd. 1	2012-02-13			In-force
G.7714.1/Y.1705.1	2010-09-06	Protocol for automatic discovery in SDH and OTN networks		In-force
G.7715/Y.1706	2002-06-13	Architecture and requirements for routing in the automatically switched optical networks		In-force
G.7715/Y.1706 (2002) Amd. 1	2007-02-06			In-force
G.7715.1/Y.1706.1	2004-02-22	ASON routing architecture and requirements for link state protocols		In-force

Number	Approval date	Recommendation Title	Observation	Status
G.7715.2/Y.1706.2	2007-02-06	ASON routing architecture and requirements for remote route query		In-force
G.7716/Y.1707	2010-01-13	Architecture of control plane operations		In-force
G.7718/Y.1709	2010-07-29	Framework for ASON management		In-force
G.7718.1/Y.1709.1	2006-12-14	Protocol-neutral management information model for the control plane view		In-force
		Packet over Transport aspects		In-force
		Ethernet over Transport aspects		In-force
G.8001/Y.1354	2012-10-29	Terms and definitions for Ethernet frames over transport		Pre-published
G.8010/Y.1306 (2004) Erratum 2	2007-10-25			In-force
G.8010/Y.1306 (2004) Erratum 1	2007-09-20			In-force
G.8010/Y.1306	2004-02-22	Architecture of Ethernet layer networks		In-force
G.8010/Y.1306 (2004) Amd. 1	2006-05-22			In-force
G.8010/Y.1306 (2004) Amd. 2	2010-07-29	Application of the ITU-T G.800 functional architecture to Ethernet transport and some editorial revisions.		In-force
G.8011/Y.1307	2012-10-29	Ethernet service characteristics		Pre-published
G.8011.1/Y.1307.1	2009-01-13	Ethernet private line service		In-force
G.8011.2/Y.1307.2	2009-01-13	Ethernet virtual private line service		In-force
G.8011.3/Y.1307.3	2010-02-06	Ethernet virtual private LAN service		In-force
G.8011.4/Y.1307.4	2010-02-06	Ethernet virtual private rooted multipoint service		In-force
G.8011.5/Y.1307.5	2010-02-06	Ethernet private LAN service		In-force
G.8012/Y.1308	2004-08-22	Ethernet UNI and Ethernet NNI		In-force
G.8012/Y.1308 (2004) Amd. 1	2006-05-07			In-force
G.8012.1/Y.1308.1	2012-12-22	Interfaces for the ethernet transport network		-
G.8013/Y.1731	2011-07-22	OAM functions and mechanisms for Ethernet based networks		In-force
G.8013/Y.1731 (2011) Cor. 1	2011-10-29			In-force

Number	Approval date	Recommendation Title	Observation	Status
G.8013/Y.1731 (2011) Amd. 1	2012-05-07			In-force
G.8021/Y.1341	2012-05-07	Characteristics of Ethernet transport network equipment functional blocks		In-force
G.8021/Y.1341 (2012) Amd.1	2012-10-29			-
G.8021.1/Y.1341.1	2012-10-29	Types and characteristics of ethernet transport network equipment		Pre-published
G.8031/Y.1342	2011-06-22	Ethernet linear protection switching	The published version also includes the material approved in Corrigendum 1 (02/2012).	In-force
G.8031/Y.1342 (2011) Cor. 1	2012-02-13		This Corrigendum was never published separately; its contents were included in the published version of the base Recommendation approved in 06/2011.	Pre-published
G.8032/Y.1344	2012-02-13	Ethernet ring protection switching		In-force
G.8040/Y.1340	2005-09-06	GFP frame mapping into Plesiochronous Digital Hierarchy (PDH)		In-force
G.8051/Y.1345	2009-11-13	Management aspects of the Ethernet-over-Transport (EoT) capable network element		In-force
G.8051/Y.1345 (2009) Amd. 1	2011-06-06			In-force
G.8080/Y.1304	2012-02-13	Architecture for the automatically switched optical network		In-force
G.8081/Y.1353	2012-02-13	Terms and definitions for automatically switched optical networks		In-force
		MPLS over Transport aspects		-
G.8101/Y.1355	2012-10-29	Terms and definitions for MPLS transport profile		-
G.8110/Y.1370	2005-01-13	MPLS layer network architecture		In-force
G.8110.1/Y.1370.1 (2011) Erratum 1	2012-09-06			In-force
G.8110.1/Y.1370.1	2011-12-16	Architecture of the Multi-Protocol Label Switching transport profile layer network	This edition of ITU-T G.8110.1/Y.1370.1 includes the changes introduced by Erratum 1 (09/2012).	In-force
G.8112/Y.1371	2012-10-29	Interfaces for the MPLS Transport Profile (MPLS-TP) layer network		-
G.8113.1/Y.1372.1	2012-11-20	Operations, administration and maintenance mechanism for MPLS-TP in packet transport networks		Pre-published

Number	Approval date	Recommendation Title	Observation	Status
G.8113.2/Y.1372.2	2012-11-20	Operations, administration and maintenance mechanisms for MPLS-TP networks using the tools defined for MPLS		Pre-published
G.8121/Y.1381	2012-09-21	Characteristics of MPLS-TP network equipment functional blocks		Pre-published
G.8121/Y.1381 (2012) Amd. 1	2012-12-22			-
G.8131/Y.1382	2007-02-06	Linear protection switching for transport MPLS (T-MPLS) networks	The next update of this Recommendation will only describe MPLS-TP and will include normative references to the MPLS-TP RFCs under development to meet ITU-T transport requirements	In-force
G.8131/Y.1382 (2007) Amd. 1	2007-09-22			In-force
G.8151/Y.1374	2012-07-22	Management aspects of the MPLS-TP network element		Pre-published
G.8151/Y.1374 (2012) Amd. 1	2012-10-29			Pre-published
		Quality and availability targets		-
G.8201	2011-04-13	Error performance parameters and objectives for multi-operator international paths within optical transport networks		In-force
G.8251	2010-09-22	The control of jitter and wander within the optical transport network (OTN)		In-force
G.8251 (2010) Amd. 1	2011-04-13			In-force
G.8251 (2010) Cor. 1	2012-02-13			In-force
G.8251 (2010) Amd. 2	2012-02-13			In-force
G.8251 (2010) Amd. 3	2012-10-29			Pre-published
G.8260	2012-02-13	Definitions and terminology for synchronization in packet networks		In-force
G.8261/Y.1361	2008-04-29	Timing and synchronization aspects in packet networks		In-force
G.8261/Y.1361 (2008) Amd. 1	2010-07-29	Network jitter limits for the synchronous Ethernet equipment clock interface and other clarifications		In-force
G.8261.1/Y.1361.1	2012-02-13	Packet delay variation network limits applicable to packet-based methods (Frequency synchronization)		In-force

Number	Approval date	Recommendation Title	Observation	Status
G.8262/Y.1362	2010-07-29	Timing characteristics of a synchronous Ethernet equipment slave clock		In-force
G.8262/Y.1362 (2010) Amd. 1	2012-02-13			In-force
G.8262/Y.1362 (2010) Amd. 2	2012-10-29			In-force
G.8263/Y.1363	2012-02-13	Timing characteristics of packet-based equipment clocks		In-force
G.8264/Y.1364	2008-10-29	Distribution of timing information through packet networks		In-force
G.8264/Y.1364 (2008) Cor. 1	2009-11-13			In-force
G.8264/Y.1364 (2008) Amd. 1	2010-09-22	Use of synchronous Ethernet in a multi-operator context		In-force
G.8264/Y.1364 (2008) Cor. 2	2012-02-13			In-force
G.8264/Y.1364 (2008) Amd. 2	2012-02-13			In-force
G.8265/Y.1365	2010-10-07	Architecture and requirements for packet-based frequency delivery		In-force
G.8265.1/Y.1365.1	2010-10-07	Precision time protocol telecom profile for frequency synchronization		In-force
G.8265.1/Y.1365.1 (2010) Amd. 1	2011-04-13			In-force
G.8265.1/Y.1365.1 (2010) Amd. 2	2012-10-29			Pre-published
G.8271/Y.1366	2012-02-13	Time and phase synchronization aspects of packet networks		In-force
G.8272/Y.1367	2012-10-29	Timing characteristics of primary reference time clocks		Pre-published
		Service Management		-
G.8601/Y.1391	2006-06-06	Architecture of service management in multi-bearer, multi-carrier environment		In-force
		Access networks		-
		In premises networks		-
G.9901	2012-11-20	Narrowband orthogonal frequency division multiplexing power line communication transceivers - Power spectral density specification		In-force
G.9902	2012-10-29	Narrowband orthogonal frequency division multiplexing power line communication transceivers for ITU-T G.hnem networks		In-force

Number	Approval date	Recommendation Title	Observation	Status
G.9903	2012-10-29	Narrowband orthogonal frequency division multiplexing power line communication transceivers for G3-PLC networks		In-force
G.9904	2012-10-29	Narrowband orthogonal frequency division multiplexing power line communication transceivers for PRIME networks		In-force
G.9951	2001-02-09	Phoneline networking transceivers – Foundation	This text was first approved and published as ITU-T Rec. G.989.1 and then renumbered as G.9951 on 2005-05-27 without further modification	In-force
G.9952	2001-11-29	Phoneline networking transceivers – Payload format and link layer requirements	This text was first approved and published as ITU-T Rec. G.989.2 and then renumbered as G.9952 on 2005-05-27 without further modification	In-force
G.9953	2003-03-16	Phoneline networking transceivers – Isolation function	This text was first approved and published as ITU-T Rec. G.989.3 and then renumbered as G.9953 on 2005-05-27 without further modification	In-force
G.9954	2007-01-09	Home networking transceivers – Enhanced physical, media access, and link layer specifications		In-force
G.9955	2011-12-16	Narrow-band OFDM power line communication transceivers - Physical layer specification		Pre-published
G.9955 (2011) Amd. 1	2012-09-21			Pre-published
G.9956	2011-11-06	Narrow-band OFDM power line communication transceivers – Data link layer specification		Pre-published
G.9956 (2011) Cor. 1	2012-09-21			Pre-published
G.9956 (2011) Amd. 1	2012-10-29			-
G.9959	2012-02-13	Short range narrow-band digital radiocommunication transceivers – PHY and MAC layer specifications		In-force
G.9960	2011-12-16	Unified high-speed wireline-based home networking transceivers - System architecture and physical layer specification	This edition of ITU-T G.9960 includes the changes introduced by Erratum 1 (07/2012) and Erratum 2 (09/2012).	In-force
G.9960 (2011) Erratum 1	2012-07-26			In-force

Number	Approval date	Recommendation Title	Observation	Status
G.9960 (2011) Erratum 2	2012-09-13			In-force
G.9961	2010-06-11	Unified high-speed wire-line based home networking transceivers - Data link layer specification		In-force
G.9961 (2010) Cor. 1	2011-12-16			In-force
G.9961 (2010) Amd. 1	2012-09-21			Pre-published
G.9963	2011-12-16	Unified high-speed wireline-based home networking transceivers - Multiple input/multiple output specification		In-force
G.9964	2011-12-16	Unified high-speed wireline-based home networking transceivers – Power spectral density specification		In-force
G.9970	2009-01-13	Generic home network transport architecture		In-force
G.9971	2010-07-29	Requirements of transport functions in IP home networks		In-force
G.9972	2010-06-11	Coexistence mechanism for wireline home networking transceivers		In-force
G.9973	2011-10-29	Protocol for identifying home network topology		In-force
G.9980	2012-11-23	Remote management of customer premises equipment over broadband networks - customer premises equipment WAN management protocol		Pre-published
		Supplements to the Series G Recommendations		-
G Suppl. 4	1972-12-15	Certain methods of avoiding the transmission of excessive noise between interconnected systems		-
G Suppl. 5	1984-10-19	Measurement of the load of telephone circuits under field conditions		In-force
G Suppl. 7	1972-12-15	Loss-frequency response of channel-translating equipment used in some countries for international circuits		-
G Suppl. 8	1972-12-15	Method proposed by the Belgian telephone administration for interconnection between coaxial and symmetric pair systems		-
G Suppl. 17	1984-10-19	Group-delay distortion performance of terminal equipment		In-force
G Suppl. 19	1984-10-19	Digital crosstalk measurement (method used by the Administrations of France, the Netherlands and Spain)		In-force
G Suppl. 22	1984-10-19	Mathematical models of multiplex signals		In-force
G Suppl. 26	1984-10-19	Estimating the signal load margin of FDM wideband amplifier equipment and transmission systems		In-force

Number	Approval date	Recommendation Title	Observation	Status
G Suppl. 27	1984-10-19	Interference from external sources	This Supplement is published as G.500 series supplement in Red Book fascicle III.2 and as G.900 series supplement in Red Book fascicle III.3	In-force
G Suppl. 28	1984-10-19	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		In-force
G Suppl. 29	1993-03-12	Planning of mixed analogue-digital circuits (chains, connections)		In-force
G Suppl. 32	1988-11-25	Transfer of alarm information on 60-channel transmultiplexing equipment		-
G Suppl. 34	1988-11-25	Temperature in underground containers for the installation of repeaters		In-force
G Suppl. 35	1988-11-25	Guidelines concerning the measurement of wander		In-force
G Suppl. 36	1988-11-25	Jitter and wander accumulation in digital networks		In-force
G Suppl. 37	1998-10-13	ITU-T Recommendation G.763 digital circuit multiplication equipment (DCME) tutorial and dimensioning		In-force
G Suppl. 38	1998-10-13	Variable bit rate calculations for the ITU-T Recommendation G.767 Digital Circuit Multiplication Equipment (DCME)		In-force
G Suppl. 39	2012-09-21	Optical system design and engineering considerations		Pre-published
G Suppl. 40	2010-06-11	Optical fibre and cable Recommendations and standards guideline		In-force
G Suppl. 41	2010-06-11	Design guidelines for optical fibre submarine cable systems		In-force
G Suppl. 42	2011-02-25	Guide on the use of the ITU-T Recommendations related to optical fibres and systems technology		In-force
G Suppl. 43	2011-02-25	Transport of IEEE 10GBASE-R in optical transport networks (OTN)		In-force
G Suppl. 44	2007-06-15	Test plan to verify B-PON interoperability		In-force
G Suppl. 45	2009-05-15	GPON power conservation		In-force
G Suppl. 46	2009-05-15	G-PON interoperability test plan between optical line terminations and optical network units		In-force
G Suppl. 47	2012-09-21	General aspects of optical fibres and cables		Pre-published
G Suppl. 48	2010-06-11	10-Gigabit-capable passive optical networks: Interface between media access control with serializer/deserializer and physical medium dependent sublayers		In-force
G Suppl. 49	2011-02-25	Rogue optical network unit (ONU) considerations		In-force
G Suppl. 50	2011-09-16	Overview of digital subscriber line Recommendations		In-force
G Suppl. 51	2012-05-11	Passive optical network protection considerations		In-force

Number	Approval date	Recommendation Title	Observation	Status
G Suppl. 52	2012-09-21	Ethernet ring protection switching		Pre-published
G-100 series Suppl. 31	1993-03-12	Principles of determining an impedance strategy for the local network		In-force
G-100 series Suppl. 32	1993-03-12	Transmission aspects of digital mobile radio systems		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series H : Audiovisual and multimedia systems				
		Characteristics of visual telephone systems		-
H.100	1988-11-25	Visual telephone systems		In-force
H.110	1988-11-25	Hypothetical reference connections for videoconferencing using primary digital group transmission		In-force
H.120	1993-03-12	Codecs for videoconferencing using primary digital group transmission		In-force
H.130	1988-11-25	Frame structures for use in the international interconnection of digital codecs for videoconferencing or visual telephony		In-force
H.140	1988-11-25	A multipoint international videoconference system		In-force
		Infrastructure of audiovisual services		-
		General		In-force
H.200	1993-03-12	Framework for Recommendations for audiovisual services		In-force
		Transmission multiplexing and synchronization		-
H.221	2009-03-16	Frame structure for a 64 to 1920 kbit/s channel in audiovisual teleservices		In-force
H.222.0	2012-06-29	Information technology – Generic coding of moving pictures and associated audio information: Systems		Pre-published
H.222.1	1996-03-20	Multimedia multiplex and synchronization for audiovisual communication in ATM environments		In-force
H.223	2001-07-29	Multiplexing protocol for low bit rate multimedia communication		In-force
H.224	2005-01-08	A real time control protocol for simplex applications using the H.221 LSD/HSD/MLP channels		In-force
H.224 (2005) Cor. 1	2007-08-29	Corrections to the CME client list message		In-force
H.225.0 v7	2009-12-14	Call signalling protocols and media stream packetization for packet-based multimedia communication systems		In-force
H.226	1998-09-25	Channel aggregation protocol for multilink operation on circuit-switched networks		In-force
		Systems aspects		In-force
H.230	2009-03-16	Frame-synchronous control and indication signals for audiovisual systems		In-force
H.231	1997-07-11	Multipoint control units for audiovisual systems using digital channels up to 1920 kbit/s		In-force
H.233	2002-11-29	Confidentiality system for audiovisual services		In-force
H.234	2002-11-29	Encryption key management and authentication system for audiovisual services		In-force

Number	Approval date	Recommendation Title	Observation	Status
H.235.0	2005-09-13	H.323 security: Framework for security in H-series (H.323 and other H.245-based) multimedia systems	ITU-T Rec. H.235 (2003) content was reorganized into H.235.0 to .7 when revised in 2005. The map can be found in Appendices IV, V, and VI of H.235.0 (2005)	In-force
H.235.1	2005-09-13	H.323 security: Baseline security profile	ITU-T Rec. H.235 (2003) content was reorganized into H.235.0 to .7 when revised in 2005. The map can be found in Appendices IV, V, and VI of H.235.0 (2005)	In-force
H.235.2	2005-09-13	H.323 security: Signature security profile	ITU-T Rec. H.235 (2003) content was reorganized into H.235.0 to .7 when revised in 2005. The map can be found in Appendices IV, V, and VI of H.235.0 (2005)	In-force
H.235.3	2005-09-13	H.323 security: Hybrid security profile	ITU-T Rec. H.235 (2003) content was reorganized into H.235.0 to .7 when revised in 2005. The map can be found in Appendices IV, V, and VI of H.235.0 (2005)	In-force
H.235.4	2005-09-13	H.323 security: Direct and selective routed call security	ITU-T Rec. H.235 (2003) content was reorganized into H.235.0 to .7 when revised in 2005. The map can be found in Appendices IV, V, and VI of H.235.0 (2005)	In-force
H.235.5	2005-09-13	H.323 security: Framework for secure authentication in RAS using weak shared secrets	ITU-T Rec. H.235 (2003) content was reorganized into H.235.0 to .7 when revised in 2005. The map can be found in Appendices IV, V, and VI of H.235.0 (2005)	In-force
H.235.6	2009-03-16	H.323 security: Voice encryption profile with native H.235/H.245 key management	The published text of this Recommendation includes the modifications introduced by H.235.6 (2005) Amend.1 approved on 2008-06-13	In-force
H.235.6 (2009) Erratum 1	2013-02-07			In-force
H.235.7	2005-09-13	H.323 security: Usage of the MIKEY key management protocol for the Secure Real Time Transport Protocol (SRTP) within H.235	ITU-T Rec. H.235 (2003) content was reorganized into H.235.0 to .7 when revised in 2005. The map can be found in Appendices IV, V, and VI of H.235.0 (2005)	In-force
H.235.7 (2005) Erratum 1	2006-10-05			In-force

Number	Approval date	Recommendation Title	Observation	Status
H.235.8	2005-09-13	H.323 security: Key exchange for SRTP using secure signalling channels		In-force
H.235.9	2005-09-13	H.323 security: Security gateway support for H.323		In-force
H.239 (2005) Erratum 1	2006-01-18			In-force
H.239	2005-09-13	Role management and additional media channels for H.300-series terminals		In-force
		Communication procedures		-
H.241	2012-02-29	Extended video procedures and control signals for ITU-T H.300-series terminals		In-force
H.241 (2012) Amd. 1	2012-06-29	Support for Constrained High, Scalable Constrained Baseline and Scalable Constrained High ITU-T H.264 profiles		Pre-published
H.242	2009-03-16	System for establishing communication between audiovisual terminals using digital channels up to 2 Mbit/s		In-force
H.243	2005-10-07	Procedures for establishing communication between three or more audiovisual terminals using digital channels up to 1920 kbit/s		In-force
H.244	1995-07-10	Synchronized aggregation of multiple 64 or 56 kbit/s channels		In-force
H.245 v16	2011-05-14	Control protocol for multimedia communication		In-force
H.246	2006-05-29	Interworking of H-series multimedia terminals with H-series multimedia terminals and voice/voiceband terminals on GSTN, ISDN and PLMN		In-force
H.246 (2006) Amd. 1	2007-01-13	Mapping of user priority level and country/international network of call origination between H.225 and ISUP		In-force
H.247	1998-09-25	Multipoint extension for broadband audiovisual communication systems and terminals		In-force
H.248.1 v3	2005-09-13	Gateway control protocol: Version 3		In-force
H.248.1 v3 (2005) Amd. 1	2008-05-02	Corrections and clarifications		In-force
H.248.1 v3 (2005) Amd. 2	2009-12-14	New Appendix IV, plus corrections and clarifications		In-force
H.248.2	2005-01-08	Gateway control protocol: Facsimile, text conversation and call discrimination packages		In-force
H.248.2 (2005) Amd. 1	2007-01-13	Discriminated call type enhancement		In-force
H.248.3	2000-11-17	Gateway control protocol: User interface elements and actions packages	This Recommendation was first approved as Annex G to H.248, and then renumbered and published as H.248.3 on 2002-03-29 without further modification	In-force

Number	Approval date	Recommendation Title	Observation	Status
H.248.3 (2000) Cor. 1	2004-03-15			In-force
H.248.4	2009-12-14	Gateway control protocol: Transport over Stream Control Transmission Protocol (SCTP)		In-force
H.248.5	2009-12-14	Gateway control protocol: Transport over ATM		In-force
H.248.6	2000-11-17	Gateway control protocol: Dynamic Tone Definition package	This Recommendation was first approved as Annex J to H.248, and then renumbered and published as H.248.6 on 2002-03-29 without further modification	In-force
H.248.7	2004-03-15	Gateway control protocol: Generic Announcement package	This text was approved as Corrigendum 1 to H.248.7 (2000), but due to the number of modifications, it was decided to publish it as a new edition	In-force
H.248.8	2007-08-29	Gateway control protocol: Error code and service change reason description		In-force
H.248.9	2009-12-14	Gateway control protocol: Advanced media server packages		In-force
H.248.10	2001-07-29	Gateway control protocol: Media gateway resource congestion handling package	This Recommendation was first approved as Annex M2 to H.248, and then renumbered and republished as H.248.10 on 2002-03-29 without further modification	In-force
H.248.11	2002-11-29	Gateway control protocol: Media gateway overload control package		In-force
H.248.11 (2002) Cor. 1	2008-06-13	Clarifying MG_overload event relationship with ADD commands		In-force
H.248.12	2012-02-13	Gateway control protocol: ITU-T H.248.1 packages for ITU-T H.323 and ITU-T H.324 interworking		In-force
H.248.13	2002-03-29	Gateway control protocol: Quality Alert Ceasing package	Drafted as H.248 Annex M5, renumbered and published as H.248.13	In-force
H.248.14	2009-03-16	Gateway control protocol: Inactivity timer package		In-force
H.248.15	2002-03-29	Gateway control protocol: SDP H.248 package attribute	Drafted as H.248 Annex N, renumbered and published as H.248.15	In-force
H.248.16	2002-11-29	Gateway control protocol: Enhanced digit collection packages and procedures		In-force
H.248.16 (2002) Cor. 1	2004-03-15			In-force
H.248.17	2002-11-29	Gateway control protocol: Line test packages		In-force

Number	Approval date	Recommendation Title	Observation	Status
H.248.17 (2002) Cor. 1	2004-03-15			In-force
H.248.18	2002-11-29	Gateway control protocol: Package for support of multiple profiles		In-force
H.248.19	2004-03-15	Gateway control protocol: Decomposed multipoint control unit, audio, video and data conferencing packages		In-force
H.248.19 (2004) Amd. 1	2006-05-29	New Text Overlay package and Border and Background package		In-force
H.248.19 (2004) Amd. 2	2009-03-16	Floor control enhancements		In-force
H.248.20	2002-11-29	Gateway control protocol: The use of local and remote descriptors with H.221 and H.223 multiplexing		In-force
H.248.21	2004-03-15	Gateway control protocol: Semi-permanent connection handling package		In-force
H.248.22 (2003) Erratum 1	2004-01-12			In-force
H.248.22	2003-07-14	Gateway control protocol: Shared Risk Group package		In-force
H.248.23	2005-01-08	Gateway control protocol: Enhanced Alerting packages		In-force
H.248.23 (2005) Cor. 1	2006-05-29	Clarifications regarding dwa signal in the andisp package		In-force
H.248.24	2003-07-14	Gateway control protocol: Multi-frequency tone generation and detection packages		In-force
H.248.25	2007-01-13	Gateway control protocol: Basic CAS packages		In-force
H.248.26	2005-01-08	Gateway control protocol: Enhanced analogue lines packages		In-force
H.248.27	2003-07-14	Gateway control protocol: Supplemental tones packages		In-force
H.248.28	2007-01-13	Gateway control protocol: International CAS packages		In-force
H.248.29	2005-01-08	Gateway control protocol: International CAS compelled register signalling packages		In-force
H.248.29 (2005) Cor. 1	2007-08-29	Correction of figures in Annex A		In-force
H.248.30	2007-01-13	Gateway control protocol: RTCP extended performance metrics packages		In-force
H.248.30 (2007) Erratum 1	2007-06-14		Applies to English version only	In-force
H.248.31	2004-04-22	Gateway control protocol: Adaptive jitter buffer package		In-force
H.248.32	2005-01-08	Gateway control protocol: Detailed congestion reporting package		In-force

Number	Approval date	Recommendation Title	Observation	Status
H.248.33	2005-01-08	Gateway control protocol: PCM frame spare bit package		In-force
H.248.34	2012-02-13	Gateway control protocol: Stimulus analogue line package		In-force
H.248.35	2005-01-08	Gateway control protocol: Coin-operated phone control package		In-force
H.248.36	2005-09-13	Gateway control protocol: Hanging Termination Detection package		In-force
H.248.37	2008-06-13	Gateway control protocol: IP NAPT traversal package		In-force
H.248.38	2006-05-29	Gateway control protocol: Base context package		In-force
H.248.39	2006-05-29	Gateway control protocol: H.248 SDP parameter identification and wildcarding		In-force
H.248.40	2007-01-13	Gateway control protocol: Application data inactivity detection package		In-force
H.248.41	2006-05-29	Gateway control protocol: IP domain connection package		In-force
H.248.41 (2006) Amd. 1	2008-06-13	IP realm availability package		In-force
H.248.42	2009-03-16	Gateway control protocol: DCME interworking package		In-force
H.248.43	2008-06-13	Gateway control protocol: Packages for gate management and gate control		In-force
H.248.44	2007-01-13	Gateway control protocol: Multi-level precedence and pre-emption package		In-force
H.248.45	2006-05-29	Gateway control protocol: MGC information package		In-force
H.248.46	2007-01-13	Gateway control protocol: Connection capability control package		In-force
H.248.46 (2007) Erratum 1	2007-08-15			In-force
H.248.47	2008-07-22	Gateway control protocol: Statistic conditional reporting package		In-force
H.248.48	2012-02-13	Gateway control protocol: RTCP XR block reporting package		In-force
H.248.49	2007-08-29	Gateway control protocol: Session description protocol RFC and capabilities packages		In-force
H.248.50	2010-09-13	Gateway control protocol: NAT traversal toolkit packages		In-force
H.248.50 (2010) Cor. 1	2012-02-13	Corrections and clarification		In-force
H.248.51	2007-08-29	Gateway control protocol: Termination connection model package		In-force

Number	Approval date	Recommendation Title	Observation	Status
H.248.52	2008-06-13	Gateway control protocol: QoS support packages	The published text of this Recommendation includes the modifications introduced by ITU-T H.248.52 (2008) Amend.1 approved on 2009-03-16.	In-force
H.248.52 (2008) Amd. 1	2009-03-16	Clarifications and updates to the differentiated services package	This Amendment was never published, its content having been included in the published Rec. ITU-T H.248.52 (06/2008).	-
H.248.53	2009-03-16	Gateway control protocol: Traffic management packages		In-force
H.248.54	2007-08-29	Gateway control protocol: MPLS support package		In-force
H.248.55	2008-06-13	Gateway control protocol: Generic pull mode package		In-force
H.248.56	2007-08-29	Gateway control protocol: Packages for virtual private network support		In-force
H.248.56 (2007) Cor. 1	2009-03-16	VLAN package clarifications		In-force
H.248.57	2008-06-13	Gateway control protocol: RTP control protocol package		In-force
H.248.58	2008-06-13	Gateway control protocol: Packages for application level H.248 statistics		In-force
H.248.59	2007-08-29	Gateway control protocol: Event timestamp notification package		In-force
H.248.60	2009-03-16	Gateway control protocol: Identification of content of communication		In-force
H.248.61	2009-03-16	Gateway control protocol: Packages for network level H.248 statistics		In-force
H.248.62	2008-06-13	Gateway control protocol: Re-answer package		In-force
H.248.63	2009-03-16	Gateway control protocol: Resource management packages		In-force
H.248.64	2009-12-14	Gateway control protocol: IP router packages		In-force
H.248.65	2009-03-16	Gateway control protocol: Support of the resource reservation protocol		In-force
H.248.67	2009-12-14	Gateway control protocol: Transport mode indication package		In-force
H.248.68	2009-03-16	Gateway control protocol: Package for removal of digits and tones		In-force
H.248.69	2009-03-16	Gateway control protocol: Packages for interworking between MSRP and H.248		In-force
H.248.70	2009-03-16	Gateway control protocol: Dialling method information packages		In-force
H.248.71	2010-02-13	Gateway control protocol: RTCP support packages		In-force
H.248.72	2009-12-14	Gateway control protocol: ITU-T H.248 support for media-oriented negotiation acceleration (MONA)		In-force

Number	Approval date	Recommendation Title	Observation	Status
H.248.73	2010-09-13	Gateway control protocol: Packages for media server control markup language and ITU-T H.248 interworking		In-force
H.248.75	2011-05-14	Gateway control protocol: Package identifier publishing and application package		In-force
H.248.76	2010-09-13	Gateway control protocol: Filter group package and guidelines		In-force
H.248.77	2010-09-13	Gateway control protocol: Secure real-time transport protocol (SRTP) package and procedures		In-force
H.248.78	2010-09-13	Gateway control protocol: Bearer-level application level gateway		In-force
H.248.79	2012-02-13	Gateway control protocol: Guidelines for packet-based streams		In-force
H.248.81	2011-05-14	Gateway control protocol: Guidelines on the use of the international emergency preference scheme (IEPS) call indicator and priority indicator in ITU-T H.248 profiles		In-force
H.248.83	2012-02-13	Gateway control protocol: Media gateway instance package		In-force
H.248.84	2012-07-22	Gateway control protocol: NAT traversal for peer-to-peer services		Pre-published
H.249	2006-05-29	Extended user input indications		In-force
		Coding of moving video		-
H.261	1993-03-12	Video codec for audiovisual services at p x 64 kbit/s		In-force
H.262	2012-02-29	Information technology – Generic coding of moving pictures and associated audio information: Video	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment.	-
H.263 App. III	2001-06-08	Examples for H.263 encoder/decoder implementations		In-force
H.263	2005-01-13	Video coding for low bit rate communication		In-force
H.264	2012-01-13	Advanced video coding for generic audiovisual services		In-force
H.264.1	2012-01-13	Conformance specification for ITU-T H.264 advanced video coding	The conformance bitstreams identified in Recommendation ITU-T H.264.1 can be downloaded from the ITU-T Test Signal Database at http://itu.int/net/ITU-T/sigdb/spevideo/Hseries-s.htm#H.264.1	In-force
H.264.2	2012-01-13	Reference software for ITU-T H.264 advanced video coding		In-force
H.271	2006-05-29	Video back-channel messages for conveyance of status information and requests from a video receiver to a video sender		In-force

Number	Approval date	Recommendation Title	Observation	Status
H.272	2007-01-13	Procedures and values for video gamma compensation in multimedia systems		In-force
		Related systems aspects		-
H.281	1994-11-01	A far end camera control protocol for videoconferences using H.224		In-force
		Systems and terminal equipment for audiovisual services		-
H.310	1998-09-25	Broadband audiovisual communication systems and terminals		In-force
H.310 (1998) Cor. 1	2005-01-08			In-force
H.320	2004-03-15	Narrow-band visual telephone systems and terminal equipment		In-force
H.321	1998-02-06	Adaptation of H.320 visual telephone terminals to B-ISDN environments		In-force
H.321 (1998) Cor. 1	2005-01-08			In-force
H.322	1996-03-20	Visual telephone systems and terminal equipment for local area networks which provide a guaranteed quality of service		In-force
H.323 v7	2009-12-14	Packet-based multimedia communications systems		In-force
H.324	2009-04-29	Terminal for low bit-rate multimedia communication		In-force
H.331	1993-03-12	Broadcasting type audiovisual multipoint systems and terminal equipment		In-force
H.332	1998-09-25	H.323 extended for loosely coupled conferences		In-force
H.341	1999-05-27	Multimedia management information base	This Recommendation includes one diskette containing the formal descriptions of annexes A, B, C, D and E for the multimedia management information base	In-force
		Directory services architecture for audiovisual and multimedia services		In-force
H.350	2011-05-14	Directory services architecture for multimedia conferencing		In-force
H.350.1	2011-05-14	Directory services architecture for H.323		In-force
H.350.2	2011-05-14	Directory services architecture for H.235		In-force
H.350.3	2011-05-14	Directory services architecture for H.320		In-force
H.350.4	2011-05-14	Directory services architecture for SIP		In-force
H.350.5	2011-05-14	Directory services architecture for non-standard protocols		In-force
H.350.6	2011-05-14	Directory services architecture for call forwarding and preferences		In-force
H.350.7	2007-01-13	Directory services architecture for XMPP		In-force
H.351	2008-06-13	Semantic web interface for multimedia terminal and system directories (SWIM-D)		In-force

Number	Approval date	Recommendation Title	Observation	Status
		Quality of service architecture for audiovisual and multimedia services		-
H.360	2004-03-15	An architecture for end-to-end QoS control and signalling		In-force
H.361	2006-05-29	End-to-end quality of service (QoS) and service priority signalling in H.323 systems		In-force
H.361 (2006) Amd. 1	2008-06-13	New Annex A "IntServ/RSVP support for H.323 systems", Annex B "DiffServ support for H.323 systems" and Annex C "Priority support for H.323 systems"		In-force
H.362	2010-09-13	A framework for adaptive end-to-end QoS control based on variable bit-rate codecs in wireless networks		In-force
		Supplementary services for multimedia		In-force
H.450.1	2011-05-14	Generic functional protocol for the support of supplementary services in ITU-T H.323 systems		In-force
H.450.2	2011-05-14	Call transfer supplementary service for ITU-T H.323 systems		In-force
H.450.3	2011-05-14	Call diversion supplementary service for ITU-T H.323 systems		In-force
H.450.4	1999-05-27	Call hold supplementary service for H.323		In-force
H.450.5	1999-05-27	Call park and call pickup supplementary services for H.323		In-force
H.450.5 (1999) Erratum 2	2002-04-22			In-force
H.450.5 (1999) Erratum 1	2000-05-25			In-force
H.450.6	1999-05-27	Call waiting supplementary service for H.323		In-force
H.450.7	1999-05-27	Message waiting indication supplementary service for H.323		In-force
H.450.8	2000-02-17	Name identification supplementary service for H.323		In-force
H.450.9	2000-11-17	Call completion supplementary services for H.323		In-force
H.450.10	2001-03-01	Call offering supplementary services for H.323		In-force
H.450.11	2001-03-01	Call intrusion supplementary service for H.323		In-force
H.450.12	2001-07-29	Common Information Additional Network Feature for H.323		In-force
H.460.1	2002-03-29	Guidelines for the use of the generic extensible framework		In-force
H.460.2	2001-07-29	Number Portability interworking between H.323 and SCN networks		In-force
H.460.3	2002-11-29	Circuit maps within H.323 systems		In-force
H.460.4	2007-01-13	Call priority designation and country/international network of call origination identification for H.323 priority calls		In-force

Number	Approval date	Recommendation Title	Observation	Status
H.460.5	2002-11-29	H.225.0 transport of multiple Q.931 information elements of the same type		In-force
H.460.6	2002-11-29	Extended Fast Connect feature		In-force
H.460.7	2002-11-29	Digit maps within H.323 systems		In-force
H.460.8	2002-11-29	Querying for alternate routes within H.323 systems		In-force
H.460.9	2002-11-29	Support for online QoS-monitoring reporting within H.323 systems		In-force
H.460.9 (2002) Amd. 1	2004-03-15	New Annex B – Extended performance metrics		In-force
H.460.10	2004-03-15	Call party category within H.323 systems		In-force
H.460.11	2004-03-15	Delayed call establishment within H.323 systems		In-force
H.460.12	2004-03-15	Glare control indicator within H.323 systems		In-force
H.460.13	2004-03-15	Called user release control within H.323 systems		In-force
H.460.14	2004-03-15	Support for Multi-Level Precedence and Preemption (MLPP) within H.323 systems		In-force
H.460.15	2004-03-15	Call signalling transport channel suspension and redirection within H.323 systems		In-force
H.460.16	2005-01-08	Multiple-message release sequence capability within H.323 systems		In-force
H.460.17	2005-09-13	Using H.225.0 call signalling connection as transport for H.323 RAS messages		In-force
H.460.18	2005-09-13	Traversal of H.323 signalling across network address translators and firewalls		In-force
H.460.19	2005-09-13	Traversal of H.323 media across network address translators and firewalls		In-force
H.460.20	2005-09-13	Location number within H.323 systems		In-force
H.460.21	2006-05-29	Message broadcast for H.323 systems		In-force
H.460.22	2007-01-13	Negotiation of security protocols to protect H.225.0 call signalling messages		In-force
H.460.22 (2007) Cor. 1	2008-06-13	Corrections to message flow		In-force
H.460.23	2009-12-14	Network address translator and firewall device determination in ITU-T H.323 systems		In-force
H.460.23 (2009) Amd. 1	2011-05-14	Support for ITU-T H.460.24 Annex B		In-force
H.460.24	2009-12-14	Point-to-point media through network address translators and firewalls within ITU-T H.323 systems		In-force
H.460.24 (2009) Amd. 1	2011-05-14	Improvements for NAT traversal without intermediary entities		In-force
H.460.25	2010-09-13	Transport of geographic information in ITU-T H.323 systems		In-force
H.460.26	2012-06-29	Using ITU-T H.225.0 call signalling connection as transport for media		Pre-published

Number	Approval date	Recommendation Title	Observation	Status
		Mobility and Collaboration procedures		-
		Overview of Mobility and Collaboration, definitions, protocols and procedures		In-force
H.501	2002-03-29	Protocol for mobility management and intra/inter-domain communication in multimedia systems		In-force
		Mobility for H-Series multimedia systems and services		In-force
H.510	2002-03-29	Mobility for H.323 multimedia systems and services		In-force
		Security for mobile multimedia systems and services		-
H.530	2002-03-29	Symmetric security procedures for H.323 mobility in H.510		In-force
H.530 (2002) Cor. 1	2003-07-14			In-force
		Broadband, triple-play and advanced multimedia services		In-force
		Broadband multimedia services over VDSL		-
H.610	2003-07-14	Full service VDSL – System architecture and customer premises equipment		In-force
H.611	2003-07-14	Full-Service VDSL – Operations, Administration Maintenance & Provision aspects		In-force
		Advanced multimedia services and applications		In-force
H.621	2008-08-06	Architecture of a system for multimedia information access triggered by tag-based identification		In-force
H.622	2008-06-13	A generic home network architecture with support for multimedia services		In-force
H.622.1	2008-10-14	Architecture and functional requirements for home networks supporting IPTV services		In-force
H.625	2010-10-14	Architecture for network-based speech-to-speech translation services		In-force
H.626	2011-05-14	Architectural requirements for visual surveillance		In-force
H.627	2012-06-29	Signalling and protocols for visual surveillance		Pre-published
		Ubiquitous sensor network applications and Internet of Things		-
H.641	2012-02-13	SNMP-based sensor network management framework		In-force
H.642.1	2012-06-29	Multimedia information access triggered by tag-based identification - Identification scheme		In-force
H.642.2	2012-06-29	Multimedia information access triggered by tag-based identification - Registration procedures for identifiers		Pre-published

Number	Approval date	Recommendation Title	Observation	Status
H.642.3	2012-06-29	Information technology – Automatic identification and data capture technique - Identifier resolution protocol for multimedia information access triggered by tag-based identification		Pre-published
		IPTV multimedia services and applications for IPTV		-
		General aspects		In-force
H.701	2009-03-16	Content delivery error recovery for IPTV services		In-force
		IPTV terminal devices		-
H.720	2008-10-14	Overview of IPTV terminal devices and end systems		In-force
H.721	2009-03-16	IPTV terminal devices: Basic model		In-force
H.721 (2009) Amd.1	2010-07-30	New Appendix II on terminal device implementation example		In-force
		IPTV middleware		In-force
H.730	2012-06-29	Web-based terminal middleware for IPTV services		Pre-published
		IPTV application event handling		-
H.740	2010-03-22	Application event handling for IPTV services		In-force
H.740 (2010) Amd. 1	2011-03-25	New video handling sensor event scenario in Appendix II		In-force
H.741.0	2012-03-22	IPTV application event handling: Overall aspects of audience measurement for IPTV services		In-force
H.741.1	2012-06-29	IPTV application event handling: Audience measurement operations for IPTV services		Pre-published
H.741.1 (2012) Amd. 1	2013-01-25	New Appendices VIII and IX with XML schema on audience measurement service		Pre-published
H.741.2	2012-06-29	IPTV application event handling: Data structures of audience measurement for IPTV services		Pre-published
H.741.3	2012-06-29	IPTV application event handling: Audience measurement for IPTV distributed content services		Pre-published
H.741.4	2012-06-29	IPTV application event handling: Transport mechanisms for audience measurement		Pre-published
		IPTV metadata		-
H.750	2008-10-14	High-level specification of metadata for IPTV services		In-force
		IPTV multimedia application frameworks		-
H.760	2009-03-16	Overview of multimedia application frameworks for IPTV services		In-force
H.761 v2	2011-06-13	Nested context language (NCL) and Ginga-NCL		In-force
H.762	2011-05-14	Lightweight interactive multimedia environment (LIME) for IPTV services		In-force

Number	Approval date	Recommendation Title	Observation	Status
H.763.1	2010-09-13	Cascading style sheets for IPTV services		In-force
H.764	2012-06-29	IPTV service enhanced script language		Pre-published
		IPTV service discovery up to consumption		-
H.770	2009-08-22	Mechanisms for service discovery and selection for IPTV services	The published text of this Recommendation includes the modifications introduced by Rec. ITU-T H.770 (2009) Amend.1	In-force
H.770 (2009) Amd.1	2009-11-06	Updated Appendix I with multiple service platforms and Appendix II with requirements in other standard organizations	This amendment was never published, its content having been included in the published ITU-T Rec. H.770 (2009)	-
H.770 (2009) Amd.2	2010-09-13	Support of service discovery using Broadband Forum TR-069		In-force
H.771	2011-05-14	SIP-based discovery of IPTV services		In-force
		Digital Signage		In-force
H.780	2012-06-29	Digital signage: Service requirements and IPTV-based architecture		Pre-published
		Supplements to the Series H Recommendations		-
H Suppl. 1	1999-05-27	Application profile – Sign language and lip-reading real-time conversation using low bit rate video communication	This Supplement includes one CD-ROM containing the video clip "Irene" to be used as test material for video coding of sign language. Due to the data volume, this Supplement is not downloadable from ITU website and should be provided from Sales department	In-force
H Suppl. 2	2011-12-02	ITU-T H.248.x sub-series packages guide – Release 15		In-force
H Suppl. 3	2003-05-30	Operator requirements for full-service VDSL in ITU-T Recommendations H.610 and H.611		In-force
H Suppl. 4	2011-12-02	Repository of generic parameters for ITU-T H.460.x sub-series Recommendations		In-force
H Suppl. 5	2006-11-24	Gateway control protocol: Guidelines for resource management of 'IP Address & Port' resources for H.248 RTP terminations		In-force
H Suppl. 6	2006-04-13	Control load quantum for decomposed gateways		In-force
H Suppl. 7	2008-05-02	Gateway control protocol: Establishment procedures for the H.248 MGC-MG control association		In-force
H Suppl. 8	2008-05-02	Gateway control protocol: Guidelines for synchronized time in ITU-T H.248 domains		In-force

Number	Approval date	Recommendation Title	Observation	Status
H Suppl. 9	2008-05-02	Gateway control protocol: Operation of H.248 with H.225.0, SIP, and ISUP in support of emergency telecommunications service (ETS)/international emergency preference scheme (IEPS)		In-force
H Suppl. 10	2008-05-02	Proxy-aided NAT/FW traversal scheme for ITU-T H.323 multimedia systems		In-force
H Suppl. 11	2009-02-06	Analysis of class-based home network QoS solutions		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series I : Integrated services digital network				
		General structure		-
		Terminology		-
I.112	1993-03-12	Vocabulary of terms for ISDNs		In-force
I.112 App.I	2002-02-01	General telecommunication terminology and definitions		In-force
I.113	1997-06-20	Vocabulary of terms for broadband aspects of ISDN		In-force
I.114	1993-03-12	Vocabulary of terms for universal personal telecommunication		In-force
		Description of ISDNs		-
I.120	1993-03-12	Integrated services digital networks (ISDNs)		In-force
I.121	1991-04-05	Broadband aspects of ISDN		In-force
I.122	1993-03-12	Framework for frame mode bearer services		In-force
		General modelling methods		-
I.130	1988-11-25	Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN		In-force
		Telecommunication network and service attributes		-
I.140	1993-03-12	Attribute technique for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN		In-force
I.141	1988-11-25	ISDN network charging capabilities attributes		In-force
		General description of asynchronous transfer mode		-
I.150	1999-02-26	B-ISDN asynchronous transfer mode functional characteristics		In-force
		Service capabilities		-
		Scope		-
I.200	1988-11-25	Guidance to the I.200-series of Recommendations		In-force
		General aspects of services in ISDN		-
I.210	1993-03-12	Principles of telecommunication services supported by an ISDN and the means to describe them		In-force
I.211	1993-03-12	B-ISDN service aspects		In-force
		Common aspects of services in the ISDN		-
I.220	1988-11-25	Common dynamic description of basic telecommunication services		In-force
I.221	1993-03-12	Common specific characteristics of services		In-force
		Bearer services supported by an ISDN		-
I.230	1988-11-25	Definition of bearer service categories		In-force
I.231		Circuit-mode bearer service categories		-
I.231.1	1988-11-25	Circuit-mode 64 kbit/s unrestricted, 8 kHz structured bearer service		In-force
I.231.2	1988-11-25	Circuit-mode 64 kbit/s, 8 kHz structured bearer service usable for speech information transfer		In-force

Number	Approval date	Recommendation Title	Observation	Status
I.231.3	1988-11-25	Circuit-mode 64 kbit/s, 8 kHz structured bearer service usable for 3.1 kHz audio information transfer		In-force
I.231.4	1988-11-25	Circuit-mode, alternate speech / 64 kbit/s unrestricted, 8 kHz structured bearer service		In-force
I.231.5	1988-11-25	Circuit-mode 2 x 64 kbit/s unrestricted, 8 kHz structured bearer service		In-force
I.231.6	1996-07-19	Circuit-mode 384 kbit/s unrestricted, 8 kHz structured bearer service		In-force
I.231.7	1996-07-19	Circuit-mode 1536 kbit/s unrestricted, 8 kHz structured bearer service		In-force
I.231.8	1996-07-19	Circuit-mode 1920 kbit/s unrestricted, 8 kHz structured bearer service		In-force
I.231.9	1993-03-12	Circuit-mode 64 kbit/s 8 kHz structured multi-use bearer service		In-force
I.231.10	1992-08-04	Circuit-mode multiple-rate unrestricted 8 kHz structured bearer service		In-force
I.232		Packet-mode bearer services categories		-
I.232.1	1988-11-25	Virtual call and permanent virtual circuit bearer service category		In-force
I.232.2	1988-11-25	Connectionless bearer service category	Empty Recommendation. This service has only been identified and requires further study	-
I.232.3	1993-03-12	User signalling bearer service category (USBS)		In-force
I.233		Frame mode bearer services		-
I.233.1	1991-10-25	ISDN frame relaying bearer service	Published with ITU-T I.233.2	In-force
I.233.1 Annex F	1996-07-19	Frame relay multicast		In-force
I.233.2	1991-10-25	ISDN frame switching bearer service	Published with ITU-T I.233.1	In-force
		Teleservices supported by an ISDN		-
I.240	1988-11-25	Definition of teleservices		In-force
I.241		Teleservices supported by an ISDN		-
I.241.1	1988-11-25	Telephony		In-force
I.241.2	1988-11-25	Teletex		In-force
I.241.3	1988-11-25	Telefax 4		In-force
I.241.4	1988-11-25	Mixed mode		In-force
I.241.5	1988-11-25	Videotex		In-force
I.241.6	1988-11-25	Telex		In-force
I.241.7	1993-03-12	Telephony 7 kHz teleservice		In-force
I.241.8	1995-10-03	Teleaction stage one service description		In-force
		Supplementary services in ISDN		-
I.250	1988-11-25	Definition of supplementary services		In-force
I.251		Number identification supplementary services		-
I.251.1	1992-08-04	Direct-dialling-In		In-force
I.251.2	1992-08-04	Multiple Subscriber Number		In-force
I.251.3	1992-08-04	Calling Line Identification Presentation		In-force
I.251.4	1992-08-04	Calling Line Identification Restriction		In-force

Number	Approval date	Recommendation Title	Observation	Status
I.251.5	1995-02-21	Connected Line Identification Presentation (COLP)		In-force
I.251.6	1995-02-21	Connected Line Identification Restriction (COLR)		In-force
I.251.7	1992-08-04	Malicious call Identification		In-force
I.251.8	1992-08-04	Sub-addressing supplementary service		In-force
I.251.9	1996-07-19	Calling name identification presentation		In-force
I.251.10	1996-07-19	Calling name identification restriction		In-force
I.252		Call offering supplementary services		-
I.252.1	1988-11-25	Call Transfer		In-force
I.252.2	1992-08-04	Call Forwarding Busy		In-force
I.252.3	1992-08-04	Call Forwarding No Reply		In-force
I.252.4	1992-08-04	Call Forwarding Unconditional		In-force
I.252.5	1992-08-04	Call Deflection		In-force
I.252.6	1988-11-25	Line Hunting (LH)		In-force
I.252.7	1997-05-30	Explicit call transfer		In-force
I.253		Call completion supplementary services		-
I.253.1	1990-07-02	Call waiting (CW) supplementary service		In-force
I.253.2	1992-08-04	Call Hold		In-force
I.253.3	1996-07-19	Completion of calls to busy subscribers		In-force
I.253.4	1996-07-19	Completion of calls on no reply		In-force
I.254		Multiparty supplementary services		-
I.254.1	1988-11-25	Conference calling (CONF)		In-force
I.254.2	1992-08-04	Three-Party Supplementary Service		In-force
I.254.5	1997-05-30	Meet-me conference		In-force
I.255		Community of interest supplementary services		-
I.255.1	1992-08-04	Closed User Group		In-force
I.255.2	1996-07-19	Support of Private Numbering Plans		In-force
I.255.3	1990-07-02	Multi-level precedence and preemption service (MLPP)		In-force
I.255.4	1990-07-02	Priority service		In-force
I.255.5	1992-08-04	Outgoing call barring		In-force
I.256		Charging supplementary services		-
I.256.1	1988-11-25	Credit card calling (CRED)	Empty Recommendation. This subject has only been identified and is left for further study	-
I.256.2a	1993-03-12	Advice of charge: charging information at call set-up time (AOC-S)		In-force
I.256.2b	1993-03-12	Advice of charge: charging information during the call (AOC-D)		In-force
I.256.2c	1993-03-12	Advice of charge: charging information at the end of the call (AOC-E)		In-force
I.256.3	1992-08-04	Reverse charging		In-force
I.257		Additional information transfer supplementary services		-
I.257.1	1995-10-03	User-to-User Signalling (UUS)		In-force

Number	Approval date	Recommendation Title	Observation	Status
I.258		Mobility and modification supplementary services		-
I.258.1	1995-10-03	Terminal portability (TP)		In-force
I.258.2	1995-02-21	In-call modification (IM)		In-force
I.259		Screening supplementary services		-
I.259.1	1996-07-19	Address screening (ADS)		In-force
		Overall network aspects and functions		-
		Network functional principles		-
I.310	1993-03-12	ISDN – Network functional principles		In-force
I.311	1996-08-27	B-ISDN general network aspects		In-force
I.311 (1996) Amd. 1	2000-03-10			In-force
I.312/Q.1201	1992-10-01	Principles of intelligent network architecture	This Recommendation is published with the double number Q.1201 and I.312.	In-force
I.313	1997-09-19	B-ISDN network requirements		In-force
		Reference models		-
I.320	1993-11-26	ISDN protocol reference model		In-force
I.321	1991-04-05	B-ISDN protocol reference model and its application		In-force
I.322	1999-02-26	Generic protocol reference model for telecommunication networks		In-force
I.324	1991-10-25	ISDN network architecture		In-force
I.325	1993-03-12	Reference configurations for ISDN connection types		In-force
I.326	2003-03-16	Functional architecture of transport networks based on ATM		In-force
I.327	1993-03-12	B-ISDN functional architecture		In-force
I.328/Q.1202	1997-09-12	Intelligent network – Service plane architecture	This Recommendation is published with the double number Q.1202 and I.328	In-force
I.329/Q.1203	1997-09-12	Intelligent network – Global functional plane architecture	This Recommendation is published with the double number Q.1203 and I.329	In-force
		Numbering, addressing and routing		-
I.330	1988-11-25	ISDN numbering and addressing principles		In-force
I.333	1993-03-12	Terminal selection in ISDN		In-force
I.334	1988-11-25	Principles relating ISDN numbers/sub-addresses to the OSI reference model network layer addresses		In-force
		Connection types		-
I.340	1988-11-25	ISDN connection types		In-force
		Performance objectives		-
I.350	1993-03-12	General aspects of quality of service and network performance in digital networks, including ISDNs		In-force
G.820/I.351/Y.1501	2004-07-29	Relationships among ISDN, IP-based network and physical layer performance Recommendations	Formerly ITU-T Rec. I.351/Y.801/Y.1501	In-force

Number	Approval date	Recommendation Title	Observation	Status
I.352	1993-03-12	Network performance objectives for connection processing delays in an ISDN		In-force
I.353	1996-08-27	Reference events for defining ISDN and B-ISDN performance parameters		In-force
I.354	1993-03-12	Network performance objectives for packet-mode communication in an ISDN		In-force
I.355	2000-10-06	ISDN 64 kbit/s connection type availability performance		In-force
I.356	2000-03-10	B-ISDN ATM layer cell transfer performance		In-force
I.356 (2000) Amd. 1	2004-02-12	New Appendix V – Support of Y.1541 QoS classes 0 and 2 in ATM-based networks		In-force
I.357	2000-11-24	B-ISDN semi-permanent connection availability		In-force
I.358	2003-09-13	Call processing performance for switched virtual channel connections (VCCs) in a B-ISDN		In-force
I.359	1999-02-26	Accuracy and dependability of ISDN 64 kbit/s circuit-mode connection types		In-force
		Protocol layer requirements		-
I.361	1999-02-26	B-ISDN ATM layer specification		In-force
I.363		B-ISDN ATM Adaptation Layer specification		-
I.363.1	1996-08-27	Type 1 AAL	Results from the subdivision of ITU-T Rec. I.363 (1993-03)	In-force
I.363.2	2000-11-24	Type 2 AAL		In-force
I.363.3	1996-08-27	Type 3/4 AAL	Results from the subdivision of ITU-T Rec. I.363 (1993-03)	In-force
I.363.5	1996-08-27	Type 5 AAL	Results from the subdivision of ITU-T Rec. I.363 (1993-03)	In-force
I.364	1999-02-26	Support of the broadband connectionless data bearer service by the B-ISDN		In-force
I.365		B-ISDN ATM adaptation layer sublayers		-
I.365.1	1993-11-26	Frame relaying service specific convergence sublayer (FR-SSCS)		In-force
I.365.2	1995-11-02	Service-specific coordination function to provide the connection-oriented network service		In-force
I.365.3	1995-11-02	Service-specific coordination function to provide the connection-oriented transport service		In-force
I.365.4	1996-08-27	Service-specific convergence sublayer for HDLC applications		In-force
I.366.1	1998-06-01	Segmentation and Reassembly Service Specific Convergence Sublayer for the AAL type 2		In-force
I.366.2	2000-11-24	AAL type 2 service specific convergence sublayer for narrow-band services		In-force
I.366.2 (2000) Cor. 1	2002-03-16			In-force
		General network requirements and functions		-

Number	Approval date	Recommendation Title	Observation	Status
I.370	1991-10-25	Congestion management for the ISDN frame relaying bearer service		In-force
I.371	2004-03-29	Traffic control and congestion control in B-ISDN		In-force
I.372	1993-03-12	Frame relaying bearer service network-to-network interface requirements		In-force
I.373	1993-03-12	Network capabilities to support universal personal telecommunication (UPT)		In-force
I.375		Network capabilities to support multimedia services		-
I.375.1	1998-06-01	General aspects		In-force
I.375.2	1998-06-01	Example of multimedia retrieval service class – Video-on-demand service using an ATM-based network		In-force
I.375.3	2000-03-10	Example of multimedia distribution service class – Switched digital broadcasting		In-force
I.376	1995-03-19	ISDN network capabilities for the support of the teleaction service		In-force
I.377	2000-10-06	Network requirements to support charging and accounting in B-ISDN		In-force
I.378	2002-12-14	Traffic control and congestion control at the ATM Adaptation Layer type 2		In-force
I.378 (2002) Amd. 1	2003-08-01	New Appendix IV: Deriving AAL 2 traffic parameters from AAL 2 link characteristics		In-force
I.381	2001-03-01	ATM adaptation layer (AAL) Performance		In-force
		ISDN user-network interfaces		In-force
		Application of I-series Recommendations to ISDN user-network interfaces		-
I.410	1988-11-25	General aspects and principles relating to Recommendations on ISDN user-network interfaces		In-force
I.411	1993-03-12	ISDN user-network interfaces – Reference configurations		In-force
I.412	1988-11-25	ISDN user-network interfaces – Interface structures and access capabilities		In-force
I.413	1993-03-12	B-ISDN user-network interface		In-force
I.414	1997-09-19	Overview of Recommendations on layer 1 for ISDN and B-ISDN customer accesses		In-force
I.420	1988-11-25	Basic user-network interface		In-force
I.421	1988-11-25	Primary rate user-network interface		In-force
		Layer 1 Recommendations		In-force
I.430	1995-11-02	Basic user-network interface – Layer 1 specification		In-force
I.431	1993-03-12	Primary rate user-network interface – Layer 1 specification		In-force
I.431 (1993) Amd. 1	1997-06-20			In-force
I.432		B-ISDN user-network interface – Physical layer specification		-

Number	Approval date	Recommendation Title	Observation	Status
I.432.1	1999-02-26	General characteristics		In-force
I.432.2	1999-02-26	155 520 kbit/s and 622 080 kbit/s operation		In-force
I.432.3	1999-02-26	1544 kbit/s and 2048 kbit/s operation		In-force
I.432.4	1999-02-26	51 840 kbit/s operation		In-force
I.432.5	1997-06-20	25 600 kbit/s operation	Results from the subdivision of ITU-T Rec. I.432 (1993-03)	In-force
		Layer 2 Recommendations		In-force
Q.920	1993-03-12	ISDN user-network interface data link layer – General aspects	This Recommendation is also included but not published in I series under alias number I.440	In-force
Q.920 (1993) Amd. 1	2000-06-15			In-force
Q.921	1997-09-12	ISDN user-network interface – Data link layer specification	This Recommendation is also included but not published in I series under alias number I.441	In-force
Q.921 (1997) Amd. 1	2000-06-15			In-force
		Layer 3 Recommendations		-
Q.930	1993-03-12	ISDN user-network interface layer 3 – General aspects	This Recommendation is also included but not published in I series under alias number I.450	In-force
Q.931	1998-05-15	ISDN user-network interface layer 3 specification for basic call control	This Recommendation is also included but not published in I series under alias number I.451	In-force
Q.931 (1998) Erratum 1	2003-02-14			In-force
Q.931 (1998) Amd. 1	2002-12-29	Extensions for the support of digital multiplexing equipment		In-force
		Multiplexing, rate adaption and support of existing interfaces		-
I.460	1999-02-26	Multiplexing, rate adaption and support of existing interfaces		In-force
X.30	1993-03-12	Support of X.21, X.21 bis and X.20 bis based Data Terminal Equipments (DTEs) by an Integrated Services Digital Network (ISDN)	This Recommendation is also included but not published in I series under alias number I.461	In-force
X.31	1995-11-21	Support of packet mode terminal equipment by an ISDN	This Recommendation is also included but not published in I series under alias number I.462	In-force
V.110	2000-02-17	Support by an ISDN of data terminal equipments with V-series type interfaces	This Recommendation is also included but not published in I series under alias number I.463	In-force

Number	Approval date	Recommendation Title	Observation	Status
I.464	1999-02-26	Multiplexing, rate adaption and support of existing interfaces for restricted 64 kbit/s transfer capability		In-force
V.120	1996-10-18	Support by an ISDN of data terminal equipment with V-series type interfaces with provision for statistical multiplexing	This Recommendation is also included but not published in I series under alias number I.465	In-force
V.120 (1996) Cor. 1	1999-05-27			In-force
		Aspects of ISDN affecting terminal requirements		In-force
I.470	1988-11-25	Relationship of terminal functions to ISDN		In-force
I.480	2000-03-10	1+1 protection switching for cell-based physical layer		In-force
		Internetwork interfaces		In-force
I.500	1993-03-12	General structure of the ISDN interworking Recommendations		In-force
I.501	1993-03-12	Service interworking		In-force
I.510	1993-03-12	Definitions and general principles for ISDN interworking		In-force
I.511	1988-11-25	ISDN-to-ISDN layer 1 internetwork interface		In-force
I.515	1993-03-12	Parameter exchange for ISDN interworking		In-force
I.520	1993-03-12	General arrangements for network interworking between ISDNs		In-force
I.525	1996-08-27	Interworking between networks operating at bit rates less than 64 kbit/s with 64 kbit/s-based ISDN and B-ISDN		In-force
I.530	1993-03-12	Network interworking between an ISDN and a public switched telephone network (PSTN)		In-force
X.321	1996-10-05	General arrangements for interworking between Circuit-Switched Public Data Networks (CSPDNs) and Integrated Services Digital Networks (ISDNs) for the provision of data transmission services	This Recommendation is also included but not published in I series under alias number I.540	In-force
X.325	1996-10-05	General arrangements for interworking between Packet-Switched Public Data Networks (PSPDNs) and Integrated Services Digital Networks (ISDNs) for the provision of data transmission services	This Recommendation is also included but not published in I series under alias number I.550	In-force
I.555	1997-09-19	Frame Relaying Bearer Service interworking		In-force
U.202	1993-03-12	Technical requirements to be met in providing the international telex service within an integrated services digital network	This Recommendation is also included but not published in I series under alias number I.560	In-force
I.570	1993-03-12	Public/private ISDN interworking		In-force
I.571	1996-08-27	Connection of VSAT based private networks to the public ISDN		In-force
I.572	2000-03-10	VSAT interconnection with the PSTN		In-force
I.580	1995-11-02	General arrangements for interworking between B-ISDN and 64 kbit/s based ISDN		In-force

Number	Approval date	Recommendation Title	Observation	Status
I.581	1997-09-19	General arrangements for B-ISDN interworking		In-force
		Maintenance principles		-
I.601	1988-11-25	General maintenance principles of ISDN subscriber access and subscriber installation		In-force
I.610	1999-02-26	B-ISDN operation and maintenance principles and functions		In-force
I.610 (1999) Cor. 1	2000-03-10			In-force
I.610 (1999) Amd. 1	2000-03-10			In-force
I.610 (1999) Amd. 2	2006-12-22	Measurement of round trip delay using loopback cell		In-force
I.630	1999-02-26	ATM protection switching		In-force
I.630 (1999) Cor. 1	2000-03-10			In-force
I.630 (1999) Amd. 1	2000-03-10			In-force
		B-ISDN equipment aspects		-
		ATM equipment		-
I.731	2000-10-06	Types and general characteristics of ATM equipment		In-force
I.732	2000-10-06	Functional characteristics of ATM equipment		In-force
I.733	2009-03-16	Voice on ATM circuit multiplication equipment		In-force
I.733 (2009) Cor.1	2009-12-14	Corrections to clause 9.2.3		Pre-published
		Transport functions		In-force
I.741	1999-07-02	Interworking and interconnection between ATM and switched telephone networks for the transmission of speech, voiceband data and audio signals		In-force
		Management of ATM equipment		In-force
I.751	1996-03-20	Asynchronous transfer mode management of the network element view		In-force
		Multiplexing aspects		In-force
I.761	2000-03-10	Inverse multiplexing for ATM (IMA)		In-force
I.762	2000-03-10	ATM over fractional physical links		In-force
		Supplements to the Series I Recommendations		-
I Suppl. 1	1998-03-09	Generic service descriptions for ten supplementary services defined in I.250-Series Recommendations		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series J : Cable networks and transmission of television, sound programme and other multimedia signals				
		General Recommendations		-
J.2	1999-09-17	Guidelines on the use of some ITU-T Recommendations in the J series		In-force
		General specifications for analogue sound-programme transmission		-
J.11	1988-11-25	Hypothetical reference circuits for sound-programme transmissions	Formerly equivalent to CCIR 502-2	In-force
J.12	1988-11-25	Types of sound-programme circuits established over the international telephone network		In-force
J.13	1988-11-25	Definitions for international sound-programme circuits		In-force
J.14	1988-11-25	Relative levels and impedances on an international sound-programme connection		In-force
J.15	1988-11-25	Lining-up and monitoring an international sound-programme connection		In-force
J.16	1988-11-25	Measurement of weighted noise in sound-programme circuits		In-force
J.17	1988-11-25	Pre-emphasis used on sound-programme circuits		In-force
J.18	1988-11-25	Crosstalk in sound-programme circuits set up on carrier systems		In-force
J.19	1988-11-25	A conventional test signal simulating sound-programme signals for measuring interference in other channels	Formerly equivalent to CCIR 571-2	In-force
		Performance characteristics of analogue sound-programme circuits		In-force
J.21	1994-08-22	Performance characteristics of 15 kHz-type sound-programme circuits – Circuits for high quality monophonic and stereophonic transmissions		In-force
J.23	1988-11-25	Performance characteristics of 7 kHz type (narrow bandwidth) sound-programme circuits	Formerly equivalent to CCIR 503	In-force
J.24	1993-03-12	Modulation of signals carried by sound-programme circuits by interfering signals from power supply sources	Former CCIR 474-1. Transferred to ITU-T on 1993-03-12 as J.24	In-force
J.25	1993-03-12	Estimation of transmission performance of sound-programme circuits shorter or longer than the hypothetical reference circuit	Former CCIR 605-1. Transferred to ITU-T on 1993-03-12 as J.25	In-force
J.26	1993-03-12	Test signals to be used on international sound-programme connections	Former CCIR 645-1. Transferred to ITU-T on 1993-03-12 as J.26	In-force
J.27	1993-03-12	Signals for the alignment of international sound-programme connections	Former CCIR 661-1. Transferred to ITU-T on 1993-03-12 as J.27	In-force
		Equipment and lines used for analogue sound-programme circuits		-
		Digital encoders for analogue sound-programme signals		-

Number	Approval date	Recommendation Title	Observation	Status
J.41	1988-11-25	Characteristics of equipment for the coding of analogue high quality sound programme signals for transmission on 384 kbit/s channels		In-force
J.42	1988-11-25	Characteristics of equipment for the coding of analogue medium quality sound-programme signals for transmission on 384-kbit/s channels		In-force
		Digital transmission of sound-programme signals		In-force
J.51	1994-08-22	General principles and user requirements for the digital transmission of high quality sound programmes		In-force
J.52	1996-07-11	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)		In-force
J.52 (1996) Amd. 1	1999-09-17	New Appendix II – Extracts from EBU specification of an ISDN Codec capable of delivering high-quality audio		In-force
J.53	2000-05-18	Sampling frequencies to be used for the digital transmission of studio-quality and high-quality sound-programme signals		In-force
J.54	1993-03-12	Transmission of analogue high-quality sound-programme signals on mixed analogue-and-digital circuits using 384 kbit/s channels	Former CCIR 660. Transferred to ITU-T on 1993-03-12 as J.54	In-force
J.55	1993-03-12	Digital transmission of high-quality sound-programme signals on distribution circuits using 480 kbit/s (496 kbit/s) per audio channel	Former CCIR 718. Transferred to ITU-T on 1993-03-12 as J.55	In-force
J.57	1993-03-12	Transmission of digital studio quality sound signals over H1 channels	Former CCIR 724. Transferred to ITU-T on 1993-03-12 as J.57	In-force
		Circuits for analogue television transmission		-
J.61	1988-11-25	Transmission performance of television circuits designed for use in international connections	Identical to CCIR 567	-
J.61 (1988) Amd. 1	2007-06-20			In-force
J.62	1988-11-25	Single value of the signal-to-noise ratio for all television systems	Identical to CCIR 568	In-force
J.63	1988-11-25	Insertion of test signals in the field-blanking interval of monochrome and colour television signals	Identical to CCIR 473	In-force
J.64	1988-11-25	Definitions of parameters for simplified automatic measurement of television insertion test signals	Identical to CCIR 569	In-force
J.65	1988-11-25	Standard test signal for conventional loading of a television channel	Identical to CCIR 570	In-force
J.66	1988-11-25	Transmission of one sound programme associated with analogue television signal by means of time division multiplex in the line synchronizing pulse	Identical to CCIR 572	In-force

Number	Approval date	Recommendation Title	Observation	Status
J.67	2001-03-09	Test signals and measurement techniques for transmission circuits carrying MAC/packet signals		In-force
J.68	1993-03-12	Hypothetical reference chain for television transmissions over very long distances	Former CCIR 603. Transferred to ITU-T on 1993-03-12 as J.68	In-force
		Analogue television transmission over metallic lines and interconnection with radio-relay links		-
		Digital transmission of television signals		In-force
J.80	1993-09-08	Transmission of component-coded digital television signals for contribution-quality applications at bit rates near 140 Mbit/s	Approved by ITU-R Plennary assembly in September 1993 as ITU-R 721-2. Transferred to ITU-T and published as J.80	In-force
J.81	1993-09-08	Transmission of component-coded digital television signals for contribution-quality applications at the third hierarchical level of ITU-T Recommendation G.702	Approved by ITU-R Plennary assembly in September 1993 as ITU-R 723-1. Transferred to ITU-T and published as J.81	In-force
J.81 (1993) Amd. 1	1995-10-24	Appendix II to Annex A to Recommendation J.81 – Guidelines for implementation of a complete television codec		In-force
J.81 (1993) Cor. 1	1996-10-18			In-force
J.81 (1993) Amd. 2	1998-03-18	Appendix IV to Annex A – Results of 34 Mbit/s codec interworking tests (February 1996)		In-force
J.82	1996-07-11	Transport of MPEG-2 constant bit rate television signals in B-ISDN		In-force
J.83	2007-12-14	Digital multi-programme systems for television, sound and data services for cable distribution		In-force
J.84	2001-03-09	Distribution of digital multi-programme signals for television, sound and data services through SMATV networks		In-force
J.85	1993-03-12	Digital television transmission over long distances – General principles	Former CCIR 604-2. Transferred to ITU-T on 1993-03-12 as J.85	In-force
J.86	1993-03-12	Mixed analogue-and-digital transmission of analogue composite television signals over long distances	Former CCIR 658-1. Transferred to ITU-T on 1993-03-12 as J.86	In-force
J.87	2001-03-09	Use of hybrid cable television links for the secondary distribution of television into the user's premises		In-force
J.88	1999-09-17	Transmission of enhanced definition television signals over digital links		In-force
J.89	1999-09-17	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		In-force
		Ancillary digital services for television transmission		-

Number	Approval date	Recommendation Title	Observation	Status
J.90	2000-05-18	Electronic programme guides for delivery by digital cable television and similar methods – Reference operating scenario and requirements		In-force
J.91	1994-08-22	Technical methods for ensuring privacy in long-distance international television transmission		In-force
J.92	1997-04-22	Recommended operating guidelines for point-to-point transmission of television programmes		In-force
J.93	1998-03-18	Requirements for conditional access in the secondary distribution of digital television on cable television systems		In-force
J.94	1998-11-19	Service information for digital broadcasting in cable television systems		In-force
J.94 (1998) Amd. 1	2000-10-06	Annex B – Service information delivered out of band for digital cable television systems		In-force
J.94 (1998) Amd. 2	2001-03-09	Revised Annex C – Service information for digital multi-programme System C		In-force
J.95	1999-09-17	Copy protection of intellectual property for content delivered on cable television systems		In-force
J.96	2002-07-29	Technical method for ensuring privacy in long-distance international MPEG-2 television transmission conforming to ITU-T Recommendation J.89		In-force
J.97	2002-07-29	Metadata on cable networks		In-force
J.98	2003-05-14	Metadata requirements for video-on-demand in cable networks		In-force
		Operational requirements and methods for television transmission		-
J.100	1993-03-12	Tolerances for transmission time differences between the vision and sound components of a television signal	Former CCIR 717. Transferred to ITU-T on 1993-03-12 as J.100	In-force
J.101	1993-03-12	Measurement methods and test procedures for teletext signals	Former CCIR 720. Transferred to ITU-T on 1993-03-12 as J.101	In-force
		Interactive systems for digital television distribution		-
J.110	1997-04-22	Basic principles for a worldwide common family of systems for the provision of interactive television services		In-force
J.111	1998-03-18	Network independent protocols for interactive systems	Guidelines for the implementation of Rec. J.111 may be found in Supplement 3 to J series (1998)	In-force

Number	Approval date	Recommendation Title	Observation	Status
J.112	1998-03-18	Transmission systems for interactive cable television services	Example of linking options between annexes of Rec. J.112 and annexes of Rec. J.83 may be found in Supplement 1 to J series (1998). Guidelines for the implementation of annex A of Rec. J.112 may be found in Supplement 2 to J series (1998)	In-force
J.112 Annex A	2001-03-09	Digital Video Broadcasting: DVB interaction channel for Cable TV (CATV) distribution systems		In-force
J.112 Annex C	2002-02-13	Data-over-cable service interface specifications: Radio-frequency interface specification using QAM technique		In-force
J.112 Annex B	2004-03-15	Data-over-cable service interface specifications: Radio-frequency interface specification		In-force
J.113	1998-03-18	Digital video broadcasting interaction channel through the PSTN/ISDN		In-force
J.114	1999-09-17	Interaction channel using digital enhanced cordless telecommunications		In-force
J.115	1999-09-17	Interaction channel using the global system for mobile communications		In-force
J.116	2000-05-18	Interaction channel for local multipoint distribution systems		In-force
J.117	1999-09-17	Home digital network interface specification		In-force
J.118	2000-05-18	Access systems for interactive services on SMATV/MATV networks		In-force
J.120	2000-05-18	Distribution of sound and television programs over the IP network	This Recommendation includes an electronic attachment containing sample source code and some tools for conformance tests	In-force
J.121	2002-02-13	Quality control protocol for webcasting		In-force
J.122	2007-12-14	Second-generation transmission systems for interactive cable television services – IP cable modems		In-force
J.123	2002-07-29	Multiplexing format for webcasting on the TCP/IP network		In-force
J.124	2004-03-15	Multiplexing format for multimedia webcasting over TCP/IP networks		In-force
J.125	2007-12-14	Link privacy for cable modem implementations		In-force
J.126	2007-12-14	Embedded Cable Modem device specification		In-force
J.127	2004-06-29	Transmission protocol for multimedia webcasting over TCP/IP networks		In-force
J.128	2008-10-29	Set-top gateway specification for transmission systems for interactive cable television services		In-force

Number	Approval date	Recommendation Title	Observation	Status
		Transport of MPEG-2 signals on packetized networks		In-force
J.131	1998-03-18	Transport of MPEG-2 signals in PDH networks		In-force
J.132	1998-03-18	Transport of MPEG-2 signals in SDH networks		In-force
J.133	2002-07-29	Measurement of MPEG-2 transport streams in networks		In-force
		Measurement of the quality of service		-
J.140	1998-03-18	Subjective picture quality assessment for digital cable television systems		In-force
J.141	1999-09-17	Performance indicators for data services delivered over digital cable television systems		In-force
J.142	2000-05-18	Methods for the measurement of parameters in the transmission of digital cable television signals		In-force
J.143	2000-05-18	User requirements for objective perceptual video quality measurements in digital cable television		In-force
J.144	2004-03-15	Objective perceptual video quality measurement techniques for digital cable television in the presence of a full reference		In-force
J.145	2001-03-09	Measurement and control of the quality of service for sound transmission over contribution and distribution networks		In-force
J.146	2002-07-29	Loop latency issues in contribution circuits for conversational TV programmes		In-force
J.147	2002-07-29	Objective picture quality measurement method by use of in-service test signals		In-force
J.148	2003-05-14	Requirements for an objective perceptual multimedia quality model		In-force
J.149	2004-03-15	Method for specifying accuracy and cross-calibration of Video Quality Metrics (VQM)		In-force
		Digital television distribution through local subscriber networks		In-force
J.150	1998-03-18	Operational functionalities for the delivery of digital multiprogramme television, sound and data services through multichannel, multipoint distribution systems (MMDS)		In-force
J.150 (1998) Amd. 1	1999-09-17	Additions to Recommendation J.150 to also encompass local multipoint distribution systems (LMDS)		In-force
J.150 (1998) Amd. 2	2001-03-09			In-force
J.151	2000-10-06	RF remodulator interface for digital television		In-force
		IPCablecom		-
J.160	2005-11-29	Architectural framework for the delivery of time-critical services over cable television networks using cable modems		In-force
J.161	2007-06-20	Audio and video codec requirements and usage for the provision of bidirectional audio services over cable television networks using cable modems		In-force

Number	Approval date	Recommendation Title	Observation	Status
J.162	2007-12-14	Network call signalling protocol for the delivery of time-critical services over cable television networks using cable modems		Pre-published
J.163	2007-12-14	Dynamic quality of service for the provision of real-time services over cable television networks using cable modems		In-force
J.164	2007-12-14	Event message requirements for the support of real-time services over cable television networks using cable modems		In-force
J.166	2007-12-14	IPCablecom Management Information Base (MIB) framework		In-force
J.167	2007-12-14	Media terminal adapter (MTA) device provisioning requirements for the delivery of real-time services over cable television networks using cable modems		In-force
J.170	2005-11-29	IPCablecom security specification		In-force
J.171.0	2005-11-29	IPCablecom trunking gateway control protocol (TGCP): Profiles overview	ITU-T Rec. J.171 (2002) was reorganized into J.171.0, .1 and .2 when revised in 2005	In-force
J.171.1	2005-11-29	IPCablecom trunking gateway control protocol (TGCP): Profile 1	ITU-T Rec. J.171 (2002) was reorganized into J.171.0, .1 and .2 when revised in 2005	In-force
J.171.2	2005-11-29	IPCablecom trunking gateway control protocol (TGCP): Profile 2	ITU-T Rec. J.171 (2002) was reorganized into J.171.0, .1 and .2 when revised in 2005	In-force
J.172	2005-11-29	IPCablecom management event mechanism		In-force
J.173	2005-11-29	IPCablecom embedded MTA primary line support		In-force
J.175	2005-11-29	Audio server protocol		In-force
J.177	2005-11-29	IPCablecom CMS subscriber provisioning specification		In-force
J.178	2005-11-29	IPCablecom CMS to CMS signalling		In-force
J.179	2005-11-29	IPCablecom support for multimedia		In-force
		Digital transmission of television signals		In-force
J.180	2000-05-18	User requirements for statistical multiplexing of several programmes on a transmission channel		In-force
J.181	2004-06-29	Digital program insertion cueing message for cable television systems		In-force
J.181 (2004) Erratum 1	2006-05-20	Appendix I		In-force
J.182	2001-03-09	Parameter sets for analogue interface specifications for the interconnection of set-top boxes and presentation devices in the home		In-force
J.183	2001-03-09	Time-division multiplexing of multiple MPEG-2 transport streams over cable television systems		In-force
J.184	2001-03-09	Digital broadband delivery system: Out-of-band transport		In-force

Number	Approval date	Recommendation Title	Observation	Status
J.185	2012-06-13	Transmission equipment for transferring multi-channel television signals over optical access networks by frequency modulation conversion		In-force
J.186	2008-06-13	Transmission equipment for multi-channel television signals over optical access networks by sub-carrier multiplexing (SCM)		In-force
J.187	2002-07-29	Transport mechanism for component-coded digital high-definition television signals using MPEG-2 video coding including all service elements for contribution and primary distribution		In-force
J.187 (2002) Cor. 1	2003-04-04			In-force
J.188	2002-07-29	A framework for an efficient parallel video transmission system including codecs with functions of failure detection and picture quality evaluation		In-force
J.189	2002-07-29	Seamless splicing for MPEG-2 bit streams		In-force
J.189 (2002) Cor. 1	2003-04-04			In-force
		Cable modems		-
J.190	2007-07-29	Architecture of MediaHomeNet		In-force
J.191	2004-03-15	IP feature package to enhance cable modems		In-force
J.192	2005-11-29	A residential gateway to support the delivery of cable data services		In-force
J.193	2004-06-29	Requirements for the next generation of set-top-boxes		In-force
J.197	2005-11-29	High level requirements for a Digital Rights Management (DRM) bridge from a cable access network to a home network		In-force
J.199	2006-11-29	Battery backup for cable-based devices		In-force
		Application for Interactive Digital Television		-
J.200	2010-04-29	Worldwide common core – Application environment for digital interactive television services		In-force
J.201	2009-12-14	Harmonization of declarative content format for interactive television applications		In-force
J.202	2010-08-13	Harmonization of procedural content formats for interactive TV applications		In-force
J.203	2008-06-13	Common core for digital video recorder platform		In-force
J.204	2008-06-13	Metrics gathering specification		In-force
J.205	2012-01-13	Requirements for an application control framework using integrated broadcast and broadband digital television		In-force
J.205 (2005) Cor. 1	2013-01-18	Requirements for an application control framework using integrated broadcast and broadband digital television		In-force

Number	Approval date	Recommendation Title	Observation	Status
		Interactive systems for digital television distribution		-
J.210	2006-11-29	Downstream RF interface for cable modem termination systems		In-force
J.211	2006-11-29	Timing interface for cable modem termination systems		In-force
J.212	2006-11-29	Downstream external Physical layer interface for modular cable modem termination systems		In-force
J.213	2006-11-29	Layer 2 virtual private networks for IP cable modem systems		In-force
J.214	2007-07-29	Cable modem TDM emulation interface		In-force
J.215	2007-12-14	Client digital program insertion API		In-force
J.218	2007-07-29	Cable modem IPv4 and IPv6 eRouter specification		In-force
J.222.0	2007-12-14	Third-generation transmission systems for interactive cable television services – IP cable modems: Overview		In-force
J.222.1	2007-07-29	Third-generation transmission systems for interactive cable television services – IP cable modems: Physical layer specification		In-force
J.222.2	2007-07-29	Third-generation transmission systems for interactive cable television services – IP cable modems: MAC and Upper Layer protocols		In-force
J.222.3	2007-11-02	Third-generation transmission systems for interactive cable television services – IP cable modems: Security services		Pre-published
		Measurement of the quality of service		-
J.240	2004-06-29	Framework for remote monitoring of transmitted picture signal-to-noise ratio using spread-spectrum and orthogonal transform		In-force
J.241	2005-04-06	Quality of service ranking and measurement methods for digital video services delivered over broadband IP networks		In-force
J.242	2006-12-14	A method to reconstruct the received video sequence seen at the receiver using transmission error information to monitor the perceptual video quality at the receiver in digital cable television and video telephony		In-force
J.243	2006-11-29	Requirements for operational monitoring in television programme transmission chains		In-force
J.244	2008-04-06	Full reference and reduced reference calibration methods for video transmission systems with constant misalignment of spatial and temporal domains with constant gain and offset		In-force
J.245	2008-08-13	Subjective assessment method of picture quality assessed in the home		In-force
J.246	2008-08-13	Perceptual visual quality measurement techniques for multimedia services over digital cable television networks in the presence of a reduced bandwidth reference		In-force

Number	Approval date	Recommendation Title	Observation	Status
J.247	2008-08-13	Objective perceptual multimedia video quality measurement in the presence of a full reference		In-force
J.248	2008-06-13	Requirements for operational monitoring of video-to-audio delay in the distribution of television programs		In-force
J.249	2010-01-13	Perceptual video quality measurement techniques for digital cable television in the presence of a reduced reference		In-force
		IPCablecom		-
J.260	2005-01-21	Requirements for preferential telecommunications over IPCablecom networks		In-force
J.261	2009-10-30	Framework for implementing preferential telecommunications in IPCablecom and IPCablecom2 networks		In-force
J.262	2009-10-30	Specifications for authentication in preferential telecommunications over IPCablecom2 networks		In-force
J.263	2009-10-30	Specification for priority in preferential telecommunications over IPCablecom2 networks		In-force
		Digital transmission of television signals		In-force
J.280	2005-12-14	Digital Program Insertion: Splicing application program interface	After approval of an amendment to J.280 (2004) on 14.12.2005, it was decided to republish the full text of the Recommendation as a new edition numbered J.280 (2006)	In-force
J.281	2005-03-01	Requirements for multichannel video signal transmission over IP-based fibre network		In-force
J.282	2006-11-29	Architecture of multi-channel video signal distribution over IP-based networks		In-force
J.283	2006-11-29	IP network architecture with network layer route diversity providing resilient IP multicast video distribution		In-force
J.284	2007-12-14	Requirements and framework for gathering electronic content over IP-based network		In-force
J.285	2007-12-14	Architecture for synchronised programme transfer with pull operation over IP-based networks		In-force
J.286	2009-03-22	Seamless splicing for heterogeneous ITU-T H.262 | ISO/IEC 13818-2 (MPEG-2 video) and ITU-T H.264 | ISO/IEC 14496-10 bitstreams		In-force
		Cable modems		-
J.290	2006-11-29	Next generation set-top box core architecture		In-force
J.291	2006-11-29	Next generation set-top-box cable architecture		In-force
J.292	2006-11-29	Next generation set-top box media-independent architecture		In-force

Number	Approval date	Recommendation Title	Observation	Status
J.293	2008-06-13	Component definition and interface specification for the next generation set-top box		In-force
J.294	2010-09-13	Residential gateway requirements for the support of broadcast and IP-based interactive services over cable television networks		In-force
J.295	2012-01-13	Functional requirements for a hybrid cable set-top box		In-force
J.296	2012-06-29	Specifications for a hybrid cable set-top box		Pre-published
		Measurement of the quality of service		In-force
J.340	2010-06-29	Reference algorithm for computing peak signal to noise ratio of a processed video sequence with compensation for constant spatial shifts, constant temporal shift, and constant luminance gain and offset		In-force
J.341	2011-01-13	Objective perceptual multimedia video quality measurement of HDTV for digital cable television in the presence of a full reference		In-force
J.342	2011-04-29	Objective multimedia video quality measurement of HDTV for digital cable television in the presence of a reduced reference signal		In-force
		IPCablecom		-
J.360	2006-11-29	IPCablecom2 architecture framework		In-force
J.360 (2006) Amd. 1	2007-06-20	New appendix IV – Home subscriber server (HSS)		In-force
J.360 (2006) Amd. 2	2008-06-13	Modification to provisioning		In-force
J.361	2006-11-29	IPCablecom2 codec and media		In-force
J.361 (2006) Amd. 1	2007-07-29			Pre-published
J.362	2006-11-29	IPCablecom2 control point discovery		In-force
J.363	2006-11-29	IPCablecom2 data collection to support accounting		In-force
J.365	2006-11-29	IPCablecom2 application manager interface		In-force
J.366.0	2006-11-29	IPCablecom2 IP Multimedia Subsystem (IMS): Delta Recommendations overview		In-force
J.366.1	2007-07-29	Organization of subscriber data specification	Published in English only	In-force
J.366.5	2007-07-29	IP multimedia subsystem Cx and Dx interfaces; Signalling flows and message contents specification	Published in English only	In-force
J.366.6	2007-07-29	Specification of the Cx and Dx interfaces based on the Diameter protocol	Published in English only	In-force
J.366.8	2006-11-29	IPCablecom2 IP Multimedia Subsystem (IMS): Network domain security specification		In-force

Number	Approval date	Recommendation Title	Observation	Status
J.366.9	2006-11-29	IPCablecom2 IP Multimedia Subsystem (IMS): Generic authentication architecture specification (3GPP TS 33.220)	Published in English only	In-force
J.366.10	2007-07-29	Zh and Zn interfaces based on the Diameter protocol; Stage 3 specification	Published in English only	In-force
J.367	2008-06-13	IPCablecom2 presence specification		In-force
J.368	2008-06-13	IPCablecom2 quality of service specification		In-force
J.369	2008-06-13	IPCablecom2 E-UE provisioning framework specification		In-force
J.370	2008-06-13	IPCablecom2 embedded user equipment provisioning data model specification		In-force
		Digital transmission of television signals		In-force
J.380.1	2011-11-13	Digital program insertion - Advertising systems interfaces – Advertising systems overview		In-force
J.380.2	2011-11-13	Digital program insertion - Advertising systems interfaces - Core data elements		In-force
J.380.3	2011-11-13	Digital program insertion - Advertising systems interfaces - Management interface		In-force
J.380.4	2011-11-13	Digital program insertion - Advertising systems interfaces - Content information service		In-force
J.380.5	2011-11-13	Digital program insertion - Advertising systems interfaces - Placement opportunity information service		In-force
J.380.6	2011-11-13	Digital program insertion - Advertising systems interfaces - Subscriber information service		In-force
J.380.7	2011-11-13	Digital program insertion - Advertising systems interfaces - Message transport		In-force
J.380.8	2011-11-13	Digital program insertion - Advertising systems interfaces - General information service		In-force
J.381	2012-09-22	Requirements for advanced digital cable transmission technologies		In-force
J.388	2010-08-29	Real-time video and audio transmission system over IP networks		In-force
		IPCablecom		In-force
J.460.0	2008-06-13	IPCablecom2 residential SIP telephony: Feature definition		In-force
J.460.1	2008-06-13	IPCablecom2 residential SIP telephony: Feature specification		In-force
J.460.2	2008-06-13	IPCablecom2 residential SIP telephony: embedded digital voice adapter (E-DVA) specification		In-force
J.460.3	2008-09-19	IPCablecom2 residential SIP telephony: Usage data recording		In-force
J.460.4	2008-06-13	IPCablecom2 residential SIP telephony: Embedded-user equipment provisioning specification		In-force
		Transport of Large Screen Digital Imagery		-

Number	Approval date	Recommendation Title	Observation	Status
J.600	2004-06-29	Transport of Large Screen Digital Imagery (LSDI) applications that employ MPEG-2 encoded HDTV signals		In-force
J.601	2005-11-29	Transport of Large Screen Digital Imagery (LSDI) applications for its expanded hierarchy		In-force
J.601 (2005) Amd. 1	2007-07-29	Modification of required picture and scanning characteristics		In-force
J.602	2008-06-13	Network service operator's requirements for real-time transmission of exLSDI signals under parallel processing functionality		In-force
J.603	2011-04-29	Real-time transmission system for signals of an expanded hierarchy of large screen digital imagery using spatial image segmentation for parallel processing		In-force
		Secondary distribution of IPTV services		In-force
J.700	2009-12-14	IPTV service requirements and framework for secondary distribution		In-force
J.701	2008-10-29	Broadcast-centric IPTV terminal middleware		In-force
J.702	2008-10-29	Enablement of current terminal devices for the support of IPTV services		In-force
J.703	2010-03-01	IPTV client control interface definition		In-force
J.704	2009-12-14	Functional requirements of the service provider interface for television primary and secondary distribution and associated interactive services		In-force
J.705	2011-01-13	IPTV client provisioning, activation, configuration and management interface definition		In-force
J.706	2012-01-13	Overview of the distribution of target-specific content		In-force
J.707	2012-01-13	Messages and protocols enabling the distribution of target-specific content within integrated broadband cable networks		In-force
		Multimedia over IP in cable		-
J.800.0	2008-08-22	Cable assigned names and numbers		In-force
J.800.1	2008-08-22	Cable DHCP Registry		In-force
J.800.2	2008-06-13	Cable definition MIB specification		In-force
		Transmission of 3-D TV services		-
J.901	2008-06-13	Requirements for the free viewpoint television (FTV) video transmission system		In-force
J.902	2012-01-13	Multilayered data structure for scalable view-range representation		In-force
		Conditional access and protection		In-force
J.1001	2012-01-13	Requirements for renewable conditional access system		Pre-published
		Switched digital video over cable networks		In-force
J.1101	2012-06-13	Functional requirements for IP-based switched digital video using data over cable service interface specifications		In-force

Number	Approval date	Recommendation Title	Observation	Status
		Supplements to the Series J Recommendations		-
J Suppl. 1	1998-11-19	Example of linking options between annexes of ITU-T Recommendation J.112 and annexes of ITU-T Recommendation J.83		In-force
J Suppl. 2	1998-11-19	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		In-force
J Suppl. 3	1998-11-19	Guidelines for the implementation of Recommendation J.111 "Network independent protocols" – Example of digital video broadcasting (DVB) systems for interactive services		In-force
J Suppl. 5	1999-09-17	Guidelines on the use of some ITU-T Recommendations in the J series		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series K : Protection against interference				
K.5	1988-11-25	Joint use of poles for electricity distribution and for telecommunications		In-force
K.6	1988-11-25	Precautions at crossings		In-force
K.7	1988-11-25	Protection against acoustic shock		In-force
K.8	1988-11-25	Separation in the soil between telecommunication cables and earthing system of power facilities		In-force
K.9	1988-11-25	Protection of telecommunication staff and plant against a large earth potential due to a neighbouring electric traction line		In-force
K.10	1996-10-18	Low frequency interference due to unbalance about earth of telecommunication equipment		In-force
K.11	2009-01-13	Principles of protection against overvoltages and overcurrents		In-force
K.12	2010-05-29	Characteristics of gas discharge tubes for the protection of telecommunications installations		In-force
K.13	1988-11-25	Induced voltages in cables with plastic-insulated conductors		In-force
K.14	1988-11-25	Provision of a metallic screen in plastic-sheathed cables		In-force
K.18	1988-11-25	Calculation of voltage induced into telecommunication lines from radio station broadcasts and methods of reducing interference		In-force
K.19	1988-11-25	Joint use of trenches and tunnels for telecommunication and power cables		In-force
K.20	2011-11-13	Resistibility of telecommunication equipment installed in a telecommunications centre to overvoltages and overcurrents		In-force
K.21	2011-11-13	Resistibility of telecommunication equipment installed in customer premises to overvoltages and overcurrents		In-force
K.23	1988-11-25	Types of induced noise and description of noise voltage parameters for ISDN basic user networks		In-force
K.24	1988-11-25	Method for measuring radio-frequency induced noise on telecommunications pairs		In-force
K.26	2008-04-13	Protection of telecommunication lines against harmful effects from electric power and electrified railway lines		In-force
K.27	1996-05-08	Bonding configurations and earthing inside a telecommunication building		In-force
K.28	2012-05-29	Parameters of thyristor-based surge protective devices for the protection of telecommunication installations		In-force
K.29	1992-01-15	Coordinated protection schemes for telecommunication cables below ground		In-force

Number	Approval date	Recommendation Title	Observation	Status
K.34	2003-07-29	Classification of electromagnetic environmental conditions for telecommunication equipment – Basic EMC Recommendation		In-force
K.35	1996-05-08	Bonding configurations and earthing at remote electronic sites		In-force
K.36	1996-05-08	Selection of protective devices		In-force
K.37	1999-02-26	Low and high frequency EMC mitigation techniques for telecommunication installations and systems – Basic EMC Recommendation		In-force
K.38	1996-10-18	Radiated emission test procedure for physically large systems		In-force
K.39	1996-10-18	Risk assessment of damages to telecommunication sites due to lightning discharges		In-force
K.40	1996-10-18	Protection against LEMP in telecommunications centres		In-force
K.42	1998-05-15	Preparation of emission and immunity requirements for telecommunication equipment – General principles		In-force
K.43	2009-07-14	Immunity requirements for telecommunication network equipment		In-force
K.44	2012-05-29	Resistibility tests for telecommunication equipment exposed to overvoltages and overcurrents – Basic Recommendation		Pre-published
K.45	2011-11-13	Resistibility of telecommunication equipment installed in the access and trunk networks to overvoltages and overcurrents		In-force
K.46	2012-05-29	Protection of telecommunication lines using metallic symmetric conductors against lightning-induced surges		In-force
K.47	2012-05-29	Protection of telecommunication lines against direct lightning flashes		In-force
K.48	2006-09-22	EMC requirements for telecommunication equipment – Product family Recommendation		In-force
K.49	2005-12-16	Test requirements and performance criteria for voice terminal telephones subject to disturbance from digital mobile telecommunications systems		In-force
K.50	2000-02-25	Safe limits of operating voltages and currents for telecommunication systems powered over the network		In-force
K.51	2009-07-14	Safety criteria for telecommunication equipment		In-force
K.52	2004-12-14	Guidance on complying with limits for human exposure to electromagnetic fields		In-force
K.52 (2004) Cor.1	2009-05-29			In-force
K.54	2004-12-14	Conducted immunity test method and level at fundamental power frequencies		In-force

Number	Approval date	Recommendation Title	Observation	Status
K.55	2002-08-13	Overvoltage and overcurrent requirements for insulation displacement connectors (IDC) terminations		In-force
K.56	2010-01-13	Protection of radio base stations against lightning discharges		In-force
K.57	2003-09-06	Protection measures for radio base stations sited on power line towers		In-force
K.58	2008-04-13	EMC, resistibility and safety requirements and guidance for determining responsibility under co-located telecommunication installations		In-force
K.59	2003-07-29	EMC, resistibility and safety requirements and procedures for connection to unbundled cables		In-force
K.60	2008-02-29	Emission levels and test methods for wireline telecommunication networks to minimize electromagnetic disturbance of radio services		In-force
K.60 (2008) Amd.1	2009-05-29	Clarification to scope		In-force
K.61	2008-02-29	Guidance on measurement and numerical prediction of electromagnetic fields for compliance with human exposure limits for telecommunication installations		In-force
K.62	2004-02-29	System level radiated emissions compliance using mathematical modelling		In-force
K.63	2004-02-29	Maintaining the suitability of production telecommunications equipment to its intended electromagnetic environment		In-force
K.64	2011-01-13	Safe working practices for outside equipment installed in particular environments		In-force
K.65	2011-01-13	Overvoltage and overcurrent requirements for termination modules with contacts for test ports or surge protective devices		In-force
K.66	2011-06-13	Protection of customer premises from overvoltages		In-force
K.67	2006-02-13	Expected surges on telecommunications and signalling networks due to lightning		In-force
K.68	2008-04-13	Operator responsibilities in the management of electromagnetic interference by power systems on telecommunication systems		In-force
K.69	2006-10-29	Maintenance of protective measures		In-force
K.70	2007-06-29	Mitigation techniques to limit human exposure to EMFs in the vicinity of radiocommunication stations	This Recommendation contains a software EMF-estimator that implements the methodology described in ITU-T K.70, and gives the possibility to calculate the cumulative exposure for the reference levels. It also contains the library of the radiation patterns	In-force
K.70 (2007) Amd.2	2011-05-05	Appendix I – New version v.2.0.0 of the software EMF estimator		In-force

Number	Approval date	Recommendation Title	Observation	Status
K.71	2011-06-13	Protection of customer antenna installations		In-force
K.72	2011-06-13	Protection of telecommunication lines using metallic conductors against lightning – Risk management		In-force
K.73	2008-04-13	Shielding and bonding for cables between buildings		In-force
K.74	2008-09-22	EMC, resistibility and safety requirements for home network devices		In-force
K.75	2008-04-13	Classification of interface for application of standards on resistibility and safety of telecommunication equipment		In-force
K.76	2008-07-07	EMC requirements for telecommunication network equipment (9 kHz-150 kHz)		In-force
K.77	2009-01-13	Characteristics of metal oxide varistors for the protection of telecommunication installations		In-force
K.77 (2009) Cor.1	2011-05-05			In-force
K.78	2009-06-29	High altitude electromagnetic pulse immunity guide for telecommunication centres		In-force
K.79	2009-06-13	Electromagnetic characterization of the radiated environment in the 2.4 GHz ISM band		In-force
K.80	2009-07-14	EMC requirements for telecommunication network equipment (1 GHz - 6 GHz)		In-force
K.81	2009-11-29	High-power electromagnetic immunity guide for telecommunication systems		In-force
K.82	2010-05-29	Characteristics and ratings of solid-state, self-restoring overcurrent protectors for the protection of telecommunications installations		In-force
K.83	2011-03-09	Monitoring of electromagnetic field levels	The edition posted on 25 July 2011 did not reflect the correct title. That edition was removed and a corrected edition was posted on 20 December 2011.	In-force
K.83 (2011) Erratum 1	2012-09-25		Concerns only the Spanish version	-
K.84	2011-01-13	Test methods and guide against information leaks through unintentional electromagnetic emissions		In-force
K.85	2011-11-13	Requirements for the mitigation of lightning effects on home networks installed in customer premises		In-force
K.86	2011-11-13	Method for measuring longitudinal conversion loss (9 kHz - 30 MHz)		In-force
K.87	2011-11-13	Guide for the application of electromagnetic security requirements - Overview		In-force
K.88	2011-11-13	EMC requirements for next generation network equipment		In-force

Number	Approval date	Recommendation Title	Observation	Status
K.89	2012-05-29	Protection of persons inside a structure using telecommunication services provided by metallic conductors against lightning - Risk management		In-force
K.90	2012-05-29	Evaluation techniques and working procedures for compliance with exposure limits of network operator personnel to power-frequency electromagnetic fields		In-force
K.91	2012-05-29	Guidance for assessment, evaluation and monitoring of human exposure to radio frequency electromagnetic fields		Pre-published
K.92	2012-05-29	Conducted and radiated electromagnetic environment in home networking		In-force
K.93	2012-05-29	Immunity of home network devices to electromagnetic disturbances		In-force
K.94	2012-05-29	Mutual disturbance test method for evaluating performance degradation of converged terminal devices		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series L : Construction, installation and protection of cables and other elements of outside plant				
L.1	1988-11-25	Construction, installation and protection of telecommunication cables in public networks		In-force
L.2	1988-11-25	Impregnation of wooden poles		In-force
L.3	1988-11-25	Armouring of cables		In-force
L.4	1988-11-25	Aluminium cable sheaths		In-force
L.5	1988-11-25	Cable sheaths made of metals other than lead or aluminium		In-force
L.6	1988-11-25	Methods of keeping cables under gas pressure	The electronic copy of this Recommendation is freely available on ITU website	In-force
L.7	1988-11-25	Application of joint cathodic protection		In-force
L.8	1988-11-25	Corrosion caused by alternating current		In-force
L.9	1988-11-25	Methods of terminating metallic cable conductors		In-force
L.10	2002-12-22	Optical fibre cables for duct and tunnel application		In-force
L.11	1988-11-25	Joint use of tunnels by pipelines and telecommunication cables, and the standardization of underground duct plans		In-force
L.12	2008-03-08	Optical fibre splices		In-force
L.13	2003-04-11	Performance requirements for passive optical nodes: Sealed closures for outdoor environments		In-force
L.14	1992-07-31	Measurement method to determine the tensile performance of optical fibre cables under load		In-force
L.17	1995-06-20	Implementation of connecting customers into the public switched telephone network (PSTN) via optical fibres		In-force
L.17 App. I	1997-02-07	Examples of possible applications		In-force
L.18	2008-05-29	Sheath closures for terrestrial copper telecommunication cables		In-force
L.19	2010-05-29	Multi-pair copper network cable supporting shared multiple services such as POTS, ISDN and xDSL		In-force
L.20	1996-10-18	Creation of a fire security code for telecommunication facilities		In-force
L.21	1996-10-18	Fire detection and alarm systems, detector and sounder devices		In-force
L.22	1996-10-18	Fire protection		In-force
L.23	1996-10-18	Fire extinction – Classification and location of fire extinguishing installations and equipment on premises		In-force
L.24	2009-11-29	Classification of outside plant waste		In-force
L.25	1996-10-18	Optical fibre cable network maintenance		In-force
L.26	2002-12-22	Optical fibre cables for aerial application		In-force
L.27	1996-10-18	Method for estimating the concentration of hydrogen in optical fibre cables		In-force

Number	Approval date	Recommendation Title	Observation	Status
L.28	2002-10-29	External additional protection for marinized terrestrial cables		In-force
L.29	2002-01-13	As-laid report and maintenance/repair log for marinized terrestrial cable installation		In-force
L.30	2007-11-06	Markers on marinized terrestrial cables		In-force
L.31	1996-10-18	Optical fibre attenuators		In-force
L.32	1998-10-09	Protection devices for through-cable penetrations of fire-sector partitions		In-force
L.33	1998-10-09	Periodic control of fire extinction devices in telecommunication buildings		In-force
L.34	1998-10-09	Installation of Optical Fibre Ground Wire (OPGW) cable		In-force
L.35	1998-10-09	Installation of optical fibre cables in the access network		In-force
L.35 (1998) Amd. 1	2007-11-23	New Appendix II – Korean experience with access network installation procedures		In-force
L.36	2008-01-08	Single-mode fibre optic connectors		In-force
L.37	2007-02-22	Optical branching components (non-wavelength selective)		In-force
L.38	1999-09-24	Use of trenchless techniques for the construction of underground infrastructures for telecommunication cable installation		In-force
L.39	2000-05-12	Investigation of the soil before using trenchless techniques		In-force
L.40	2000-10-06	Optical fibre outside plant maintenance support, monitoring and testing system	The text of this Recommendation includes Appendices I to V approved on 09/03/2001	In-force
L.41	2000-05-12	Maintenance wavelength on fibres carrying signals		In-force
L.43	2002-12-22	Optical fibre cables for buried application		In-force
L.44	2000-10-06	Electric power supply for equipment installed as outside plant		In-force
L.45	2000-10-06	Minimizing the effect on the environment from the outside plant in telecommunication networks		In-force
L.46	2000-10-06	Protection of telecommunication cables and plant from biological attack		In-force
L.47	2000-10-06	Access facilities using hybrid fibre/copper networks		In-force
L.48	2003-03-29	Mini-trench installation technique		In-force
L.49	2003-03-29	Micro-trench installation technique		In-force
L.50	2010-07-29	Requirements for passive optical nodes: Optical distribution frames for central office environments		In-force
L.51	2003-04-11	Passive node elements for fibre optic networks – General principles and definitions for characterization and performance evaluation		In-force
L.53	2003-05-14	Optical fibre maintenance criteria for access networks		In-force

Number	Approval date	Recommendation Title	Observation	Status
L.54	2004-02-06	Splice closure for marinized terrestrial cables (MTC)		In-force
L.55	2003-11-28	Digital database for marine cables and pipelines		In-force
L.56	2003-05-14	Installation of optical fibre cables along railways		In-force
L.57	2003-05-14	Air-assisted installation of optical fibre cables		In-force
L.58	2004-03-08	Optical fibre cables: Special needs for access network		In-force
L.59	2008-01-08	Optical fibre cables for indoor applications		In-force
L.60	2004-09-06	Construction of optical/metallic hybrid cables		In-force
L.61	2004-07-29	Optical fibre cable installation by floating technique		In-force
L.62	2004-09-06	Practical aspects of unbundling services by multiple operators in copper access networks		In-force
L.63	2004-10-07	Safety procedures for outdoor installations		In-force
L.64	2012-10-29	ID tag requirements for infrastructure and network elements management		Pre-published
L.66	2007-05-18	Optical fibre cable maintenance criteria for in-service fibre testing in access networks		In-force
L.67	2006-10-29	Small count optical fibre cables for indoor applications		In-force
L.68	2007-10-22	Optical fibre cable maintenance support, monitoring and testing system for optical fibre cable networks carrying high total optical power		In-force
L.69	2007-06-29	Personal digital assistant requirements and relevant data structure for infrastructure and network elements management		In-force
L.70	2007-11-06	Managing active electronics in the outside plant		In-force
L.71	2008-01-08	Design, construction, and installation of network cables for broadband access including metallic networks connected to optical fibre networks		In-force
L.72	2008-01-08	Databases for optical access network infrastructure		In-force
L.73	2008-04-06	Methods for inspecting and repairing underground plastic ducts		In-force
L.74	2008-04-06	Maintenance of cable tunnels		In-force
L.75	2008-05-29	Test, acceptance and maintenance methods of copper subscriber pairs		In-force
L.76	2008-05-29	Copper loop requirements for various technologies including indoor and structured cabling		In-force
L.77	2008-05-29	Installation of optical fibre cables inside sewer ducts		In-force
L.78	2008-05-29	Optical fibre cable construction for sewer duct applications		In-force
L.78 (2008) Amd. 1	2010-06-11	New Appendix III – Italian experience: Construction of special optical fibre cables for extreme applications in sewer ducts		In-force

Number	Approval date	Recommendation Title	Observation	Status
L.79	2008-07-07	Optical fibre cable elements for microduct blowing-installation application		In-force
L.80	2008-05-29	Operations support system requirements for infrastructure and network elements management using ID techonology		In-force
L.81	2009-11-13	Monitoring systems for outside plant facilities		In-force
L.82	2010-07-29	Optical cabling shared with multiple operators in buildings		In-force
L.83	2010-07-29	Low impact trenching technique for FTTx networks		In-force
L.84	2010-07-29	Fast mapping of underground networks		In-force
L.85	2010-07-29	Optical fibre identification for the maintenance of optical access networks		In-force
L.86	2010-07-29	Considerations on the installation site of branching components in passive optical networks for fibre to the home		In-force
L.87	2010-07-29	Optical fibre cables for drop applications		In-force
L.88	2010-07-29	Management of poles carrying overhead telecommunication lines		In-force
L.89	2012-02-13	Design of suspension wires, telecommunication poles and guy-lines for optical access networks		In-force
L.90	2012-02-13	Optical access network topologies for broadband services		In-force
L.92	2012-10-29	Disaster management for outside plant facilities		Pre-published
L.1000	2011-06-13	Universal power adapter and charger solution for mobile terminals and other hand-held ICT devices		In-force
L.1001	2012-11-29	External universal power adapter solutions for stationary information and communication technology devices		Pre-published
L.1100	2012-02-22	Procedure for recycling rare metals in information and communication technology goods		In-force
L.1200	2012-05-29	Direct current power feeding interface up to 400 V at the input to telecommunication and ICT equipment		In-force
L.1300	2011-11-29	Best practices for green data centres		In-force
L.1310	2012-11-06	Energy efficiency metrics and measurement methods for telecommunication equipment		Pre-published
L.1400	2011-02-22	Overview and general principles of methodologies for assessing the environmental impact of information and communication technologies		In-force
L.1410	2012-03-08	Methodology for the assessment of the environmental impact of information and communication technology goods, networks and services		In-force

Number	Approval date	Recommendation Title	Observation	Status
L.1420	2012-02-06	Methodology for energy consumption and greenhouse gas emissions impact assessment of information and communication technologies in organizations		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series : Telecommunication management, including TMN and network maintenance				
		Introduction and general principles of maintenance and maintenance organization		-
M.10	1992-10-05	Scope and application of Recommendations for maintenance of telecommunication networks and services		In-force
M.15	1988-11-25	Maintenance considerations for new systems		In-force
M.20	1992-10-05	Maintenance philosophy for telecommunication networks		In-force
M.21	1992-10-05	Maintenance philosophy for telecommunication services		In-force
M.32	1988-11-25	Principles for using alarm information for maintenance of international transmission systems and equipment	Former M.22 (1984)	In-force
M.34	1988-11-25	Performance monitoring on international transmission systems and equipment	Former M.24 (1984)	In-force
M.35	1988-11-25	Principles concerning line-up and maintenance limits	Former M.25 (1984)	In-force
M.50	1988-11-25	Use of telecommunication terms for maintenance		-
M.60	1993-03-12	Maintenance terminology and definitions		In-force
M.70	1988-11-25	Guiding principles on the general maintenance organization for telephone-type international circuits		In-force
M.75	1992-10-05	Technical service		In-force
M.80	1988-11-25	Control stations		In-force
M.85	1992-10-05	Fault report points		In-force
M.90	1988-11-25	Sub-control stations		In-force
M.100	1988-11-25	Service circuits		In-force
M.110	1988-11-25	Circuit testing		In-force
M.120	1988-11-25	Access points for maintenance		In-force
M.125	1988-11-25	Digital loopback mechanisms		In-force
M.160	1988-11-25	Stability of transmission		In-force
		International transmission systems		In-force
M.320	1988-11-25	Numbering of the channels in a group		In-force
M.330	1988-11-25	Numbering of groups within a supergroup		In-force
M.340	1988-11-25	Numbering of supergroups within a mastergroup		In-force
M.350	1988-11-25	Numbering of mastergroups within a supermastergroup		In-force
M.380	1988-11-25	Numbering in coaxial systems		In-force
M.390	1988-11-25	Numbering in systems on symmetric pair cable		In-force
M.400	1988-11-25	Numbering in radio-relay links or open-wire line systems		In-force
M.410	1988-11-25	Numbering of digital blocks in transmission systems		In-force
M.450	1988-11-25	Bringing a new international transmission system into service		In-force

Number	Approval date	Recommendation Title	Observation	Status
M.460	1988-11-25	Bringing international group, supergroup, etc., links into service		In-force
M.470	1988-11-25	Setting up and lining up analogue channels for international telecommunication services		In-force
M.475	1988-11-25	Setting up and lining up mixed analogue/digital channels for international telecommunication services		In-force
M.495	1988-11-25	Transmission restoration and transmission route diversity: Terminology and general principles		In-force
M.496	1988-11-25	Functional organization for automatic transmission restoration		In-force
M.500	1988-11-25	Routine maintenance measurements to be made on regulated line sections		In-force
M.510	1988-11-25	Readjustment to the nominal value of a regulated line section (on a symmetric pair line, a coaxial line or a radio-relay link)		In-force
M.520	1988-11-25	Routine maintenance on international group, supergroup, etc., links		In-force
M.525	1988-11-25	Automatic maintenance procedures for international group, supergroup, etc., links		In-force
M.530	1988-11-25	Readjustment to the nominal value of an international group, supergroup, etc., link		In-force
M.535	1988-11-25	Special maintenance procedures for multiple destination, unidirectional (MU) group and supergroup links		In-force
M.540	1988-11-25	Routine maintenance of carrier and pilot generating equipment		In-force
M.556	1988-11-25	Setting up and initial testing of digital channels on an international digital path or block	Former M.480 (1984)	In-force
		International telephone circuits		-
M.560	1988-11-25	International telephone circuits – Principles, definitions and relative transmission levels		In-force
M.562	1988-11-25	Types of circuit and circuit section		In-force
M.565	1988-11-25	Access points for international telephone circuits		In-force
M.570	1988-11-25	Constitution of the circuit; preliminary exchange of information		In-force
M.580	1988-11-25	Setting up and lining up an international circuit for public telephony		In-force
M.585	1988-11-25	Bringing an international digital circuit into service		In-force
M.590	1988-11-25	Setting up and lining up a circuit fitted with a compandor		In-force
M.600	1988-11-25	Organization of routine maintenance measurements on circuits		In-force
M.605	1988-11-25	Routine maintenance schedule for international public telephony circuits		In-force
M.610	1988-11-25	Periodicity of maintenance measurements on circuits		In-force

Number	Approval date	Recommendation Title	Observation	Status
M.620	1988-11-25	Methods for carrying out routine measurements on circuits		In-force
M.630	1988-11-25	Maintenance of circuits using control chart methods		In-force
M.650	1988-11-25	Routine line measurements to be made on the line repeaters of audio-frequency sections or circuits		In-force
M.660	1988-11-25	Periodical in-station tests of echo suppressors complying with Recommendations G.161 and G.164		In-force
M.665	1988-11-25	Testing of echo cancellers		In-force
M.670	1988-11-25	Maintenance of a circuit fitted with a compandor		In-force
M.675	1988-11-25	Lining up and maintaining international demand assignment circuits (SPADE)		In-force
M.710	1988-11-25	General maintenance organization for the international automatic and semi-automatic telephone service		In-force
M.715	1988-11-25	Fault report point (circuit)		In-force
M.716	1988-11-25	Fault report point (network)		In-force
M.717	1988-11-25	Testing point (transmission)		In-force
M.718	1988-11-25	Testing point (line signalling)		In-force
M.719	1988-11-25	Testing point (switching and interregister signalling)		In-force
M.720	1988-11-25	Network analysis point		In-force
M.721	1988-11-25	System availability information point		In-force
M.722	1980-11-21	Network management point	The organization for international network management has been further developed and is specified since 1984 in Rec. E.413	In-force
M.723	1988-11-25	Circuit control station		In-force
M.724	1988-11-25	Circuit sub-control station		In-force
M.725	1988-11-25	Restoration control point		In-force
M.726	1988-11-25	Maintenance organization for the wholly digital international automatic and semi-automatic telephone service		In-force
M.727	2011-03-01	Planned outage notification point		In-force
M.729/V.51	1988-11-25	Organization of the maintenance of international public switched telephone circuits used for data transmission	This Recommendation is also included but not published in V series under alias number V.51	In-force
M.730	1988-11-25	Maintenance methods		In-force
M.731	1988-11-25	Subjective testing		In-force
M.732	1988-11-25	Signalling and switching routine maintenance tests and measurements		In-force
M.733	1988-11-25	Transmission routine maintenance measurements on automatic and semi-automatic telephone circuits		In-force

Number	Approval date	Recommendation Title	Observation	Status
M.734	1988-11-25	Exchange of information on incoming test facilities at international switching centres		In-force
		Common channel signalling systems		-
M.760	1988-11-25	Transfer link for common channel Signalling System No. 6		In-force
M.762	1988-11-25	Maintenance of common channel Signalling System No. 6		In-force
		International telegraph systems and phototelegraph transmission		-
M.800	1988-11-25	Use of circuits for voice-frequency telegraphy		In-force
M.810	1988-11-25	Setting up and lining up an international voice-frequency telegraph link for public telegraph circuits (for 50, 100 and 200 baud modulation rates)		In-force
M.820	1988-11-25	Periodicity of routine tests on international voice-frequency telegraph links		In-force
M.830	1988-11-25	Routine measurements to be made on international voice-frequency telegraph links		In-force
M.850	1988-11-25	International time division multiplex (TDM) telegraph systems		In-force
M.880	1988-11-25	International phototelegraph transmission		In-force
		International leased group and supergroup links		In-force
M.900	1988-11-25	Use of leased group and supergroup links for wide-spectrum signal transmission (data, facsimile, etc.)		In-force
M.910	1988-11-25	Setting up and lining up an international leased group link for wide-spectrum signal transmission		In-force
		International leased circuits		-
M.1010	1988-11-25	Constitution and nomenclature of international leased circuits		In-force
M.1012	1988-11-25	Circuit control station for leased and special circuits		In-force
M.1013	1988-11-25	Sub-control station for leased and special circuits		In-force
M.1014	1988-11-25	Transmission maintenance point (international line) (TMP-IL)		In-force
M.1015	1988-11-25	Types of transmission on leased circuits		In-force
M.1016	1988-11-25	Assessment of the service availability performance of international leased circuits		In-force
M.1020	1993-03-12	Characteristics of special quality international leased circuits with special bandwidth conditioning		In-force
M.1025	1993-03-12	Characteristics of special quality international leased circuits with basic bandwidth conditioning		In-force
M.1030	1988-11-25	Characteristics of ordinary quality international leased circuits forming part of private switched telephone networks		In-force
M.1040	1988-11-25	Characteristics of ordinary quality international leased circuits		In-force

Number	Approval date	Recommendation Title	Observation	Status
M.1045	1996-05-12	Preliminary exchange of information for the provision of international leased circuits and international data transmission systems		In-force
M.1050	1998-06-26	Lining up an international point-to-point leased circuit with analogue presentation to the user		In-force
M.1055	1988-11-25	Lining up an international multiterminal leased circuit		In-force
M.1060	1988-11-25	Maintenance of international leased circuits		In-force
		Mobile telecommunication systems and services		-
M.1130	1992-10-05	General definitions and general principles of operation/maintenance procedures to be used in satellite mobile systems		In-force
M.1140	1992-10-05	Maritime mobile telecommunication services via satellite	Replaces M.1100+M.1110+M.1120	In-force
M.1150	1997-04-19	Maintenance aspects of maritime/land mobile telecommunication store-and-forward services (packet mode) via satellite		In-force
M.1160	1997-04-19	Maintenance aspects of aeronautical mobile telecommunication service via satellite		In-force
M.1170	1997-04-19	Maintenance aspects of mobile digital telecommunication service via satellite		In-force
		International public telephone network		-
M.1230	1996-05-12	Method to improve the management of operations and maintenance processes in the international telephone network		In-force
M.1235	1988-11-25	Use of automatically generated test calls for assessment of network performance		In-force
		International data transmission systems		In-force
M.1300	1997-10-24	Maintenance of international data transmission systems operating in the range 2.4 kbit/s to 140 Mbit/s		In-force
M.1301	2001-01-19	General description and operational procedures for international SDH leased circuits		In-force
M.1320	1988-11-25	Numbering of channels in data transmission systems		In-force
M.1340	2000-02-04	Performance objectives, allocations and limits for international PDH leased circuits and supporting data transmission links and systems		In-force
M.1340 (2000) Cor. 1	2001-08-13			In-force
M.1350	1988-11-25	Setting up, lining up and characteristics of international data transmission systems operating in the range 2.4 kbit/s to 14.4 kbit/s		In-force
M.1355	1988-11-25	Maintenance of international data transmission systems operating in the range 2.4 to 14.4 kbit/s		In-force

Number	Approval date	Recommendation Title	Observation	Status
M.1370	1998-06-26	Bringing-into-service of international data transmission systems		In-force
M.1375	1998-06-26	Maintenance of international data transmission systems		In-force
M.1380	2000-02-04	Bringing-into-service of international leased circuits that are supported by international data transmission systems		In-force
M.1385	2000-02-04	Maintenance of international leased circuits that are supported by international data transmission systems		In-force
		Designations and information exchange		In-force
M.1400	2006-07-14	Designations for interconnections among operators' networks		In-force
M.1401	2006-07-14	Formalization of interconnection designations among operators' telecommunication networks		In-force
M.1402	2012-05-14	Formalization of data for service management		In-force
M.1403	2007-08-06	Formalization of generic orders		In-force
M.1404	2007-08-06	Formalization of orders for interconnections among operators' networks		In-force
M.1405	2007-08-06	Formalization of orders for service management among operators		In-force
M.1510	1992-10-05	Exchange of contact point information for the maintenance of international services and the international network	Former CCITT M.93 (1988)	In-force
M.1520	1992-10-05	Standardized information exchange between Administrations		In-force
M.1530	1999-03-26	Network maintenance information		In-force
M.1532	2000-02-04	Network maintenance service performance agreement (MSPA)		In-force
M.1535	1996-05-12	Principles for maintenance information to be exchanged at customer contact point (MICC)		In-force
M.1537	1997-10-24	Definition of maintenance information to be exchanged at customer contact point (MICC)		In-force
M.1539	1999-03-26	Management of the grade of network maintenance services at the Maintenance Service Customer Contact Point (MSCC)		In-force
M.1540	1994-10-15	Exchange of information for planned outages of transmission systems	Former M.490	In-force
M.1541	2011-01-13	Planned outage notification to customers		In-force
M.1550	1992-10-05	Escalation procedure		In-force
M.1560	1992-10-05	Escalation procedure for international leased circuits		In-force
		International transport network		In-force
M.2100	2003-04-13	Performance limits for bringing-into-service and maintenance of international multi-operator PDH paths and connections		In-force
M.2101	2003-06-13	Performance limits for bringing-into-service and maintenance of international multi-operator SDH paths and multiplex sections		In-force

Number	Approval date	Recommendation Title	Observation	Status
M.2102	2000-02-04	Maintenance thresholds and procedures for recovery mechanisms (protection and restoration) of international SDH VC trails (paths) and multiplex sections		In-force
M.2110	2002-07-14	Bringing into service international multi-operator paths, sections and transmission systems		In-force
M.2120	2002-07-14	International multi-operator paths, sections and transmission systems fault detection and localization procedures		In-force
M.2130	2000-02-04	Operational procedures for the maintenance of the transport network		In-force
M.2140	2000-02-04	Transport network event correlation		In-force
M.2201	2001-03-15	Performance objectives, allocations and limits for bringing-into-service and maintenance of international ATM virtual path and virtual channel connections		In-force
M.2301	2002-07-14	Performance objectives and procedures for provisioning and maintenance of IP-based networks		In-force
M.2401	2003-12-14	Error performance limits and procedures for bringing-into-service and maintenance of multi-operator international paths and sections within an optical transport network		In-force
		Telecommunications management network		-
M.3000	2000-02-04	Overview of TMN Recommendations		In-force
M.3010	2000-02-04	Principles for a telecommunications management network		In-force
M.3010 (2000) Amd. 1	2003-12-14	TMN conformance and TMN compliance		In-force
M.3010 (2000) Amd. 2	2005-11-13	Additions and corrections		In-force
M.3013	2000-02-04	Considerations for a telecommunications management network		In-force
M.3016.0	2005-05-22	Security for the management plane: Overview	Formerly ITU-T M.3016	In-force
M.3016.1	2005-04-13	Security for the management plane: Security requirements		In-force
M.3016.1 (2005) Cor. 1	2005-11-13			In-force
M.3016.1 (2005) Amd. 1	2011-07-14	Authentication extension		In-force
M.3016.2	2005-04-13	Security for the management plane: Security services		In-force
M.3016.3	2005-04-13	Security for the management plane: Security mechanism		In-force
M.3016.3 (2005) Amd. 1	2011-07-14	Redundant authentication extension		In-force

Number	Approval date	Recommendation Title	Observation	Status
M.3016.4	2005-04-13	Security for the management plane: Profile proforma		In-force
M.3016.4 (2005) Amd. 1	2011-07-14	Authentication extension		In-force
M.3017	2003-06-22	Framework for the integrated management of hybrid circuit/packet networks		In-force
M.3017 (2003) Amd. 1	2005-04-13	Additional options		In-force
M.3020	2011-07-14	Management interface specification methodology		In-force
M.3030	2002-08-22	Telecommunications Markup Language (tML) framework		In-force
M.3031	2004-07-14	Guidelines for Implementation Conformance Statement proformas for tML schemas		In-force
M.3031 (2004) Cor. 1	2005-11-13			In-force
M.3050.0	2007-03-29	Enhanced Telecom Operations Map (eTOM) – Introduction		In-force
M.3050.1	2007-03-29	Enhanced Telecom Operations Map (eTOM) – The business process framework		In-force
M.3050.2	2007-03-29	Enhanced Telecom Operations Map (eTOM) – Process decompositions and descriptions		In-force
M.3050.3	2007-03-29	Enhanced Telecom Operations Map (eTOM) – Representative process flows		In-force
M.3050.4	2007-03-29	Enhanced Telecom Operations Map (eTOM) – B2B integration: Using B2B inter-enterprise integration with the eTOM		In-force
M.3060/Y.2401	2006-03-22	Principles for the Management of Next Generation Networks		In-force
M.3100	2005-04-29	Generic network information model	This edition includes the modifications introduced by M.3100 (2005) Cor.1 approved on 13 November 2005	In-force
M.3100 (2005) Cor. 1	2005-11-13		This corrigendum was never published, its content having been included in the published ITU-T Rec. M.3100 (04/2005)	In-force
M.3101	1995-07-27	Managed object conformance statements for the generic network information model		In-force
M.3102	2011-01-13	Unified generic management information model for connection-oriented and connectionless networks		In-force
M.3108		TMN management services for dedicated and reconfigurable circuits network		-
M.3108.1	1999-03-26	Information model for management of leased circuit and reconfigurable services		In-force

Number	Approval date	Recommendation Title	Observation	Status
M.3108.1 (1999) Cor. 1	2001-01-19			In-force
M.3108.2	2000-02-04	Information model for connection management of preprovisioned service link connections to form a reconfigurable leased service		In-force
M.3108.3	2001-01-19	Information model for management of virtual private network service		In-force
M.3120	2001-10-07	CORBA generic network and network element level information model		In-force
M.3120 (2001) Amd. 1	2002-05-29	Protection switching		In-force
M.3120 (2001) Amd. 2	2003-03-29			In-force
M.3160	2008-11-13	Generic, protocol-neutral management information model		In-force
M.3170.0	2007-03-16	Multi-technology network management: Introduction and supporting documentation		In-force
M.3170.1	2007-03-16	Multi-technology network management: Business agreement (TMF513)		In-force
M.3170.2	2007-03-16	Multi-technology network management: Information agreement (TMF608)		In-force
M.3170.3	2007-03-16	Multi-technology network management: CORBA IDL solution set (TMF814) with implementation statement templates and guidelines (TMF814A)		In-force
M.3180	1992-10-05	Catalogue of TMN management information		In-force
M.3190	2008-07-14	Shared information and data model (SID)		In-force
M.3200	1997-04-19	TMN management services and telecommunications managed areas: overview		In-force
M.3207.1	1996-05-12	TMN management service: Maintenance aspects of B-ISDN management		In-force
M.3208		TMN management services for dedicated and reconfigurable circuits network		-
M.3208.1	1997-10-24	Leased circuit services		In-force
M.3208.1 (1997) Cor. 1	2000-02-04			In-force
M.3208.2	1999-03-26	Connection management of pre-provisioned service link connections to form a leased circuit service		In-force
M.3208.2 (1999) Cor. 1	2001-01-19			In-force
M.3208.3	2000-02-04	Virtual private network service		In-force
M.3210.1	2001-01-19	TMN management services for IMT-2000 security management		In-force

Number	Approval date	Recommendation Title	Observation	Status
M.3211.1	1996-05-12	TMN management service: Fault and performance management of the ISDN access		In-force
M.3300	1998-06-26	TMN F interface requirements		In-force
M.3320	1997-04-19	Management requirements framework for the TMN X-Interface		In-force
M.3340	2009-05-14	Framework for NGN service fulfilment and assurance management across the business to business and customer to business interfaces		In-force
M.3341	2003-12-14	Requirements for QoS/SLA management over the TMN X-interface for IP-based services		In-force
M.3342	2006-07-14	Guidelines for the definition of SLA representation templates		In-force
M.3343	2007-01-13	Requirements and analysis for NGN trouble administration across B2B and C2B interfaces		In-force
M.3344	2011-01-13	Requirements and analysis for NGN appointment management across the business-to-business and customer-to-business interfaces		In-force
M.3345	2009-05-29	Principles for self-service management		In-force
M.3347	2012-05-14	Requirements for the NGN service activation across the interface between the network management system and the element management system		In-force
M.3348	2011-01-13	Requirements of the NMS-EMS management interface for NGN service platforms		In-force
M.3350	2004-05-07	TMN service management requirements for information interchange across the TMN X-interface to support provisioning of Emergency Telecommunication Service (ETS)		In-force
M.3361	2011-01-13	Requirements for business-to-government management interfaces - B2G interfaces - Introduction		In-force
M.3400	2000-02-04	TMN management functions		In-force
M.3410	2008-08-06	Guidelines and requirements for security management systems to support telecommunications management		In-force
		Integrated services digital networks		-
M.3600	1992-10-05	Principles for the management of ISDNs		In-force
M.3602	1992-10-05	Application of maintenance principles to ISDN subscriber installations	Formerly ITU-T I.602	In-force
M.3603	1992-10-05	Application of maintenance principles to ISDN basic rate access	Formerly ITU-T I.603	In-force
M.3604	1992-10-05	Application of maintenance principles to ISDN primary rate access	Formerly ITU-T I.604	In-force
M.3605	1992-10-05	Application of maintenance principles to static multiplexed ISDN basic rate access	Formerly ITU-T I.605	In-force
M.3610	1996-05-12	Principles for applying the TMN concept to the management of B-ISDN		In-force
M.3611	1997-04-19	Test management of the B-ISDN ATM layer using the TMN		In-force

Number	Approval date	Recommendation Title	Observation	Status
M.3620	1992-10-05	Principles for the use of ISDN test calls, systems and responders		In-force
M.3621	1995-07-27	Integrated management of the ISDN customer access		In-force
M.3640	1992-10-05	Management of the D-channel – Data link layer and network layer		In-force
M.3641	1994-10-15	Management information model for the management of the data link and network layer of the ISDN D-channel		In-force
M.3650	1997-04-19	Network performance measurements of ISDN calls		In-force
M.3660	1992-10-05	ISDN interface management services		In-force
M.3700	2010-01-13	Common management services - Object management - Protocol neutral requirements and analysis		In-force
M.3701	2010-01-13	Common management services - State management - Protocol neutral requirements and analysis		In-force
M.3702	2010-01-13	Common management services - Notification management - Protocol neutral requirement and analysis		In-force
M.3703	2010-06-29	Common management services - Alarm management – Protocol neutral requirements and analysis		In-force
M.3704	2010-01-13	Common management service - Performance management - Protocol neutral requirements and analysis		In-force
		Common channel signalling systems		In-force
M.4010	1992-10-05	Inter-Administration agreements on common channel Signalling System No. 6		In-force
M.4030	1992-10-05	Transmission characteristics for setting up and lining up a transfer link for common channel Signalling System N° 6 (analogue version)		In-force
M.4100	1996-05-12	Maintenance of common channel Signalling System No. 7		In-force
M.4110	1996-05-12	Inter-Administration agreements on common channel Signalling System No. 7		In-force
		Supplements to the M-series Recommendations		-
M Suppl. 7	2008-05-23	ITU-T M.1400-series – Supplement on directory of external terminology schemas		In-force
M.3050 Suppl. 4	2007-02-14	Enhanced Telecom Operations Map (eTOM) – An eTOM primer		In-force
M.3050 Suppl. 1	2007-02-14	Enhanced Telecom Operations Map (eTOM) – Interim view of an interpreter's guide for eTOM and ITIL practitioners		In-force
M.3050 Suppl. 2	2007-02-14	Enhanced Telecom Operations Map (eTOM) – Public B2B Business Operations Map (BOM)		In-force
M.3050 Suppl. 3	2004-05-07	Enhanced Telecom Operations Map (eTOM) – eTOM to M.3400 mapping		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series N : Maintenance: international sound programme and television transmission circuits				
		International sound-programme transmission		In-force
N.1	1993-03-12	Definitions for application to international sound-programme and television-sound transmission		In-force
N.2	1988-11-25	Different types of sound-programme circuit		In-force
N.3	1988-11-25	Control circuits		In-force
N.4	1988-11-25	Definition and duration of the line-up period and the preparatory period		In-force
N.5	1988-11-25	Sound-programme control, sub-control and send reference stations		In-force
N.10	1993-03-12	Limits for the lining-up of international sound-programme links and connections		In-force
N.11	1988-11-25	Essential transmission performance objectives for international sound-programme centres (ISPC)		In-force
N.12	1988-11-25	Measurements to be made during the line-up period that precedes a sound-programme transmission		In-force
N.13	1988-11-25	Measurements to be made by the broadcasting organizations during the preparatory period		In-force
N.15	1988-11-25	Maximum permissible power during an international sound-programme transmission		In-force
N.16	1988-11-25	Identification signal		In-force
N.17	1988-11-25	Monitoring the transmission		In-force
N.18	1988-11-25	Monitoring for charging purposes, releasing		In-force
N.21	1988-11-25	Limits and procedures for the lining-up of a sound-programme circuit		In-force
N.23	1988-11-25	Maintenance measurements to be made on international sound-programme circuits		In-force
		International television transmission		-
N.51	1988-11-25	Definitions for application to international television transmissions		In-force
N.52	1988-11-25	Multiple destination television transmissions and coordination centres		In-force
N.54	1988-11-25	Definition and duration of the line-up period and the preparatory period		In-force
N.55	1993-03-12	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		In-force
N.60	1993-03-12	Nominal amplitude of video signals at video interconnection points		In-force
N.61	1988-11-25	Measurements to be made before the line-up period that precedes a television transmission		In-force
N.62	1993-03-12	Tests to be made during the line-up period that precedes a television transmission		In-force

Number	Approval date	Recommendation Title	Observation	Status
N.63	1988-11-25	Test signals to be used by the broadcasting organizations during the preparatory period		In-force
N.64	1988-11-25	Quality and impairment assessment		In-force
N.67	1993-03-12	Monitoring television transmissions – Use of the field blanking interval		In-force
N.73	1988-11-25	Maintenance of permanent international television circuits, links and connections		In-force
		International videoconference transmission		-

Number	Approval date	Recommendation Title	Observation	Status
Series O : Specifications of measuring equipment				
		General		In-force
O.1	2000-02-04	Scope and application of measurement equipment specifications covered in the O-series Recommendations		In-force
O.3	1992-10-05	Climatic conditions and relevant tests for measuring equipment		In-force
O.6	1988-11-25	1020 Hz reference test frequency		In-force
O.9	1999-03-26	Measuring arrangements to assess the degree of unbalance about earth		In-force
		Maintenance access		-
O.11	1992-10-05	Maintenance access lines		In-force
		Automatic and semi-automatic measuring systems		-
O.22/Q.49	1992-10-05	CCITT automatic transmission measuring and signalling testing equipment ATME No. 2	Q.49 was an alias name of ITU-T O.22. Only this alias name was suppressed. ITU-T O.22 remains valid	In-force
O.27	1988-11-25	In-station echo canceller test equipment		In-force
O.33	1995-07-27	Automatic equipment for rapidly measuring stereophonic pairs and monophonic sound-programme circuits, links and connections		In-force
		Equipment for the measurement of analogue parameters		In-force
O.41	1994-10-15	Psophometer for use on telephone-type circuits	This Recommendation is also included but not published in P series under alias number P.53	In-force
O.42	1988-11-25	Equipment to measure non-linear distortion using the 4-tone intermodulation method		In-force
O.61	1988-11-25	Simple equipment to measure interruptions on telephone-type circuits		In-force
O.62	1988-11-25	Sophisticated equipment to measure interruptions on telephone-type circuits		In-force
O.71/V.55	1988-11-25	Impulsive noise measuring equipment for telephone-type circuits	This Recommendation is also included but not published in V series under alias number V.55	In-force
O.81 App.I (1998) Erratum 1	2000-05-25			In-force
O.81 App.I	1998-06-26	A measuring signal (multitone test signal) for fast measurement of amplitude and phase for telephone type circuits	Formerly published as Supplement 3.7 in the Blue Book (1988), Fascicle IV.4, and then renumbered on 26 June 1998 as Appendix I to ITU-T O.81 without further modification	In-force
O.81	1988-11-25	Group-delay measuring equipment for telephone-type circuits		In-force

Number	Approval date	Recommendation Title	Observation	Status
O.82	1988-11-25	Group-delay measuring equipment for the range 5 to 600 kHz		In-force
O.91	1988-11-25	Phase jitter measuring equipment for telephone-type circuits		In-force
O.95	1988-11-25	Phase and amplitude hit counters for telephone-type circuits		In-force
O.111	1988-11-25	Frequency shift measuring equipment for use on carrier channels		In-force
		Equipment for the measurement of digital and analogue/digital parameters		In-force
O.131	1988-11-25	Quantizing distortion measuring equipment using a pseudo-random noise test signal		In-force
O.132	1988-11-25	Quantizing distortion measuring equipment using a sinusoidal test signal		In-force
O.133	1993-03-12	Equipment for measuring the performance of PCM encoders and decoders		In-force
O.150	1996-05-12	General requirements for instrumentation for performance measurements on digital transmission equipment		In-force
O.150 (1996) Cor. 1	2002-05-29			In-force
O.151	1992-10-05	Error performance measuring equipment operating at the primary rate and above		In-force
O.151 (1992) Cor. 1	2002-05-29			In-force
O.152	1992-10-05	Error performance measuring equipment for bit rates of 64 kbit/s and N x 64 kbit/s		In-force
O.153	1992-10-05	Basic parameters for the measurement of error performance at bit rates below the primary rate		In-force
O.161	1988-11-25	In-service code violation monitors for digital systems		In-force
O.162	1992-10-05	Equipment to perform in-service monitoring on 2048, 8448, 34 368 and 139 264 kbit/s signals		In-force
O.163	1988-11-25	Equipment to perform in-service monitoring on 1544 kbit/s signals		In-force
O.171	1997-04-19	Timing jitter and wander measuring equipment for digital systems which are based on the plesiochronous digital hierarchy (PDH)		In-force
O.172	2005-04-13	Jitter and wander measuring equipment for digital systems which are based on the synchronous digital hierarchy (SDH)		In-force
O.172 (2005) Erratum 1	2005-10-03		Applies to English version only	In-force
O.172 (2005) Amd. 1	2008-06-29			In-force

Number	Approval date	Recommendation Title	Observation	Status
O.172 (2005) Amd. 2	2010-07-29	Alternative clock and jitter generation and a new verification method for STM-256 reference transmitter intrinsic jitter		In-force
O.173	2012-02-13	Jitter measuring equipment for digital systems which are based on the optical transport network		In-force
O.174	2009-11-13	Jitter and wander measuring equipment for digital systems which are based on synchronous Ethernet technology		In-force
O.174 (2009) Cor. 1	2010-07-29			In-force
O.174 (2009) Amd. 1	2011-04-13			In-force
O.174 (2009) Cor. 2	2012-02-13			In-force
O.175	2012-10-29	Jitter measuring equipment for digital systems based on XG-PON		Pre-published
O.181	2002-05-29	Equipment to assess error performance on STM-N interfaces		In-force
O.182	2007-07-22	Equipment to assess error performance on Optical Transport Network interfaces		In-force
O.182 (2007) Amd. 1	2009-01-13	An additional evaluation procedure		In-force
O.191	2000-02-04	Equipment to measure the cell transfer performance of ATM connections		In-force
		Equipment for the measurement of optical channel parameters		-
O.201	2003-07-22	Q-factor test equipment to estimate the transmission performance of optical channels		In-force
		Equipment to perform measurements on IP networks		-
O.211	2006-01-13	Test and measurement equipment to perform tests at the IP layer		In-force
		Equipment to perform measurements on leased-circuit services		In-force
O.220	2007-03-16	Framework for end-to-end QoS measurement and supervision for leased-circuit services		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series P : Terminals and subjective and objective assessment methods				
		Vocabulary and effects of transmission parameters on customer opinion of transmission quality		In-force
P.10/G.100	2006-07-14	Vocabulary for performance and quality of service	Replaces former G.100 (2001) and P.10 (1998)	In-force
P.10/G.100 (2006) Amd. 2	2008-07-14	New definitions for inclusion in Recommendation ITU-T P.10/G.100	This Amendment supersedes Amendment 1	In-force
P.10/G.100 (2006) Amd. 3	2011-12-14	New definitions for inclusion in Recommendation ITU-T P.10/G.100		In-force
P.11	1993-03-12	Effect of transmission impairments		In-force
P.16	1988-11-25	Subjective effects of direct crosstalk; thresholds of audibility and intelligibility		In-force
		Voice terminal characteristics		In-force
P.32	1988-11-25	Evaluation of the efficiency of telephone booths and acoustic hoods		In-force
		Reference systems		-
P.48	1988-11-25	Specification for an intermediate reference system		In-force
		Objective measuring apparatus		In-force
P.50 App. I	1998-02-27	Test signals	This Appendix includes an electronic attachment containing the speech database for telephonometry applications. Due to volume constraints, this database is only available on CD-ROM. The text of the appendix remains freely available on the ITU website for	In-force
P.50	1999-09-30	Artificial voices		In-force
P.50 (1999) Erratum 1	2000-05-25			In-force
P.51	1996-08-30	Artificial mouth		In-force
P.52	1993-03-12	Volume meters		In-force
O.41	1994-10-15	Psophometer for use on telephone-type circuits	This Recommendation is also included but not published in P series under alias number P.53	In-force
P.54	1988-11-25	Sound level meters (apparatus for the objective measurement of room noise)		In-force
P.55	1988-11-25	Apparatus for the measurement of impulsive noise		In-force
P.56	2011-12-14	Objective measurement of active speech level	This edition includes the material that was approved in March 2011 and in December 2011.	In-force
P.57	2011-12-14	Artificial ears		In-force

Number	Approval date	Recommendation Title	Observation	Status
P.58	2011-12-14	Head and torso simulator for telephonometry		In-force
P.59	1993-03-12	Artificial conversational speech		In-force
		Objective electro-acoustical measurements		In-force
P.61	1988-11-25	Methods for the calibration of condenser microphones		In-force
P.64	2007-11-13	Determination of sensitivity/frequency characteristics of local telephone systems		In-force
		Measurements related to speech loudness		-
P.75	1988-11-25	Standard conditioning method for handsets with carbon microphones		In-force
P.76	1988-11-25	Determination of loudness ratings; fundamental principles		In-force
P.78	1996-02-06	Subjective testing method for determination of loudness ratings in accordance with Recommendation P.76		In-force
P.79 Annex G	2001-11-29	Wideband loudness rating algorithm		In-force
P.79	2007-11-13	Calculation of loudness ratings for telephone sets		In-force
		Methods for objective and subjective assessment of speech quality		In-force
P.85	1994-06-21	A method for subjective performance assessment of the quality of speech voice output devices		In-force
		Voice terminal characteristics		-
P.300	2001-11-29	Transmission performance of group audio terminals (GATs)	Formerly ITU-T P.30	In-force
P.310	2009-06-22	Transmission characteristics for narrow-band digital handset and headset telephones		In-force
P.311	2011-03-01	Transmission characteristics for wideband digital handset and headset telephones		In-force
P.313	2007-03-16	Transmission characteristics for cordless and mobile digital terminals		In-force
P.330	2003-03-16	Speech processing devices for acoustic enhancement		In-force
P.330 (2003) Amd. 1	2003-09-30			In-force
P.340	2000-05-18	Transmission characteristics and speech quality parameters of hands-free terminals		In-force
P.340 (2000) Cor. 1	2004-03-31			In-force
P.341	2011-03-01	Transmission characteristics for wideband digital loudspeaking and hands-free telephony terminals		In-force
P.342	2009-06-22	Transmission characteristics for narrow-band digital loudspeaking and hands-free telephony terminals		In-force
P.350	2001-03-29	Handset dimensions	Formerly ITU-T P.35	In-force

Number	Approval date	Recommendation Title	Observation	Status
P.360	2006-07-14	Efficiency of devices for preventing the occurrence of excessive acoustic pressure by telephone receivers and assessment of daily noise exposure of telephone users		In-force
P.370	1996-08-30	Coupling hearing aids to telephone sets	Formerly Rec. P.37, renumbered P.370	In-force
P.380	2003-11-13	Electro-acoustic measurements on headsets		In-force
P.381	2012-08-22	Technical requirements and test methods for the universal wired headset or headphone interface of digital mobile terminals		Pre-published
		Objective measuring apparatus		-
P.501	2012-01-13	Test signals for use in telephonometry		Pre-published
P.501 (2012) Amd. 1	2012-07-14	Test signals for use in telephonometry		Pre-published
P.502 (2000) Erratum 1	2001-07-27			In-force
P.502	2000-05-18	Objective test methods for speech communication systems using complex test signals		In-force
P.502 (2000) Amd. 1	2010-05-27	New Appendix III – Automated double talk analysis procedure		In-force
P.505	2005-11-29	One-view visualization of speech quality measurement results		In-force
P.505 (2005) Amd. 1	2012-06-07	New Appendix II - Online tool for quality pie charts		In-force
P.561 App. III	1998-02-27	Digital speech recordings	This Appendix includes a CD-ROM containing digital speech recordings for INMD devices testing. Due to the quantity of data, this publication is only available as paper plus CD-ROM	In-force
P.561	2002-07-14	In-service non-intrusive measurement device – Voice service measurements		In-force
P.562	2004-05-14	Analysis and interpretation of INMD voice-service measurements		In-force
P.563	2004-05-14	Single-ended method for objective speech quality assessment in narrow-band telephony applications	This Recommendation includes an electronic attachment containing an ANSI-C reference implementation and conformance testing data	In-force
P.563 (2004) Erratum 1	2007-10-11			In-force

Number	Approval date	Recommendation Title	Observation	Status
P.564	2007-11-13	Conformance testing for voice over IP transmission quality assessment models	This Recommendation includes an electronic attachment containing the test vectors for conformance testing of voice over IP transmission quality assessment models	In-force
P.581	2009-12-14	Use of head and torso simulator (HATS) for hands-free and handset terminal testing		In-force
		Methods for objective and subjective assessment of speech quality		-
P.800	1996-08-30	Methods for subjective determination of transmission quality	Former Rec. P.80	In-force
P.800.1	2006-07-14	Mean Opinion Score (MOS) terminology		In-force
P.805	2007-04-22	Subjective evaluation of conversational quality		In-force
P.810	1996-02-06	Modulated noise reference unit (MNRU)	Corresponding ANSI-C code is available in the MNRU module of the ITU-T G.191 Software Tools Library	In-force
P.830	1996-02-06	Subjective performance assessment of telephone-band and wideband digital codecs		In-force
P.831	1998-12-03	Subjective performance evaluation of network echo cancellers		In-force
P.832	2000-05-18	Subjective performance evaluation of hands-free terminals		In-force
P.833	2001-02-23	Methodology for derivation of equipment impairment factors from subjective listening-only tests		In-force
P.833.1	2009-04-29	Methodology for the derivation of equipment impairment factors from subjective listening-only tests for wideband speech codecs		In-force
P.834	2002-07-14	Methodology for the derivation of equipment impairment factors from instrumental models	This Recommendation includes an electronic attachment containing test speech material	In-force
P.834 (2002) Cor. 1	2005-01-27		Published as a covering note	In-force
P.834.1	2009-04-29	Extension of the methodology for the derivation of equipment impairment factors from instrumental models for wideband speech codecs		In-force
P.835 (2003) Erratum 1	2008-05-30		Applies to French version only	-
P.835	2003-11-13	Subjective test methodology for evaluating speech communication systems that include noise suppression algorithm		In-force
P.835 (2003) Amd. 1	2007-10-11	New Appendix III – Additional provisions for nonstationary noise suppressors		In-force

Number	Approval date	Recommendation Title	Observation	Status
P.835 (2003) Cor. 1	2011-01-27			In-force
P.840	2003-11-13	Subjective listening test method for evaluating circuit multiplication equipment	Former ITU-T P.84	In-force
P.851	2003-11-13	Subjective quality evaluation of telephone services based on spoken dialogue systems		In-force
P.862	2001-02-23	Perceptual evaluation of speech quality (PESQ): An objective method for end-to-end speech quality assessment of narrow-band telephone networks and speech codecs	This Recommendation included an electronic attachment containing the reference implementation of PESQ and corresponding conformance data. This electronic attachment was superseded on 29.11.2005 by the electronic attachment of P.862 (2001) Amd.2	In-force
P.862 (2001) Amd. 2	2005-11-29	Revised Annex A – Reference implementations and conformance testing for ITU-T Recs P.862, P.862.1 and P.862.2	This amendment includes an electronic attachment containing reference implementation and conformance data that supersedes previous software attached to P.862 (2001) and amendment 1 (2003)	In-force
P.862 (2001) Cor. 1	2007-10-11			In-force
P.862.1	2003-11-13	Mapping function for transforming P.862 raw result scores to MOS-LQO		In-force
P.862.2	2007-11-13	Wideband extension to Recommendation P.862 for the assessment of wideband telephone networks and speech codecs		In-force
P.862.3	2007-11-13	Application guide for objective quality measurement based on Recommendations P.862, P.862.1 and P.862.2		In-force
P.862.3 (2007) Cor. 1	2011-11-09			In-force
P.863	2011-01-13	Perceptual objective listening quality assessment		In-force
P.863 (2011) Amd. 1	2011-11-09	New Appendix III - Prediction of acoustically recorded narrowband speech		In-force
P.880	2004-05-14	Continuous evaluation of time-varying speech quality		In-force
		Audiovisual quality in multimedia services		In-force
P.910	2008-04-06	Subjective video quality assessment methods for multimedia applications		In-force
P.911	1998-12-03	Subjective audiovisual quality assessment methods for multimedia applications		In-force

Number	Approval date	Recommendation Title	Observation	Status
P.911 (1998) Cor. 1	1999-09-30			In-force
P.912	2008-08-13	Subjective video quality assessment methods for recognition tasks		In-force
P.920	2000-05-18	Interactive test methods for audiovisual communications		In-force
P.930	1996-08-30	Principles of a reference impairment system for video		In-force
P.931	1998-12-03	Multimedia communications delay, synchronization and frame rate measurement		In-force
		Transmission performance and QoS aspects of IP end-points		-
P.1010	2004-07-07	Fundamental voice transmission objectives for VoIP terminals and gateways		In-force
		Communications involving vehicles		-
P.1100	2011-03-01	Narrow-band hands-free communication in motor vehicles		In-force
P.1110	2009-12-14	Wideband hands-free communication in motor vehicles		In-force
		Models and tools for quality assessment of streamed media		-
P.1201	2012-10-14	Parametric non-intrusive assessment of audiovisual media streaming quality		Pre-published
P.1201.1	2012-10-14	Parametric non-intrusive assessment of audiovisual media streaming quality - lower resolution application area		Pre-published
P.1201.2	2012-10-14	Parametric non-intrusive assessment of audiovisual media streaming quality - higher resolution application area		Pre-published
P.1202	2012-10-14	Parametric non-intrusive bitstream assessment of video media streaming quality		Pre-published
P.1202.1	2012-10-14	Parametric non-intrusive bitstream assessment of video media streaming quality - lower resolution application area		-
		Telemeeting assessment		-
P.1301	2012-07-14	Subjective quality evaluation of audio and audiovisual multiparty telemeetings		Pre-published
		Statistical analysis, evaluation and reporting guidelines of quality measurements		-
P.1401	2012-07-14	Methods, metrics and procedures for statistical evaluation, qualification and comparison of objective quality prediction models		Pre-published
		Supplements to the Series P Recommendations		-
P Suppl. 10	1988-11-25	Considerations relating to transmission characteristics for analogue handset telephones		In-force
P Suppl. 16	1988-11-25	Guidelines for placement of microphones and loudspeakers in telephone conference rooms and for group audio terminals (GATs)	Former G Suppl. 25 (1984)	In-force

Number	Approval date	Recommendation Title	Observation	Status
P Suppl. 20	1993-03-12	Examples of measurements of handset receive-frequency responses: dependence on earcap leakage losses		In-force
P Suppl. 23	1998-02-27	ITU-T coded-speech database	This Supplement includes 3 CD-ROMs containing the ITU-T coded speech database for 8 kbit/s codec tests. Due to the data volume, this Supplement is not downloadable from the ITU website and should be provided from the ITU Sales service. Only the Supplement	In-force
P Suppl. 24	2005-10-21	Parameters describing the interaction with spoken dialogue systems		In-force
P Suppl. 25	2011-01-27	Parameters describing the interaction with multimodal dialogue systems		In-force
P Suppl. 26	2012-06-07	Scenarios for the subjective quality evaluation of audio and audiovisual multiparty telemeetings		Pre-published

Number	Approval date	Recommendation Title	Observation	Status
Series Q : Switching and signalling				
		Signalling in the international manual service		-
Q.1	1988-11-25	Signal receivers for manual working		In-force
Q.2	1988-11-25	Signal receivers for automatic and semi-automatic working, used for manual working		In-force
		International automatic and semi-automatic working		In-force
		Basic Recommendations		-
Q.4	1988-11-25	Automatic switching functions for use in national networks		In-force
Q.7	1988-11-25	Signalling systems to be used for international automatic and semi-automatic telephone working		In-force
Q.8	1988-11-25	Signalling systems to be used for international manual and automatic working on analogue leased circuits		In-force
Q.9	1988-11-25	Vocabulary of switching and signalling terms		In-force
		Routing plan for international service		In-force
Q.14	1988-11-25	Means to control the number of satellite links in an international telephone connection		In-force
		General Recommendations relative to signalling and switching systems (national or international)		-
Q.20	1988-11-25	Comparative advantages of "in-band" and "out-band" systems		In-force
Q.21	1988-11-25	Systems recommended for out-band signalling		In-force
Q.22	1988-11-25	Frequencies to be used for in-band signalling		In-force
Q.23	1988-11-25	Technical features of push-button telephone sets		In-force
Q.24	1988-11-25	Multifrequency push-button signal reception		In-force
Q.25	1988-11-25	Splitting arrangements and signal recognition times in "in-band" signalling systems		In-force
Q.26	1988-11-25	Direct access to the international network from the national network		In-force
Q.27	1988-11-25	Transmission of the answer signal		In-force
Q.28	1988-11-25	Determination of the moment of the called subscriber's answer in the automatic service		In-force
Q.29	1988-11-25	Causes of noise and ways of reducing noise in telephone exchanges		In-force
Q.30	1988-11-25	Improving the reliability of contacts in speech circuits		In-force
Q.31	1988-11-25	Noise in a national 4-wire automatic exchange		In-force
Q.32	1988-11-25	Reduction of the risk of instability by switching means		In-force
Q.33	1988-11-25	Protection against the effects of faulty transmission on groups of circuits		In-force
		Tones for use in national signalling systems		-

Number	Approval date	Recommendation Title	Observation	Status
E.180/Q.35	1998-03-09	Technical characteristics of tones for the telephone service	This Recommendation is published with the double number E.180 and Q.35	In-force
		General characteristics for international telephone connections and circuits		-
Q.44	1988-11-25	Attenuation distortion		In-force
Q.45	1984-10-19	Transmission characteristics of an analogue international exchange		In-force
Q.45 bis	1988-11-25	Transmission characteristics of an analogue international exchange	Q.45 bis is consistent with Q.551-Q.554 (1988). There are no changes in Q.45 bis of Q.45 technical substance. Q.45 (1984) is adequate for references previous to 1988	In-force
		Signalling for satellite systems		In-force
Q.48	1988-11-25	Demand assignment signalling systems		In-force
O.22/Q.49	1992-10-05	CCITT automatic transmission measuring and signalling testing equipment ATME No. 2	Q.49 was an alias name of ITU-T O.22. Only this alias name was suppressed. ITU-T O.22 remains valid	In-force
		Signalling for circuit multiplication equipment		-
Q.50	2001-07-13	Signalling between Circuit Multiplication Equipment (CME) and International Switching Centres (ISC)		In-force
Q.50 (2001) Erratum 1	2006-08-24			In-force
Q.50.1	2001-07-13	Signalling between International Switching Centres (ISC) and Digital Circuit Multiplication Equipment (DCME) including the control of compression/decompression		In-force
Q.50.2	2002-12-29	Signalling between International Switching Centres (ISC) and Digital Circuit Multiplication Equipment (DCME) including the control of compression/decompression over an IP network		In-force
Q.52	2001-03-01	Signaling between international switching centers and stand-alone echo control devices		In-force
Q.55	1999-12-03	Signalling between signal processing network equipments (SPNE) and international switching centres (ISC)		In-force
Q.56	2001-05-25	Signalling between signal processing network equipment (SPNE) and international switching centres (ISC) over an IP network		In-force
		Functions and information flows for services in the ISDN		In-force
		Methodology		In-force
Q.65	2000-06-15	The unified functional methodology for the characterization of services and network capabilities including alternative object oriented techniques		In-force
		Basic services		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.68	1993-03-12	Overview of methodology for developing management services		In-force
Q.71	1993-03-12	ISDN circuit mode switched bearer services		In-force
Q.72	1993-03-12	Stage 2 description for packet mode services		In-force
Q.76	1995-02-07	Service procedures for Universal Personal Telecommunication – Functional modelling and information flows		In-force
		Supplementary services		In-force
Q.80	1988-11-25	Introduction to stage 2 service descriptions for supplementary services		In-force
Q.81		Stage 2 description for number identification supplementary services		-
Q.81.1	1988-11-25	Direct dialling-in		In-force
Q.81.2	1992-02-04	Multiple subscriber number	Published with ITU-T Q.81.8	In-force
Q.81.3	1991-09-10	Calling line identification presentation (CLIP) and calling line identification restriction (CLIR)	Published with ITU-T Q.81.5	In-force
Q.81.5	1991-09-10	Connected line identification, presentation and restriction (COLP) and (COLR)	Published with ITU-T Q.81.3	In-force
Q.81.7	1997-06-05	Malicious call identification (MCID)		In-force
Q.81.8	1992-02-04	Sub-addressing (SUB)	Published with ITU-T Q.81.2	In-force
Q.82		Stage 2 description for call offering supplementary services		-
Q.82.1	1988-11-25	Call transfer	Empty Recommendation. This service has only been identified and requires further study	-
Q.82.2	1993-03-12	Call forwarding	Published with ITU-T Q.82.3	In-force
Q.82.3	1993-03-12	Call deflection	Published with ITU-T Q.82.2	In-force
Q.82.4	1988-11-25	Line hunting		In-force
Q.82.7	1996-07-09	Explicit call transfer		In-force
Q.83		Stage 2 description for call completion supplementary services		-
Q.83.1	1991-09-10	Call waiting (CW)	Published with ITU-T Q.83.4	In-force
Q.83.2	1992-02-04	Call hold		In-force
Q.83.3	1988-11-25	Completion of call to busy subscriber	Empty Recommendation. This service has only been identified and requires further study	In-force
Q.83.4	1991-09-10	Terminal portability	Published with ITU-T Q.83.1	In-force
Q.84		Stage 2 description for multiparty supplementary services		-
Q.84.1	1993-03-12	Conference calling (CONF)		In-force
Q.84.2	1995-10-17	Three-party service		In-force
Q.85		Stage 2 description for community of interest supplementary services		-
Q.85.1	1992-02-04	Closed user group	Published with ITU-T Q.85.3	In-force
Q.85.3	1992-02-04	Multi-level precedence and preemption (MLPP)	Published with ITU-T Q.85.1	In-force
Q.85.6	1995-02-07	Global Virtual Network Service (GVNS)		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.85.6 Annex A	1996-07-09	Service procedures and information flows based on intelligent network CS-1 capabilities		In-force
Q.86		Stage 2 description for charging supplementary services		-
Q.86.1	1988-11-25	Credit card call	Empty Recommendation. This service has only been identified and requires further study	-
Q.86.2	1995-10-17	Advice of charge (AOC)		In-force
Q.86.3	1993-03-12	Reverse charging (REV)		In-force
Q.86.4	1997-06-05	International Freephone Service (IFS)		In-force
Q.86.7	1995-10-17	International Telecommunication Charge Card (ITCC)		In-force
Q.87		Stage 2 description for additional information transfer supplementary services		-
Q.87.1	1993-03-12	User-to-user signalling (UUS)		In-force
Q.87.2	1988-11-25	User signalling bearer services	Empty Recommendation. This service has only been identified and requires further study	-
		Clauses applicable to ITU-T standard systems		-
		General clauses		In-force
Q.101	1988-11-25	Facilities provided in international semi-automatic working		In-force
Q.102	1988-11-25	Facilities provided in international automatic working		In-force
Q.103	1988-11-25	Numbering used		In-force
Q.104	1988-11-25	Language digit or discriminating digit		In-force
Q.105	1988-11-25	National (significant) number		In-force
Q.106	1988-11-25	The sending-finished signal		In-force
Q.107	1988-11-25	Standard sending sequence of forward address information		In-force
Q.107 bis	1993-03-12	Analysis of forward address information for routing		In-force
Q.108	1988-11-25	One-way or both-way operation of international circuits		In-force
Q.109	1988-11-25	Transmission of the answer signal in international exchanges		In-force
		Transmission clauses for signalling		In-force
Q.110	1988-11-25	General aspects of the utilization of standardized CCITT signalling systems on PCM links		In-force
Q.112	1988-11-25	Signal levels and signal receiver sensitivity		In-force
Q.113	1988-11-25	Connection of signal receivers in the circuit		In-force
Q.114	1988-11-25	Typical transmission requirements for signal senders and receivers		In-force
		Logic and protocols for the control of signal processing network elements and functions		-
Q.115.0	2002-12-29	Protocols for the control of signal processing network elements and functions		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.115.0 (2002) Erratum 1	2003-09-03			In-force
Q.115.0 (2002) Cor. 1	2007-06-13			In-force
Q.115.1	2002-12-29	Logic for the control of echo control devices and functions	Formerly Rec. Q.115	In-force
Q.115.2	2007-01-13	Logic for the control of voice enhancement devices and functions		In-force
		Abnormal conditions		-
Q.116	1988-11-25	Indication given to the outgoing operator or calling subscriber in case of an abnormal condition		In-force
Q.117	1988-11-25	Alarms for technical staff and arrangements in case of faults		In-force
Q.118	1997-09-12	Abnormal conditions – Special release arrangements		In-force
Q.118 bis	1988-11-25	Indication of congestion conditions at transit exchanges		In-force
		Specifications of Signalling Systems No. 4, 5, 6, R1 and R2		In-force
Q.120-Q.139	1988-11-25	Specifications of signalling system No. 4	Initially published in Blue Book Fascicle VI.2 (1988). Available now in electronic format only	In-force
Q.140-Q.180	1988-11-25	Specifications of Signalling System No. 5	Initially published in Blue Book Fascicle VI.2 (1988). Available now in electronic format only. This set includes the amendments introduced on 12 March 1993 on Q.141 and Q.144	In-force
Q.251-Q.300	1988-11-25	Specifications of Signalling System No. 6	Initially published in Blue Book Fascicle VI.3 (1988). Available now in electronic format only	In-force
Q.310-Q.332	1988-11-25	Specifications of Signalling System R1	Initially published in Blue Book Fascicle VI.4 (1988). Available now in electronic format only	In-force
Q.400-Q.490	1988-11-25	Specifications of Signalling System R2	Initially published in Blue Book Fascicle VI.4 (1988). Available now in electronic format only	In-force
		Digital exchanges		In-force
		Introduction and field of application		-
Q.500	1988-11-25	Digital local, combined, transit and international exchanges – Introduction and field of application	Replaces Q.501 (1984) and Q.511 (1984)	In-force
		Exchange interfaces, functions and connections		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.511	1988-11-25	Exchange interfaces towards other exchanges	Replaces Q.502 (1984) and Q.512 (1984)	In-force
Q.512	1995-02-07	Digital exchange interfaces for subscriber access		In-force
Q.513	1993-03-12	Digital exchange interfaces for operations, administration and maintenance		In-force
Q.521	1993-03-12	Digital exchange functions		In-force
Q.522	1988-11-25	Digital exchange connections, signalling and ancillary functions	Replaces Q.503 (1984) and Q.513 (1984)	In-force
		Design objectives and measurement		In-force
Q.541	1993-03-12	Digital exchange design objectives – General		In-force
Q.542	1993-03-12	Digital exchange design objectives – Operations and maintenance		In-force
Q.543	1993-03-12	Digital exchange performance design objectives		In-force
Q.544	1988-11-25	Digital exchange measurements	Replaces Q.505 (1984) and Q.515 (1984)	In-force
		Transmission characteristics		-
Q.551	2002-01-06	Transmission characteristics of digital exchanges		In-force
Q.552	2001-11-29	Transmission characteristics at 2-wire analogue interfaces of digital exchanges		In-force
Q.553	2001-11-29	Transmission characteristics at 4-wire analogue interfaces of digital exchanges		In-force
Q.554	1996-11-11	Transmission characteristics at digital interfaces of digital exchanges		In-force
		Interworking of Signalling Systems		-
		General considerations		-
Q.601	1993-03-12	Interworking of signalling systems – General		In-force
Q.602	1993-03-12	Interworking of signalling systems – Introduction		In-force
Q.603	1988-11-25	Events		In-force
Q.604	1993-03-12	Interworking of signalling systems – Information analysis tables		In-force
Q.605	1988-11-25	Drawing conventions		In-force
Q.606	1988-11-25	Logic procedures		In-force
Q.607	1988-11-25	Interworking requirements for new signalling systems		In-force
Q.608	1988-11-25	Miscellaneous interworking aspects		In-force
		Logic procedures		-
Q.611	1988-11-25	Logic procedures for incoming signalling system No. 4		In-force
Q.612	1988-11-25	Logic procedures for incoming signalling system No. 5		In-force
Q.613	1988-11-25	Logic procedures for incoming signalling system No. 6		In-force
Q.614	1993-03-12	Logic procedures for incoming Signalling System No. 7 (TUP)		In-force
Q.615	1988-11-25	Logic procedures for incoming signalling system R1		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.616	1988-11-25	Logic procedures for incoming signalling system R2		In-force
Q.617	1993-03-12	Logic procedures for incoming signalling system No. 7 (ISUP)		In-force
Q.621	1988-11-25	Logic procedures for outgoing signalling system No. 4		In-force
Q.622	1988-11-25	Logic procedures for outgoing signalling system No. 5		In-force
Q.623	1988-11-25	Logic procedures for outgoing signalling system No. 6		In-force
Q.624	1993-03-12	Logic procedures for outgoing Signalling System No. 7 (TUP)		In-force
Q.625	1988-11-25	Logic procedures for outgoing signalling system R1		In-force
Q.626	1988-11-25	Logic procedures for outgoing signalling system R2		In-force
Q.627	1993-03-12	Logic procedures for outgoing Signalling System No. 7 (ISUP)		In-force
Q.634	1988-11-25	Logic procedures for interworking of signalling system No. 4 to R2		In-force
Q.642	1988-11-25	Logic procedures for interworking of signalling system No. 5 to No. 6		In-force
Q.643	1988-11-25	Logic procedures for interworking of signalling system No. 5 to No. 7 (TUP)		In-force
Q.644	1988-11-25	Logic procedures for interworking of signalling system No. 5 to R1		In-force
Q.645	1988-11-25	Logic procedures for interworking of signalling system No. 5 to R2		In-force
Q.646	1993-03-12	Logic procedures for interworking of Signalling System No. 5 to Signalling System No. 7 (ISUP)		In-force
Q.652	1988-11-25	Logic procedures for interworking of signalling system No. 6 to No. 5		In-force
Q.653	1988-11-25	Logic procedures for interworking of signalling system No. 6 to No. 7 (TUP)		In-force
Q.654	1988-11-25	Logic procedures for interworking of signalling system No. 6 to R1		In-force
Q.655	1988-11-25	Logic procedures for interworking of signalling system No. 6 to R2		In-force
Q.656	1993-03-12	Logic procedures for interworking of Signalling System No. 6 to Signalling System No. 7 (ISUP)		In-force
Q.662	1988-11-25	Logic procedures for interworking of signalling system No. 7 (TUP) to No. 5		In-force
Q.663	1988-11-25	Logic procedures for interworking of signalling system No. 7 (TUP) to No. 6		In-force
Q.664	1988-11-25	Logic procedures for interworking of signalling system No. 7 (TUP) to No. 7 (TUP)		In-force
Q.665	1988-11-25	Logic procedures for interworking of signalling system No. 7 (TUP) to R1		In-force
Q.666	1988-11-25	Logic procedures for interworking of signalling system No. 7 (TUP) to R2		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.667	1993-03-12	Logic procedures for interworking of Signalling System No. 7 (TUP) to Signalling System No. 7 (ISUP)		In-force
Q.671	1988-11-25	Logic procedures for interworking of signalling system R1 to No. 5		In-force
Q.672	1988-11-25	Logic procedures for interworking of signalling system R1 to No. 6		In-force
Q.673	1988-11-25	Logic procedures for interworking of signalling system R1 to No. 7 (TUP)		In-force
Q.674	1988-11-25	Logic procedures for interworking of signalling system R1 to R2		In-force
Q.675	1993-03-12	Logic procedures for interworking of Signalling System R1 to Signalling System No. 7 (ISUP)		In-force
Q.681	1988-11-25	Logic procedures for interworking of signalling system R2 to No. 4		In-force
Q.682	1988-11-25	Logic procedures for interworking of signalling system R2 to No. 5		In-force
Q.683	1988-11-25	Logic procedures for interworking of signalling system R2 to No. 6		In-force
Q.684	1988-11-25	Logic procedures for interworking of signalling system R2 to No. 7 (TUP)		In-force
Q.685	1988-11-25	Logic procedures for interworking of signalling system R2 to R1		In-force
Q.686	1993-03-12	Logic procedures for interworking of Signalling System R2 to Signalling System No. 7 (ISUP)		In-force
Q.690	1993-03-12	Logic procedures for interworking of Signalling System No. 7 (ISUP) to No. 5		In-force
Q.691	1993-03-12	Logic procedures for interworking of Signalling System No. 7 (ISUP) to No. 6		In-force
Q.692	1993-03-12	Logic procedures for interworking of Signalling System No. 7 (ISUP) to No. 7 (TUP)		In-force
Q.694	1993-03-12	Logic procedures for interworking of signalling system No. 7 (ISUP) to R1		In-force
Q.695	1993-03-12	Logic procedures for interworking of Signalling System No. 7 (ISUP) to R2		In-force
Q.696	1997-06-05	Interworking between the Signalling System No. 7 ISDN User Part (ISUP) and Signalling Systems No. 5, R2 and Signalling System No. 7 TUP		In-force
		Interworking of Signalling Systems No. 7 and No. 6		In-force
Q.698	1993-03-12	Interworking of Signalling System No. 7 ISUP, TUP and Signalling System No. 6 using arrow diagrams		In-force
		Interworking between Digital Subscriber Signalling System No. 1 and Signalling System No. 7		-
Q.699	1997-09-12	Interworking between ISDN access and non-ISDN access over ISDN User Part of Signalling System No. 7		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.699 (1997) Add. 1	1999-12-03	DSS1-SS7 interworking for call completion on no reply		In-force
Q.699.1	1998-05-15	Interworking between ISDN access and non-ISDN access over ISDN user part of signalling system No. 7: Support of VPN applications with PSS1 information flows		In-force
		Specifications of Signalling System No. 7		-
		General		In-force
Q.700	1993-03-12	Introduction to CCITT Signalling System No. 7		In-force
		Message transfer part (MTP)		-
Q.701	1993-03-12	Functional description of the message transfer part (MTP) of Signalling System No. 7		In-force
Q.702	1988-11-25	Signalling data link		In-force
Q.703	1996-07-09	Signalling link		In-force
Q.704	1996-07-09	Signalling network functions and messages		In-force
Q.705	1993-03-12	Signalling network structure		In-force
Q.706	1993-03-12	Message transfer part signalling performance		In-force
Q.707	1988-11-25	Testing and maintenance		In-force
Q.708	1999-03-15	Assignment procedures for international signalling point codes		In-force
Q.709	1993-03-12	Hypothetical signalling reference connection		In-force
Q.710	1988-11-25	Simplified MTP version for small systems		In-force
		Signalling connection control part (SCCP)		-
Q.711	2001-03-01	Functional description of the signalling connection control part		In-force
Q.712	1996-07-09	Definition and function of Signalling connection control part messages		In-force
Q.713	2001-03-01	Signalling connection control part formats and codes		In-force
Q.714	2001-05-25	Signalling connection control part procedures		In-force
Q.715	2002-04-13	Signalling connection control part user guide		In-force
Q.716	1993-03-12	Signalling System No. 7 – Signalling connection control part (SCCP) performance		In-force
		Telephone user part (TUP)		In-force
Q.721	1988-11-25	Functional description of the Signalling System No. 7 Telephone User Part (TUP)		In-force
Q.722	1988-11-25	General function of telephone messages and signals		In-force
Q.723	1988-11-25	Telephone user part formats and codes		In-force
Q.723 (1988) Amd. 1	1993-03-12		Published as a covering note	In-force
Q.724	1988-11-25	Telephone user part signalling procedures		In-force
Q.724 (1988) Amd. 1	1993-03-12		Published as a covering note	In-force
Q.725	1993-03-12	Signalling performance in the telephone application		In-force
		ISDN supplementary services		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.730	1999-12-03	ISDN User Part supplementary services		In-force
Q.731		Stage 3 description for number identification supplementary services using Signalling System No. 7		-
Q.731.1	1996-07-09	Direct-dialling-in (DDI)		In-force
Q.731.3	1993-03-12	Calling line identification presentation (CLIP)		In-force
Q.731.4	1993-03-12	Calling line identification restriction (CLIR)		In-force
Q.731.5	1993-03-12	Connected line identification presentation (COLP)		In-force
Q.731.6	1993-03-12	Connected line identification restriction (COLR)		In-force
Q.731.7	1997-06-05	Malicious call identification (MCID)		In-force
Q.731.8	1992-02-04	Sub-addressing (SUB)	Published with ITU-T Q.731.1	In-force
Q.732		Stage 3 description for call offering supplementary services using Signalling System No. 7		-
Q.732.2-5	1999-12-03	Call diversion services: - Call forwarding busy - Call forwarding no reply - Call forwarding unconditional - Call deflection	Call diversion Recommendation groups four services the stage 3 descriptions of which are similar: Q.732.2 – Call Forwarding Busy (CFB) Q.732.3 – Call Forwarding No Reply (CFNR) Q.732.4 – Call Forwarding Unconditional (CFU) Q.732.5 – Ca	In-force
Q.732.2-5 (1999) Amd. 1	2001-07-13			In-force
Q.732.7	1996-07-09	Explicit call transfer		In-force
Q.733		Stage 3 description for call completion supplementary services using Signalling System No. 7		-
Q.733.1	1992-02-04	Call waiting (CW)		In-force
Q.733.2	1993-03-12	Call hold (HOLD)	Published with ITU-T Q.733.4	In-force
Q.733.3	1997-06-05	Completion of calls to busy subscriber (CCBS)		In-force
Q.733.3 (1997) Amd. 1	2001-07-13			In-force
Q.733.4	1993-03-12	Terminal portability (TP)	Published with ITU-T Q.733.2	In-force
Q.733.5	1999-12-03	Completion of calls on no reply		In-force
Q.734		Stage 3 description for multiparty supplementary services using Signalling System No. 7		-
Q.734.1	1993-03-12	Conference calling	Published with ITU-T Q.734.2	In-force
Q.734.2	1996-07-09	Three-party service		In-force
Q.735		Stage 3 description for community of interest supplementary services using Signalling System No. 7		-

Number	Approval date	Recommendation Title	Observation	Status
Q.735.1	1993-03-12	Closed user group (CUG)		In-force
Q.735.3	1993-03-12	Multi-level precedence and preemption		In-force
Q.735.6	1996-07-09	Global virtual network service (GVNS)		In-force
Q.736		Stage 3 description for charging supplementary services using Signalling System No. 7		-
Q.736.1	1995-10-17	International Telecommunication Charge Card (ITCC)		In-force
Q.736.3	1995-10-17	Reverse charging (REV)		In-force
Q.737		Stage 3 description for additional information transfer supplementary services using Signalling System No. 7		-
Q.737.1	1997-06-05	User-to-user signalling (UUS)		In-force
		Signalling System No. 7 management		In-force
Q.750	1997-06-05	Overview of Signalling System No. 7 management		In-force
Q.751.1	1995-10-17	Network element management information model for the Message Transfer Part (MTP)		In-force
Q.751.2	1997-06-05	Network element management information model for the Signalling Connection Control Part		In-force
Q.751.3	1997-09-12	Network element information model for MTP accounting		In-force
Q.751.4	1998-05-15	Network element information model for SCCP accounting and accounting verification		In-force
Q.752	1997-06-05	Monitoring and measurements for Signalling System No. 7 networks		In-force
Q.753	1997-06-05	Signalling System No. 7 management functions MRVT, SRVT and CVT and definition of the OMASE-user		In-force
Q.754	1997-06-05	Signalling System No. 7 management application service element (ASE) definitions		In-force
Q.755	1993-03-12	Signalling System No. 7 protocol tests		In-force
Q.755.1	1998-05-15	MTP protocol tester		In-force
Q.755.2	1997-09-12	Transaction capabilities test responder		In-force
Q.756	1997-06-05	Guidebook to Operations, Maintenance and Administration Part (OMAP)		In-force
		ISDN user part		-
Q.761	1999-12-03	Signalling System No. 7 – ISDN User Part functional description		In-force
Q.761 (1999) Amd. 1	2001-07-13			In-force
Q.761 (1999) Amd. 2	2002-12-29	Support for the International Emergency Preference Scheme		In-force
Q.761 (1999) Amd. 3	2006-01-27	Support for the International Emergency Preference Scheme		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.761 (1999) Amd. 4	2009-10-29	Support for the customized alerting tone (CAT) service		In-force
Q.762	1999-12-03	Signalling System No. 7 – ISDN User Part general functions of messages and signals		In-force
Q.762 (1999) Add. 1	2000-06-15			In-force
Q.762 (1999) Amd. 1	2002-12-29	Support for the International Emergency Preference Scheme		In-force
Q.762 (1999) Amd. 2	2004-04-13			In-force
Q.762 (1999) Amd. 3	2006-01-27	Support for the International Emergency Preference Scheme		In-force
Q.762 (1999) Amd. 4	2006-09-13	Transport of Voice Enhancement Device related information		In-force
Q.762 (1999) Amd. 5	2009-10-29	Support for the customized alerting tone (CAT) service		In-force
Q.763	1999-12-03	Signalling System No. 7 – ISDN User Part formats and codes		In-force
Q.763 (1999) Amd. 1	2001-03-01	Coding of the Application Transport Parameter	Supersedes Q.763 (1999) Add.1	In-force
Q.763 (1999) Cor. 1	2001-07-13			In-force
Q.763 (1999) Amd. 2	2002-12-29	Support for the International Emergency Preference Scheme		In-force
Q.763 (1999) Amd. 3	2004-04-13			In-force
Q.763 (1999) Amd. 4	2006-01-27	Support for the International Emergency Preference Scheme		In-force
Q.763 (1999) Amd. 5	2006-09-13	Transport of Voice Enhancement Device related information		In-force
Q.763 (1999) Amd. 6	2009-10-29	Support for the customized alerting tone (CAT) service		In-force
Q.764	1999-12-03	Signalling System No. 7 – ISDN User Part signalling procedures		In-force
Q.764 (1999) Amd. 1	2001-07-13			In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.764 (1999) Amd. 2	2002-12-29	Support for the International Emergency Preference Scheme		In-force
Q.764 (1999) Amd. 3	2004-04-13			In-force
Q.764 (1999) Amd. 4	2006-01-27	Support for the International Emergency Preference Scheme		In-force
Q.764 (1999) Amd. 5	2006-09-13	Transport of Voice Enhancement Device related information		In-force
Q.765	2000-06-15	Signalling system No. 7 – Application transport mechanism		In-force
Q.765 bis	1999-12-03	Signalling system No. 7 – Application transport mechanism: Test suite structure and test purposes (TSS & TP)		In-force
Q.765.1	1998-05-15	Signalling system No. 7 – Application transport mechanism: Support of VPN applications with PSS1 information flows		In-force
Q.765.1 bis	1999-12-03	Abstract test suite for the APM support of VPN applications	This Recommendation includes an electronic attachment containing the ATS for ISUP'97 for APM support of VPN in machine processable form and in pdf form	In-force
Q.765.1 bis (1999) Amd. 1	2000-12-06		This amendment is published in English only. It includes an electronic attachment containing the ATS for support of VPN applications	In-force
Q.765.4	2000-06-15	Signalling system No. 7 – Application transport mechanism: Support of the generic addressing and transport protocol		In-force
Q.765.5	2004-04-13	Signalling system No. 7 – Application transport mechanism: Bearer Independent Call Control (BICC)		In-force
Q.766	1993-03-12	Performance objectives in the integrated services digital network application		In-force
Q.767	1991-02-15	Application of the ISDN User Part of CCITT signalling system No. 7 for international ISDN interconnections		In-force
Q.767 (1991) Amd. 1	2002-12-29	Support for the International Emergency Preference Scheme		In-force
Q.768	1995-10-17	Signalling interface between an international switching centre and an ISDN satellite subnetwork		In-force
Q.769.1	1999-12-03	Signalling system No. 7 – ISDN user part enhancements for the support of number portability		In-force
		Transaction capabilities application part		-

Number	Approval date	Recommendation Title	Observation	Status
Q.771	1997-06-05	Functional description of transaction capabilities		In-force
Q.772	1997-06-05	Transaction capabilities information element definitions		In-force
Q.773	1997-06-05	Transaction capabilities formats and encoding		In-force
Q.774	1997-06-05	Transaction capabilities procedures		In-force
Q.775	1997-06-05	Guidelines for using transaction capabilities		In-force
		Test specification		In-force
Q.780	1995-10-17	Signalling System No. 7 test specification – General description		In-force
Q.781	2002-04-13	MTP level 2 test specification		In-force
Q.782	2002-04-13	MTP level 3 test specification		In-force
Q.783	1988-11-25	TUP test specification		In-force
Q.784	1991-02-15	ISUP basic call test specification		In-force
Q.784 Annex A	1993-03-12	TTCN version of Recommendation Q.784		In-force
Q.784.1	1996-07-09	ISUP basic call test specification: Validation and compatibility for ISUP'92 and Q.767 protocols		In-force
Q.784.1 (1996) Cor. 1	1999-12-03			In-force
Q.784.2	1997-06-05	ISUP basic call test specification: Abstract test suite for ISUP'92 basic call control procedures	This Recommendation includes 1 diskette containing Annex D ISUP '92 ATS for Basic Call in graphical and in machine processable form	In-force
Q.784.3	1999-12-03	ISUP basic call test specification: ISUP '97 basic call control procedures – Test suite structure and test purposes (TSS & TP)	This Recommendation includes an electronic attachment containing the ATS for ISUP'97 basic call control procedures in machine processable form and in pdf form	In-force
Q.784.3 (1999) Amd. 1	2000-12-06		This amendment is published in English only. It includes an electronic attachment containing the ATS for for ISUP'97 basic call control procedures	In-force
Q.785	1991-09-10	ISUP protocol test specification for supplementary services		In-force
Q.785.2	1999-03-15	ISUP'97 supplementary services – Test suite structure and test purposes (TSS & TP)	This Recommendation includes 1 CD-ROM containing the ISUP'97 ATS for Supplementary Services in machine processable form and in graphical form	In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.785.2 (1999) Erratum 1	2002-02-26		This Erratum includes an electronic attachment containing the ISUP'97 ATS for Supplementary Services version 12/1999	In-force
Q.785.2 (1999) Amd. 1	2000-12-06	New Appendix I – Additional test configuration for ISUP'97 supplementary services	This amendment includes an electronic attachment containing the ISUP'97 ATS for Supplementary Services for Appendix I configuration	In-force
Q.786	1993-03-12	SCCP test specification		In-force
Q.787	1997-09-12	Transaction capabilities (TC) test specification		In-force
Q.788	1997-06-05	User-network-interface to user-network-interface compatibility test specifications for ISDN, non-ISDN and undetermined accesses interworking over international ISUP		In-force
		Q3 interface		-
Q.811	2004-02-13	Lower layer protocol profiles for the Q and X interfaces		In-force
Q.812	2004-02-13	Upper layer protocol profiles for the Q and X interfaces		In-force
Q.813	1998-06-26	Security transformations application service element for remote operations service element (STASE-ROSE)		In-force
Q.814	2000-02-04	Specification of an electronic data interchange interactive agent		In-force
Q.815	2000-02-04	Specification of a security module for whole message protection		In-force
Q.816	2001-01-19	CORBA-based TMN services		In-force
Q.816 (2001) Cor. 1	2001-08-13			In-force
Q.816 (2001) Amd. 1	2001-08-13	OMG services profile		In-force
Q.816 (2001) Amd. 2	2002-05-29	User Guide for local name resolution		In-force
Q.816 (2001) Cor. 2	2002-08-06			In-force
Q.816.1	2001-08-13	CORBA-based TMN services: Extensions to support coarse-grained interfaces		In-force
Q.816.2	2007-03-16	CORBA-based TMN services: Extensions to support service-oriented interfaces		In-force
Q.817	2001-01-19	TMN PKI – Digital certificates and certificate revocation lists profiles		In-force
Q.818	2012-05-14	Web service-based management services		In-force
Q.821	2000-02-04	Stage 2 and Stage 3 description for the Q3 interface – Alarm Surveillance		In-force
Q.821.1	2001-09-29	CORBA-based TMN alarm surveillance service		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.822	1994-04-07	Stage 1, stage 2 and stage 3 description for the Q3 interface – Performance management		In-force
Q.822 (1994) Amd. 1	2003-03-29	Generic transport performance management		In-force
Q.822.1	2001-10-07	CORBA-based TMN performance management service		In-force
Q.822.1 (2001) Amd. 1	2003-03-29	Generic transport performance management		In-force
Q.823	1996-07-09	Stage 2 and stage 3 functional specifications for traffic management		In-force
Q.823.1	1997-10-24	Management Conformance Statement Proformas		In-force
Q.824		Stage 2 and stage 3 description for the Q3 interface – Customer administration		-
Q.824.0	1995-10-17	Common information		In-force
Q.824.1	1995-10-17	Integrated Services Digital Network (ISDN) basic and primary rate access		In-force
Q.824.2	1995-10-17	Integrated Services Digital Network (ISDN) supplementary services		In-force
Q.824.3	1995-10-17	Integrated Services Digital Network (ISDN) optional user facilities		In-force
Q.824.4	1995-10-17	Integrated Services Digital Network (ISDN) teleservices		In-force
Q.824.5	1997-10-24	Configuration management of V5 interface environments and associated customer profiles		In-force
Q.824.5 (1997) Cor. 1	2000-02-04			In-force
Q.824.6	1998-06-26	Broadband Switch Management		In-force
Q.824.7	2000-02-04	Enhanced broadband switch management		In-force
Q.825	1998-06-26	Specification of TMN applications at the Q3 interface: call detail recording		In-force
Q.826	2000-02-04	Routing management model		In-force
Q.827.1	2004-10-07	Requirements and analysis for the common management functions of NMS-EMS interfaces		In-force
Q.827.1 (2004) Amd. 1	2007-03-16	Addition of a common managed entity EMS		In-force
Q.831	1997-10-24	Fault and performance management of V5 interface environments and associated customer profiles		In-force
Q.831 (1997) Cor. 1	2001-03-01			In-force
Q.831.1	2000-02-04	Access Management for V5		In-force
Q.832.1	1998-06-26	VB5.1 Management		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.832.1 (1998) Cor. 1	2001-03-01			In-force
Q.832.2	1999-03-26	VB5.2 Management		In-force
Q.832.3	2001-01-19	Broadband access coordination		In-force
Q.833.1	2001-01-19	Asymmetric digital subscriber line (ADSL) – Network element management: CMIP model		In-force
Q.834.1	2004-06-13	ATM-PON requirements and managed entities for the network and network element views		In-force
Q.834.3	2004-06-13	A UML description for management interface requirements for Broadband Passive Optical Networks		In-force
Q.834.4	2003-07-07	A CORBA interface specification for Broadband Passive Optical Networks based on UML interface requirements	This edition includes the modifications introduced by Q.834.4 (2003) Cor.1 approved on 13 January 2004	In-force
Q.834.4 (2003) Cor. 1	2004-01-13		This corrigendum was never published, its content having been included in the published ITU-T Rec. Q.834.4 (07/2003)	In-force
Q.834.4 (2003) Amd. 1	2004-01-13			In-force
Q.835	1999-03-26	Line and line circuit test management of ISDN and analogue customer accesses		In-force
Q.835 (1999) Cor. 1	2001-03-01			In-force
Q.836.1	2000-02-04	SSF management information model		In-force
Q.837.1	2004-02-13	SDH-DLC functional requirements for the network and network element views		In-force
Q.837.2	2007-10-14	Use case descriptions and analysis for SDH-DLC network level management interface		In-force
Q.838.1	2004-10-07	Requirements and analysis for the management interface of Ethernet Passive Optical Networks (EPON)		In-force
Q.840.1	2007-03-16	Requirements and analysis for NMS-EMS management interface of Ethernet over Transport and Metro Ethernet Network (EoT/MEN)		In-force
		Digital subscriber Signalling System No. 1		In-force
		General		-
Q.850	1998-05-15	Usage of cause and location in the Digital Subscriber Signalling System No. 1 and the Signalling System No. 7 ISDN user part		In-force
Q.850 (1998) Add. 1	2000-06-15			In-force
Q.850 (1998) Amd. 1	2001-07-13			In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.860	2000-06-15	Integrated services digital network (ISDN) and broadband integrated services digital network (B-ISDN) generic addressing and transport (GAT) protocol		In-force
		Data link layer		In-force
Q.920	1993-03-12	ISDN user-network interface data link layer – General aspects	This Recommendation is also included but not published in I series under alias number I.440	In-force
Q.920 (1993) Amd. 1	2000-06-15			In-force
Q.921	1997-09-12	ISDN user-network interface – Data link layer specification	This Recommendation is also included but not published in I series under alias number I.441	In-force
Q.921 (1997) Amd. 1	2000-06-15			In-force
Q.921 bis	1993-03-12	Abstract test suite for LAPD conformance testing	This Recommendation includes 5 diskettes containing postscript files of ATS for testing conformance of basic rate user side equipment to Rec. Q.921	In-force
Q.922	1992-02-04	ISDN data link layer specification for frame mode bearer services		In-force
Q.923	1995-02-07	Specification of a synchronization and coordination function for the provision of the OSI connection-mode network service in an ISDN environment		In-force
		Network layer		-
Q.930	1993-03-12	ISDN user-network interface layer 3 – General aspects	This Recommendation is also included but not published in I series under alias number I.450	In-force
Q.931	1998-05-15	ISDN user-network interface layer 3 specification for basic call control	This Recommendation is also included but not published in I series under alias number I.451	In-force
Q.931 (1998) Erratum 1	2003-02-14			In-force
Q.931 (1998) Amd. 1	2002-12-29	Extensions for the support of digital multiplexing equipment		In-force
Q.932	1998-05-15	Digital subscriber signalling system No. 1 – Generic procedures for the control of ISDN supplementary services		In-force
Q.932 (1998) Amd. 1	2000-06-15			In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.933	2003-02-13	ISDN Digital Subscriber Signalling System No. 1 (DSS1) – Signalling specifications for frame mode switched and permanent virtual connection control and status monitoring		In-force
Q.933 bis	1995-10-17	Abstract test suite – Signalling specification for frame mode basic call control conformance testing for permanent virtual connections (PVCs)	This Recommendation includes 1 diskette containing Abstract test suites Section II corresponding to additional procedures for PVCs as per Q.933 Annex A	In-force
Q.939	1993-03-12	Typical DSS1 service indicator codings for ISDN telecommunications services		In-force
		User-network management		In-force
Q.940	1988-11-25	ISDN user-network interface protocol for management – General aspects		In-force
Q.941	1993-03-12	ISDN user-network interface protocol profile for management		In-force
		Stage 3 description for supplementary services using DSS1		In-force
Q.950	2000-06-15	Supplementary services protocols, structure and general principles		In-force
Q.951		Stage 3 description for number identification supplementary services using DSS 1		-
Q.951.1	1992-02-04	Direct-dialling-in (DDI)	Q.951 parts 1, 2 and 8 published together	In-force
Q.951.2	1992-02-04	Multiple subscriber number (MSN)	Q.951 parts 1, 2 and 8 published together	In-force
Q.951.3	1993-03-12	Calling line identification presentation	Q.951 parts 3-6 published together	In-force
Q.951.4	1993-03-12	Calling line identification restriction	Q.951 parts 3-6 published together	In-force
Q.951.5	1993-03-12	Connected line identification presentation	Q.951 parts 3-6 published together	In-force
Q.951.6	1993-03-12	Connected line identification restriction	Q.951 parts 3-6 published together	In-force
Q.951.7	1997-06-05	Malicious call identification (MCID)		In-force
Q.951.8	1992-02-04	Sub-addressing (SUB)	Q.951 parts 1, 2 and 8 published together	In-force
Q.952	1993-03-12	Stage 3 description for call offering supplementary services using DSS1 – Diversion supplementary services		In-force
Q.952.7	1997-06-05	Stage 3 description for call offering supplementary services using DSS1: Explicit call transfer (ECT)		In-force
Q.953		Stage 3 description for call completion supplementary services using DSS 1		-
Q.953.1	1992-02-04	Call waiting		In-force
Q.953.2	1993-03-12	Call hold		In-force
Q.953.3	1997-06-05	Completion of calls to busy subscribers (CCBS)		In-force
Q.953.4	1995-10-17	Terminal Portability (TP)		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.953.5	1999-12-03	Call Completion on No Reply (CCNR)	This Recommendation includes 1 diskette containing the SDL process diagrams of DSS1 CCNR in machine processable form	In-force
Q.954		Stage 3 description for multiparty supplementary services using DSS 1		-
Q.954.1	1993-03-12	Conference calling		In-force
Q.954.2	1995-10-17	Three-party service (3PTY)		In-force
Q.955		Stage 3 description for community of interest supplementary services using DSS 1		-
Q.955.1	1992-02-04	Closed user group		In-force
Q.955.3	1993-03-12	Multi-level precedence and preemption (MLPP)		In-force
Q.956		Stage 3 description for charging supplementary services using DSS 1		-
Q.956.2	1995-10-17	Advice of charge		In-force
Q.956.3	1995-10-17	Reverse charging		In-force
Q.957		Stage 3 description for additional information transfer supplementary services using DSS 1		-
Q.957.1	1996-07-09	User-to-user signalling (UUS)		In-force
		Public Land Mobile Network		In-force
		General		In-force
Q.1001	1988-11-25	General aspects of public land mobile networks		In-force
		Interworking with ISDN and PSTN		In-force
		Mobile Application Part		In-force
		Digital PLMN user-network interfaces		In-force
		Interworking with satellite mobile systems		In-force
		Interworking with Standard-A INMARSAT system		-
Q.1100	1993-03-12	Structure of the Recommendations on the INMARSAT mobile satellite systems		In-force
Q.1101	1988-11-25	General requirements for the interworking of the terrestrial telephone network and INMARSAT Standard A system	Formerly Q.60 (1984)	In-force
Q.1102	1988-11-25	Interworking between Signalling System R2 and INMARSAT Standard A system	Formerly Q.61 (1984)	In-force
Q.1103	1988-11-25	Interworking between Signalling System No. 5 and INMARSAT Standard A system	Formerly Q.62 (1984)	In-force
		Interworking with Standard-B INMARSAT system		-
Q.1111	1993-03-12	Interfaces between the INMARSAT Standard B system and the international public switched telephone network/ISDN		In-force
Q.1112	1993-03-12	Procedures for interworking between INMARSAT Standard-B system and the international public switched telephone network/ISDN		In-force

Number	Approval date	Recommendation Title	Observation	Status
		Interworking with the INMARSAT aeronautical mobile-satellite system		In-force
Q.1151	1993-03-12	Interfaces for interworking between the INMARSAT aeronautical mobile-satellite system and the international public switched telephone network/ISDN		In-force
Q.1152	1993-03-12	Procedures for interworking between INMARSAT aeronautical mobile satellite system and the international public switched telephone network/ISDN		In-force
		Intelligent Network		-
Q.1200	1997-09-12	General series Intelligent Network Recommendation structure		In-force
I.312/Q.1201	1992-10-01	Principles of intelligent network architecture	This Recommendation is published with the double number Q.1201 and I.312.	In-force
I.328/Q.1202	1997-09-12	Intelligent network – Service plane architecture	This Recommendation is published with the double number Q.1202 and I.328	In-force
I.329/Q.1203	1997-09-12	Intelligent network – Global functional plane architecture	This Recommendation is published with the double number Q.1203 and I.329	In-force
Q.1204	1993-03-12	Intelligent network distributed functional plane architecture		In-force
Q.1205	1993-03-12	Intelligent network physical plane architecture		In-force
Q.1208	1997-09-12	General aspects of the intelligent network application protocol		In-force
Q.1210	1995-10-17	Q.1210-series intelligent network Recommendation structure		In-force
Q.1211	1993-03-12	Introduction to intelligent network capability set 1		In-force
Q.1213	1995-10-17	Global functional plane for intelligent network CS-1		In-force
Q.1214	1995-10-17	Distributed functional plane for intelligent network CS-1		In-force
Q.1215	1995-10-17	Physical plane for intelligent network CS-1		In-force
Q.1218	1995-10-17	Interface Recommendation for intelligent network CS-1		In-force
Q.1218 (1995) Add. 1	1997-09-12	Definition for two new contexts in the SDF data model		In-force
Q.1219	1994-04-07	Intelligent network user's guide for Capability Set 1		In-force
Q.1220	1997-09-12	Q.1220-Series intelligent network Capability Set 2 Recommendation structure		In-force
Q.1221	1997-09-12	Introduction to intelligent network Capability Set 2		In-force
Q.1222	1997-09-12	Service plane for intelligent network Capability Set 2		In-force
Q.1223	1997-09-12	Global functional plane for intelligent network Capability Set 2		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.1224	1997-09-12	Distributed functional plane for intelligent network Capability Set 2	This Recommendation is published in three fascicles	In-force
Q.1225	1997-09-12	Physical plane for intelligent network Capability Set 2		In-force
Q.1228	1997-09-12	Interface Recommendation for intelligent network Capability Set 2	This Recommendation includes 3 diskettes containing Q.1228 SDL diagrams in SDT source format and in PDF format	In-force
Q.1229	1999-03-15	Intelligent Network user's guide for Capability Set 2		In-force
Q.1231	1999-12-03	Introduction to Intelligent Network Capability Set 3		In-force
Q.1236	1999-12-03	Intelligent Network Capability Set 3 – Management Information Model Requirements and Methodology		In-force
Q.1237	2000-06-15	Extensions to Intelligent Network Capability Set 3 in support of B-ISDN		In-force
Q.1238		Interface Recommendation for intelligent network capability set 3		-
Q.1238.1	2000-06-15	Common aspects	This Recommendation includes an electronic attachment containing the ASN.1 definitions for the IN CS-3 common aspects	In-force
Q.1238.2	2000-06-15	SCF-SSF interface	This Recommendation includes an electronic attachment containing the ASN.1 definitions and the SDL diagrams in machine processable forms and in pdf form for SCF-SFF interface	In-force
Q.1238.3	2000-06-15	SCF-SRF interface	This Recommendation includes an electronic attachment containing the ASN.1 definitions for the IN CS-3 SCF-SRF interface	In-force
Q.1238.4	2000-06-15	SCF-SDF interface	This Recommendation includes an electronic attachment containing the ASN.1 definitions for the IN CS-3 SCF-SDF interface	In-force
Q.1238.5	2000-06-15	SDF-SDF interface	This Recommendation includes an electronic attachment containing the ASN.1 definitions for the IN CS-3 SDF-SDF interface	In-force
Q.1238.6	2000-06-15	SCF-SCF interface	This Recommendation includes an electronic attachment containing the ASN.1 definitions for the IN CS-3 SCF-SCF interface	In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.1238.7	2000-06-15	SCF-CUSF interface	This Recommendation includes an electronic attachment containing the ASN.1 definitions for the IN CS-3 SCF-CUSF interface	In-force
Q.1241	2001-07-13	Introduction to Intelligent Network Capability Set 4		In-force
Q.1244	2001-07-13	Distributed functional plane for Intelligent Network Capability Set 4		In-force
Q.1248		Interface Recommendation for Intelligent Network Capability Set 4		-
Q.1248.1	2001-07-13	Common aspects		In-force
Q.1248.2	2001-07-13	SCF-SSF interface		In-force
Q.1248.3	2001-07-13	SCF-SRF interface		In-force
Q.1248.4	2001-07-13	SCF-SDF interface		In-force
Q.1248.5	2001-07-13	SDF-SDF interface		In-force
Q.1248.6	2001-07-13	SCF-SCF interface		In-force
Q.1248.7	2001-07-13	SCF-CUSF interface		In-force
Q.1290	1998-05-15	Glossary of terms used in the definition of intelligent networks		In-force
Q.1300	1995-10-17	Telecommunication applications for switches and computers (TASC) – General overview		In-force
Q.1301	1995-10-17	Telecommunication applications for switches and computers (TASC) – TASC Architecture		In-force
Q.1302	1995-10-17	Telecommunication applications for switches and computers (TASC) – TASC functional services		In-force
Q.1303	1995-10-17	Telecommunication applications for switches and computers (TASC) – TASC Management: Architecture, methodology and requirements		In-force
Q.1400	1993-03-12	Architecture framework for the development of signalling and OA&M protocols using OSI concepts		In-force
Q.1400 (1993) Add. 1	1995-02-07			In-force
Q.1521	2000-06-15	Requirements on underlying networks and signalling protocols to support UPT		In-force
Q.1531	2000-06-15	UPT security requirements for Service Set 1		In-force
Q.1541	1998-05-15	UPT stage 2 for Service Set 1 on IN CS-1 – Procedures for universal personal telecommunication: Functional modelling and information flows		In-force
Q.1542	2000-06-15	UPT stage 2 for Service Set 1 on IN CS-2 – Procedures for universal personal telecommunication: Functional modelling and information flows		In-force
Q.1551	1997-06-05	Application of Intelligent Network Application Protocols (INAP) CS-1 for UPT service set 1		In-force
Q.1600	1997-09-12	Signalling System No. 7 – Interaction between ISUP and INAP		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.1600 bis	1999-12-03	Signalling system No. 7 – Interaction between ISDN user part ISUP '97 and INAP CS-1: Test suite structure and test purposes (TSS & TP)	This Recommendation includes an electronic attachment containing the ATS in machine processable form and in pdf form for ISUP'97/INAP CS-1 interaction	In-force
Q.1600 bis (1999) Amd. 1	2000-12-06		This amendment is published in English only	In-force
Q.1601	1999-12-03	Signalling system No. 7 – Interaction between N-ISDN and INAP CS-2		In-force
		Signalling requirements and protocols for IMT-2000		In-force
Q.1701	1999-03-15	Framework for IMT-2000 networks		In-force
Q.1702	2002-06-29	Long-term vision of network aspects for systems beyond IMT-2000		In-force
Q.1703	2004-05-29	Service and network capabilities framework of network aspects for systems beyond IMT-2000		In-force
Q.1704	2008-10-14	Functional network architecture for IMT-Advanced		In-force
Q.1706/Y.2801	2006-11-06	Mobility management requirements for NGN		In-force
Q.1707/Y.2804	2008-02-29	Generic framework of mobility management for next generation networks		In-force
Q.1708/Y.2805	2008-10-14	Framework of location management for NGN		In-force
Q.1709/Y.2806	2008-10-14	Framework of handover control for NGN		In-force
Q.1711	1999-03-15	Network functional model for IMT-2000		In-force
Q.1721	2000-06-15	Information flows for IMT-2000 capability set 1		In-force
Q.1731	2000-06-15	Radio-technology independent requirements for IMT-2000 layer 2 radio interface		In-force
Q.1741.1	2002-04-29	IMT-2000 references to release 1999 of GSM evolved UMTS core network with UTRAN access network		In-force
Q.1741.2	2002-12-29	IMT-2000 references to release 4 of GSM evolved UMTS core network with UTRAN access network		In-force
Q.1741.3	2003-09-13	IMT-2000 references to release 5 of GSM evolved UMTS core network		In-force
Q.1741.4	2005-10-29	IMT-2000 references to release 6 of GSM evolved UMTS core network		In-force
Q.1741.5	2008-10-14	IMT-2000 references to Release 7 of GSM-evolved UMTS core network		In-force
Q.1741.6	2009-10-29	IMT-2000 references to Release 8 of GSM-evolved UMTS core network		In-force
Q.1741.7	2011-11-29	IMT-2000 references to Release 9 of GSM-evolved UMTS core network		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.1742.1	2002-12-14	IMT-2000 references to ANSI-41 evolved core network with cdma2000 access network		In-force
Q.1742.2	2003-07-29	IMT-2000 references (approved as of 11 July 2002) to ANSI-41 evolved core network with cdma2000 access network		In-force
Q.1742.2 (2003) Erratum 1	2004-03-17			In-force
Q.1742.3	2004-01-10	IMT-2000 references (approved as of 30 June 2003) to ANSI-41 evolved core network with cdma2000 access network		In-force
Q.1742.4	2005-04-29	IMT-2000 references (approved as of 30 June 2004) to ANSI-41 evolved core network with cdma2000 access network		In-force
Q.1742.5	2006-09-13	IMT-2000 references (approved as of 31 December 2005) to ANSI-41 evolved core network with cdma2000 access network		In-force
Q.1742.6	2007-08-13	IMT-2000 references (approved as of 31 December 2006) to ANSI-41 evolved core network with cdma2000 access network		In-force
Q.1742.7	2008-10-14	IMT-2000 references (approved as of 30 June 2008) to ANSI-41 evolved core network with cdma2000 access network		In-force
Q.1742.8	2010-06-13	IMT-2000 references (approved as of 31 January 2010) to ANSI-41 evolved core network with cdma2000 access network		In-force
Q.1742.9	2011-11-29	IMT-2000 references (approved as of 31 December 2010) to ANSI-41 evolved core network with cdma2000 access network		In-force
Q.1751	2000-06-15	Internetwork signalling requirements for IMT-2000 capability set 1		In-force
Q.1761	2004-01-10	Principles and requirements for convergence of fixed and existing IMT-2000 systems		In-force
Q.1762/Y.2802	2007-09-21	Fixed-mobile convergence general requirements		In-force
Q.1763/Y.2803	2007-10-29	FMC service using legacy PSTN or ISDN as the fixed access network for mobile network users		In-force
		Specifications of signalling related to Bearer Independent Call Control (BICC)		-
Q.1901	2000-06-15	Bearer Independent Call Control protocol		In-force
Q.1901 (2000) Cor. 1	2002-04-13			In-force
Q.1902.1	2001-07-02	Bearer Independent Call Control protocol (Capability Set 2): Functional description		In-force
Q.1902.1 (2001) Amd. 1	2002-12-29	Support for the International Emergency Preference Scheme		In-force
Q.1902.1 (2001) Amd. 2	2006-01-27	Support for the International Emergency Preference Scheme		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.1902.1 (2001) Amd. 3	2009-10-29	Support for the customized alerting tone service		In-force
Q.1902.2	2001-07-02	Bearer Independent Call Control protocol (Capability Set 2) and Signalling System No.7 ISDN User Part: General functions of messages and parameters		In-force
Q.1902.2 (2001) Amd. 1	2002-12-29	Support for the International Emergency Preference Scheme		In-force
Q.1902.2 (2001) Amd. 2	2004-04-13			In-force
Q.1902.2 (2001) Amd. 3	2006-01-27	Support for the International Emergency Preference Scheme		In-force
Q.1902.2 (2001) Amd. 4	2006-09-13	Transport of Voice Enhancement Device related information		In-force
Q.1902.2 (2001) Amd. 5	2009-10-29	Support for the customized alerting tone (CAT) service		In-force
Q.1902.3	2001-07-02	Bearer Independent Call Control protocol (Capability Set 2) and Signalling System No.7 ISDN User Part: Formats and codes		In-force
Q.1902.3 (2001) Cor. 1	2002-04-13		Not published, directly consolidated with ITU-T Q.1902.3 (07/2001) text	In-force
Q.1902.3 (2001) Amd. 1	2002-12-29	Support for the International Emergency Preference Scheme		In-force
Q.1902.3 (2001) Amd. 2	2004-04-13			In-force
Q.1902.3 (2001) Amd. 3	2006-01-27	Support for the International Emergency Preference Scheme		In-force
Q.1902.3 (2001) Amd. 4	2006-09-13	Transport of Voice Enhancement Device related information		In-force
Q.1902.3 (2001) Amd. 5	2009-10-29	Support for the customized alerting tone (CAT) service		In-force
Q.1902.4	2001-07-02	Bearer independent call control protocol (Capability Set 2): Basic call procedures		In-force
Q.1902.4 (2001) Cor. 1	2002-04-13		Not published, directly consolidated with ITU-T Q.1902.4 (07/2001) text	In-force
Q.1902.4 (2001) Amd. 1	2002-12-29	Support for the International Emergency Preference Scheme		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.1902.4 (2001) Amd. 2	2004-04-13			In-force
Q.1902.4 (2001) Amd. 3	2006-01-27	Support for the International Emergency Preference Scheme		In-force
Q.1902.4 (2001) Amd. 4	2006-09-13	Transport of Voice Enhancement Device related information		In-force
Q.1902.5	2001-07-02	Bearer Independent Call Control protocol (Capability Set 2): Exceptions to the Application transport mechanism in the context of BICC		In-force
Q.1902.6	2001-07-02	Bearer Independent Call Control protocol (Capability Set 2): Generic signalling procedures for the support of the ISDN User Part supplementary services and for bearer redirection		In-force
Q.1902.6 (2001) Amd. 1	2004-04-13			In-force
Q.1912.1	2001-07-02	Interworking between Signalling System No. 7 ISDN user part and the Bearer Independent Call Control protocol		In-force
Q.1912.2	2001-07-02	Interworking between selected signalling systems (PSTN access, DSS1, C5, R1, R2, TUP) and the Bearer Independent Call Control protocol		In-force
Q.1912.3	2001-07-02	Interworking between H.323 and the Bearer Independent Call Control protocol		In-force
Q.1912.4	2001-07-02	Interworking between Digital Subscriber Signalling System No. 2 and the Bearer Independent Call Control protocol		In-force
Q.1912.5	2004-03-12	Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control protocol or ISDN User Part		In-force
Q.1912.5 B	2008-10-14	Interworking between session initiation protocol (SIP) and bearer independent call control protocol (BICC) or ISDN user part (ISUP): Protocol implementation conformance statement (PICS)		In-force
Q.1912.5 C	2008-10-14	Interworking between session initiation protocol (SIP) and bearer independent call control protocol (BICC) or ISDN user part (ISUP): Test suite structure and test purposes (TSS&TP) for profiles A and B		In-force
Q.1912.5 D	2008-10-14	Interworking between session initiation protocol (SIP) and bearer independent call control protocol (BICC) or ISDN user part (ISUP): Test suite structure and test purposes (TSS&TP) for profile C		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.1912.5 E	2008-10-14	Interworking between session initiation protocol (SIP) and bearer independent call control protocol (BICC) or ISDN user part (ISUP): Abstract test suite (ATS) and partial protocol implementation extra information for testing (PIXIT) for profiles A and B		In-force
Q.1912.5 F	2011-03-16	Interworking between session initiation protocol (SIP) and bearer independent call control protocol (BICC) or ISDN user part (ISUP): Abstract test suite (ATS) and partial protocol implementation extra information for testing (PIXIT) for profile C		In-force
Q.1922.2	2001-07-02	Interaction between the Intelligent Network Application Protocol Capability Set 2 and the Bearer Independent Call Control protocol		In-force
Q.1922.4	2002-12-29	Interaction between the Intelligent Network application CS-4 protocol and the Bearer Independent Call Control protocol		In-force
Q.1930	2002-04-13	BICC access network protocol		In-force
Q.1950	2002-12-29	Bearer independent call bearer control protocol		In-force
Q.1950 (2002) Amd. 1	2006-01-27	New Annex G – Call bearer control – International Emergency Preference Scheme		In-force
Q.1970	2006-09-13	BICC IP bearer control protocol		In-force
Q.1980.1	2004-12-10	The Narrowband Signalling Syntax (NSS) – Syntax definition		In-force
Q.1990	2001-07-02	BICC Bearer Control Tunnelling Protocol		In-force
		Broadband ISDN		-
		General aspects		-
Q.2010	1995-02-07	Broadband integrated services digital network overview – Signalling capability set 1, release 1		In-force
		Signalling ATM adaptation layer (SAAL)		-
Q.2100	1994-07-29	B-ISDN signalling ATM adaptation layer (SAAL) – Overview description		In-force
Q.2110	1994-07-29	B-ISDN ATM adaptation layer – Service specific connection oriented protocol (SSCOP)		In-force
Q.2111	1999-12-03	B-ISDN ATM adaptation layer – Service specific connection oriented protocol in a multilink and connectionless environment (SSCOPMCE)		In-force
Q.2111 (1999) Amd. 1	2001-07-13			In-force
Q.2111 (1999) Amd. 2	2002-04-13	API for SSCOPMCE over Ethernet		In-force
Q.2111 (1999) Amd. 2 Erratum 1	2004-03-17			In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.2111 (1999) Amd. 3	2003-10-14	API for SSCOPMCE over Ethernet and UDP port number		In-force
Q.2111 (1999) Amd. 3 Erratum 1	2004-07-30			In-force
Q.2119	1996-07-09	B-ISDN ATM adaptation layer – Convergence function for SSCOP above the frame relay core service		In-force
Q.2120	1995-02-07	B-ISDN meta-signalling protocol		In-force
Q.2130	1994-07-29	B-ISDN signalling ATM adaptation layer – Service specific coordination function for support of signalling at the user-network interface (SSCF at UNI)		In-force
Q.2140	1995-02-07	B-ISDN ATM adaptation layer – Service specific coordination function for signalling at the network node interface (SSCF at NNI)		In-force
Q.2140 (1995) Erratum 1	2004-03-12			In-force
Q.2144	1995-10-17	B-ISDN signalling ATM adaptation layer – Layer management for the SAAL at the network node interface		In-force
Q.2150.0	2001-05-15	Generic signalling transport service		In-force
Q.2150.1	2001-05-15	Signalling transport converter on MTP3 and MTP3b		In-force
Q.2150.2	2001-05-15	Signalling transport converter on SSCOP and SSCOPMCE		In-force
Q.2150.3	2002-12-29	Signalling transport converter on SCTP		In-force
		Signalling network protocols		In-force
Q.2210	1996-07-09	Message transfer part level 3 functions and messages using the services of ITU-T Recommendation Q.2140		In-force
Q.2220	2002-12-29	Transport-Independent Signalling Connection Control Part (TI-SCCP)		In-force
		Common aspects of B-ISDN application protocols for access signalling and network signalling and interworking		In-force
Q.2610	1999-12-03	Usage of cause and location in B-ISDN user part and DSS2		In-force
Q.2630.1	1999-12-03	AAL type 2 signalling protocol – Capability Set 1		In-force
Q.2630.1 Annex B	2001-03-01	SDL definition of the AAL type 2 signalling protocol CS-1		In-force
Q.2630.2	2000-12-06	AAL type 2 signalling protocol – Capability Set 2		In-force
Q.2630.2 Annex D	2002-04-13	SDL definition of the AAL type 2 signalling protocol CS-2		In-force
Q.2630.3	2003-10-14	AAL type 2 signalling protocol – Capability Set 3		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.2630.3 (2003) Amd. 1	2006-01-27	Support for the International Emergency Preference Scheme		In-force
Q.2631.1	2003-10-14	IP connection control signalling protocol – Capability Set 1		In-force
Q.2632.1	2003-10-14	Interworking between AAL type 2 signalling protocol Capability Set 2 and IP connection control signalling protocol Capability Set 1		In-force
Q.2650	1999-12-03	Interworking between signalling system No. 7 broadband ISDN User Part (B-ISUP) and digital subscriber signalling system No. 2 (DSS2)		In-force
Q.2660	1999-12-03	Interworking between signalling system No. 7 broadband ISDN user part (B-ISUP) and narrow-band ISDN user part (N-ISUP)		In-force
		B-ISDN application protocols for the network signalling		-
Q.2722.1	1996-07-09	B-ISDN user part – Network node interface specification for point-to-multipoint call/connection control		In-force
Q.2722.1 (1996) Amd. 1	2000-06-15			In-force
Q.2724.1	1996-07-09	B-ISDN user part – Look-ahead without state change for the network node interface		In-force
Q.2726.2	1996-07-09	B-ISDN user part – Call priority		In-force
Q.2726.3	1996-07-09	B-ISDN user part – Network generated session identifier		In-force
Q.2726.4	2000-06-15	Extensions to the B-ISDN User Part – Application generated identifiers		In-force
Q.2730	1999-12-03	Signalling system No. 7 B-ISDN user part (B-ISUP) – Supplementary services		In-force
Q.2735		Stage 3 description for community of interest supplementary services for B-ISDN using SS No. 7		-
Q.2735.1	1997-06-05	Closed User Group (CUG)		In-force
Q.2751.1	1997-09-12	Extension of Q.751.1 for SAAL signalling links		In-force
Q.2761	1999-12-03	Functional description of the B-ISDN user part (B-ISUP) of signalling system No. 7		In-force
Q.2761 (1999) Amd. 1	2002-12-29	Support for the International Emergency Preference Scheme		In-force
Q.2762	1999-12-03	General functions of messages and signals of the B-ISDN User Part (B-ISUP) of Signalling System No. 7		In-force
Q.2762 (1999) Amd. 1	2002-12-29	Support for the International Emergency Preference Scheme		In-force
Q.2763	1999-12-03	Signalling System No. 7 B-ISDN User Part (B-ISUP) – Formats and codes		In-force
Q.2763 (1999) Amd. 1	2002-12-29	Support for the International Emergency Preference Scheme		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.2764	1999-12-03	Signalling System No. 7 B-ISDN User Part (B-ISUP) – Basic call procedures		In-force
Q.2764 (1999) Amd. 1	2002-12-29	Support for the International Emergency Preference Scheme		In-force
Q.2765	1999-12-03	Signalling System No. 7 B-ISDN User Part (B-ISUP) – Application transport mechanism (APM)		In-force
Q.2766.1	1998-05-15	Switched virtual path capability		In-force
Q.2766.1 (1998) Amd. 1	2000-06-15			In-force
Q.2767.1	2000-06-15	Soft PVC capability		In-force
Q.2769.1	2000-06-15	Support of number portability information across B-ISUP		In-force
		B-ISDN application protocols for access signalling		In-force
Q.2920	2003-12-22	Broadband integrated services digital network (B-ISDN) – Digital Subscriber Signalling System No. 2 (DSS 2): Call/connection control for the support of ATM-MPLS network interworking		In-force
Q.2931	1995-02-07	Digital Subscriber Signalling System No. 2 – User-Network Interface (UNI) layer 3 specification for basic call/connection control	Modified by ITU-T Q.2971 (10/1995)	In-force
Q.2931 (1995) Amd. 1	1997-06-05			In-force
Q.2931 (1995) Amd. 2	1999-03-15			In-force
Q.2931 (1995) Amd. 3	1999-03-15			In-force
Q.2931 (1995) Amd. 4	1999-12-03			In-force
Q.2931 (1995) Amd. 2/Cor. 1	2000-06-15			In-force
Q.2931 (1995) Amd. 5	2006-01-27	Support for the International Emergency Preference Scheme		In-force
Q.2931 B	2000-12-06	Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS2) – User-network interface (UNI) layer 3 specification for basic call/connection control: Protocol implementation conformance statement (PICS) proform	ITU-T Q.2931 B was previously numbered as Q.2931 bis during the approval process. It is published in English only	In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.2931 C	2000-12-06	Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS2) – User-network interface (UNI) layer 3 specification for basic call/connection control: Test suite structure and test purposes (TSS & TP) for the us	ITU-T Q.2931 C was previously numbered as Q.2931 ter during the approval process. It is published in English only	In-force
Q.2931 D	2000-12-06	Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS2) – User-network interface (UNI) layer 3 specification for basic call/connection control: Abstract Test Suite (ATS) and partial Protocol Implementatio	ITU-T Q.2931 D was previously numbered as Q.2931 quater during the approval process. It is published in English only	In-force
Q.2931 E	2000-12-06	Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS2) – User-network interface (UNI) layer 3 specification for basic call/connection control: Test suite structure and test purposes (TSS & TP) for the ne	ITU-T Q.2931 E was previously numbered as Q.2931 quinquies during the approval process. It is published in English only	In-force
Q.2931 F	2000-12-06	Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS2) – User-network interface (UNI) layer 3 specification for basic call/connection control: Abstract Test Suite (ATS) and partial Protocol Implementatio	ITU-T Q.2931 F was previously numbered as Q.2931 sexies during the approval process. It is published in English only	In-force
Q.2932		Digital subscriber signalling system No. 2 – Generic functional protocol		-
Q.2932.1	1996-07-09	Core functions		In-force
Q.2933	1996-07-09	Digital subscriber signalling system No. 2 – Signalling specification for frame relay service		In-force
Q.2934	1998-05-15	Digital subscriber signalling system No. 2 – Switched virtual path capability		In-force
Q.2939.1	1997-09-12	Digital Subscriber Signalling System No. 2 – Application of DSS2 service-related information elements by equipment supporting B-ISDN services		In-force
Q.2941.1	1997-09-12	Digital Subscriber Signalling System No. 2 – Generic identifier transport		In-force
Q.2941.2	1999-12-03	Digital Subscriber Signalling System No. 2 – Generic identifier transport extensions		In-force
Q.2941.3	2000-06-15	Digital Subscriber Signalling System No. 2 – Generic identifier transport extension for support of bearer independent call control		In-force
Q.2951		Stage 3 description for number identification supplementary services using B-ISDN digital subscriber signalling system No. 2 (DSS2) – Basic Call		-
Q.2951.1	1995-02-07	Direct-Dialling-In (DDI)		In-force
Q.2951.1 (1995) Cor. 1	1998-05-15			In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.2951.2	1995-02-07	Multiple Subscriber Number (MSN)		In-force
Q.2951.3	1995-02-07	Calling Line Identification Presentation (CLIP)		In-force
Q.2951.4	1995-02-07	Calling Line Identification Restriction (CLIR)		In-force
Q.2951.5	1995-02-07	Connected Line Identification Presentation (COLP)		In-force
Q.2951.6	1995-02-07	Connected Line Identification Restriction (COLR)		In-force
Q.2951.8	1995-02-07	Sub-addressing (SUB)		In-force
Q.2951.9	1999-12-03	Support of ATM end system addressing format by Number identification supplementary services		In-force
Q.2955		Stage 3 description for community of interest supplementary services using B-ISDN digital subscriber signalling system No. 2 (DSS2)		-
Q.2955.1	1997-06-05	Closed User Group (CUG)		In-force
Q.2957		Stage 3 description for additional information transfer supplementary services using B-ISDN digital subscriber signalling system No. 2 (DSS2) – Basic call		-
Q.2957.1	1995-02-07	User-to-user signalling (UUS)	Modified by ITU-T Q.2971 (10/1995)	In-force
Q.2957.1 (1995) Amd. 1	1999-12-03			In-force
Q.2959	1996-07-09	Digital subscriber signalling system No. 2 – Call priority		In-force
Q.2961		Digital subscriber signalling system No. 2 – Additional traffic parameters		-
Q.2961 B	2000-12-06	Digital subscriber signalling system No. 2 (DSS2) – Additional traffic parameters: Protocol implementation conformance statement (PICS) proforma	ITU-T Q.2961 B was previously numbered as Q.2961 bis during the approval process. It is published in English only	In-force
Q.2961 C	2000-12-06	Digital subscriber signalling system No. 2 (DSS2) – Additional traffic parameters: Test suite structure and test purposes (TSS & TP) for the user	ITU-T Q.2961 C was previously numbered as Q.2961 ter during the approval process. It is published in English only	In-force
Q.2961 D	2000-12-06	Digital subscriber signalling system No. 2 (DSS2) – Additional traffic parameters: Abstract test suite (ATS) and partial protocol implementation extra information for testing (PIXIT) proforma for the user	ITU-T Q.2961 D was previously numbered as Q.2961 quater during the approval process. It is published in English only	In-force
Q.2961 E	2000-12-06	Digital subscriber signalling system No. 2 (DSS2) – Additional traffic parameters: Test suite structure and test purposes (TSS & TP) for the network	ITU-T Q.2961 E was previously numbered as Q.2961 quinquies during the approval process. It is published in English only	In-force
Q.2961 F	2000-12-06	Digital subscriber signalling system No. 2 (DSS2) – Additional traffic parameters: Abstract test suite (ATS) and partial protocol implementation extra information for testing (PIXIT) proforma for the Network	ITU-T Q.2961 F was previously numbered as Q.2961 sexies during the approval process. It is published in English only	In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.2961.1	1995-10-17	Additional signalling capabilities to support traffic parameters for the tagging option and the sustainable cell rate parameter set		In-force
Q.2961.2	1997-06-05	Support of ATM Transfer capability in the broadband bearer capability information element		In-force
Q.2961.2 (1997) Cor. 1	1999-03-15			In-force
Q.2961.3	1997-09-12	Signalling capabilities to support traffic parameters for the available bit rate (ABR) ATM transfer capability		In-force
Q.2961.4	1997-09-12	Signalling capabilities to support traffic parameters for the ATM Block Transfer (ABT) ATM transfer capability		In-force
Q.2961.5	1999-03-15	Additional traffic parameters for cell delay variation tolerance indication		In-force
Q.2961.6	1998-05-15	Additional signalling procedures for the support of the SBR2 and SBR3 ATM transfer capabilities		In-force
Q.2962	1998-05-15	Digital subscriber signalling system No. 2 – Connection characteristics negotiation during call/connection establishment phase		In-force
Q.2962 B	2000-12-06	Digital subscriber signalling system No. 2 – Connection characteristics negotiation during call/connection establishment phase: Protocol Implementation Conformance Statement (PICS) proforma	ITU-T Q.2962 B was previously numbered as Q.2962 bis during the approval process. It is published in English only	In-force
Q.2962 C	2000-12-06	Digital subscriber signalling system No. 2 – Connection characteristics negotiation during call/connection establishment phase: Test suite structure and test purposes (TSS & TP) for the user	ITU-T Q.2962 C was previously numbered as Q.2962 ter during the approval process. It is published in English only	In-force
Q.2962 D	2000-12-06	Digital subscriber signalling system No. 2 – Connection characteristics negotiation during call/connection establishment phase: Abstract test suite (ATS) and partial protocol implementation extra information for testing (PIXIT) proforma for the user	ITU-T Q.2962 D was previously numbered as Q.2962 quater during the approval process. It is published in English only	In-force
Q.2962 E	2000-12-06	Digital subscriber signalling system No. 2 – Connection characteristics negotiation during call/connection establishment phase: Test suite structure and test purposes (TSS & TP) for the network	ITU-T Q.2962 E was previously numbered as Q.2962 quinquies during the approval process. It is published in English only	In-force
Q.2962 F	2000-12-06	Digital subscriber signalling system No. 2 – Connection characteristics negotiation during call/connection establishment phase: Abstract test suite (ATS) and partial protocol Implementation extra information for testing (PIXIT) proforma for the network	ITU-T Q.2962 F was previously numbered as Q.2962 sexies during the approval process. It is published in English only	In-force
Q.2963		Digital subscriber signalling system No. 2 – Connection modification		-
Q.2963.1	1999-12-03	Peak cell rate modification by the connection owner		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.2963.1 B	2000-12-06	Peak cell rate modification by the connection owner: Protocol implementation conformance statement (PICS) proforma	ITU-T Q.2963 B was previously numbered as Q.2963.1 bis during the approval process. It is published in English only	In-force
Q.2963.1 C	2000-12-06	Peak cell rate modification by the connection owner: Test suite structure and test purposes (TSS & TP) for the user	ITU-T Q.2963 C was previously numbered as Q.2963.1 ter during the approval process. It is published in English only	In-force
Q.2963.1 D	2000-12-06	Peak cell rate modification by the connection owner: Abstract test suite (ATS) and partial protocol implementation extra information for testing (PIXIT) proforma for the user	ITU-T Q.2963 D was previously numbered as Q.2963.1 quater during the approval process. It is published in English only	In-force
Q.2963.1 E	2000-12-06	Peak cell rate modification by the connection owner: Test suite structure and test purposes (TSS & TP) for the network	ITU-T Q.2963 E was previously numbered as Q.2963.1 quinquies during the approval process. It is published in English only	In-force
Q.2963.1 F	2000-12-06	Peak cell rate modification by the connection owner: Abstract test suite (ATS) and partial protocol implementation extra information for testing (PIXIT) proforma for the network	ITU-T Q.2963 F was previously numbered as Q.2963.1 sexies during the approval process. It is published in English only	In-force
Q.2963.2	1997-09-12	Modification procedures for sustainable cell rate parameters		In-force
Q.2963.3	1998-05-15	ATM traffic descriptor modification with negotiation by the connection owner		In-force
Q.2964.1	1996-07-09	Digital subscriber signalling system No. 2 – Basic look-ahead		In-force
Q.2965.1	1999-03-15	Digital subscriber signalling system No. 2 – Support of Quality of Service classes		In-force
Q.2965.1 (1999) Amd. 1	2000-06-15			In-force
Q.2965.1 B	2000-12-06	Digital subscriber signalling system No. 2 – Support of Quality of Service classes: Protocol Implementation Conformance Statement (PICS) proforma	ITU-T Q.2965 B was previously numbered as Q.2965.1 bis during the approval process	In-force
Q.2965.2	1999-12-03	Digital subscriber signalling system No. 2 – Signalling of individual Quality of Service parameters		In-force
Q.2965.2 B	2000-12-06	Digital subscriber signalling system No. 2 – Signalling of individual Quality of Service parameters: Protocol Implementation Conformance Statement (PICS) proforma	ITU-T Q.2965 B was previously numbered as Q.2965.2 bis during the approval process	In-force
Q.2971	1995-10-17	Digital subscriber signalling system No. 2 – User-network interface layer 3 specification for point-to-multipoint call/connection control	Modifies ITU-T Q.2931, Q.2951 and Q.2957	In-force
Q.2971 (1995) Cor. 1	1999-12-03			In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.2971 C	1999-12-03	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	ITU-T Q.2971 C was previously numbered as Q.2971 ter during the approval process	In-force
Q.2971 D	1999-12-03	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	ITU-T Q.2971 D was previously numbered as Q.2971 quater during the approval process	In-force
Q.2971 E	1999-12-03	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	ITU-T Q.2971 E was previously numbered as Q.2971 quinquies during the approval process	In-force
Q.2971 F	1999-12-03	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	ITU-T Q.2971 F was previously numbered as Q.2971 sexies during the approval process	In-force
Q.2981	1999-12-03	Broadband integrated services digital network (B-ISDN) and broadband private integrated services network (B-PISN) – Call control protocol		In-force
Q.2982	1999-12-03	Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS2) – Q.2931-based separated call control protocol		In-force
Q.2983	1999-12-03	Broadband integrated services digital network (B-ISDN) – Digital subscriber signalling system No. 2 (DSS2) – Bearer control protocol		In-force
Q.2984	1999-12-03	Broadband integrated services digital network (B-ISDN) and broadband private integrated services network (B-PISN) – Prenegotiation		In-force
Q.2991		Abstract test suite for the network integration testing for B-ISDN and B-ISDN/N-ISDN		-
Q.2991.1	1999-12-03	TSS & TP	This Recommendation includes an electronic attachment containing Test Purpose list for network integration testing	In-force
Q.2991.2	1999-12-03	ICS & IXIT and ATS	This Recommendation includes an electronic attachment containing the ATS in machine processable form and in pdf form for network integration testing	In-force
		Signalling requirements and protocols for the NGN		-

Number	Approval date	Recommendation Title	Observation	Status
		Network signalling and control functional architecture		In-force
Q.3030	2008-02-29	Signalling architecture for the NGN service control plane		In-force
Q.3040	2010-08-06	Signalling architecture for IPTV control plane		In-force
Q.3050	2012-08-13	Description of signalling protocols supporting next generation network capability sets		In-force
		Bearer control signalling		-
Y.1416/Q.3150	2007-06-13	Use of virtual trunks for ATM/MPLS client/server control plane interworking		In-force
Y.1417/Q.3151	2007-06-13	ATM and frame relay/MPLS control plane interworking: Client-server		In-force
		Signalling and control requirements and protocols to support attachment in NGN environments		In-force
Q.3201	2007-10-29	EAP-based security signalling protocol architecture for network attachment		In-force
Q.3202.1	2008-05-22	Authentication protocols based on EAP-AKA for interworking among 3GPP, WiMax, and WLAN in NGN		In-force
Q.3203	2011-08-06	Signalling requirements and architecture of network attachment control functions to support IP mobility		In-force
Q.3220	2010-06-13	Architectural framework for NACF signalling interface Recommendations		In-force
Q.3221	2008-10-14	Requirements and protocol at the interface between the service control entity and the transport location management physical entity (S-TC1 interface)		In-force
Q.3222	2010-04-30	Requirements and protocol at the interface between transport location management physical entities (Ng interface)		In-force
Q.3223	2009-06-29	Requirements and protocol for the interface between a transport location management physical entity and a policy decision physical entity (Ru Interface)		In-force
Q.3230	2012-08-13	Signalling requirements and protocol at the M13 interface between the transport location management and network information distribution physical entities		In-force
		Resource control protocols		-
Q.3300 v2	2010-03-01	Architectural framework for the Q.33xx series of Recommendations	This text was first approved and published as ITU-T Rec. Q.3320 and then renumbered as ITU-T Q.3300 on 2011-10-21 without further modification	In-force
Q.3301.1 v2	2010-06-13	Resource control protocol No. 1, version 2 – Protocol at the Rs interface between service control entities and the policy decision physical entity	This text was first approved and published as ITU-T Rec. Q.3321.1 and then renumbered as ITU-T Q.3301.1 on 2011-10-21 without further modification	In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.3302.1 v2	2010-10-14	Resource control protocol No. 2 (rcp2) – Protocol at the Rp interface between transport resource control physical entities	This Recommendation was approved and pre-published as ITU-T Q.3322.	In-force
Q.3303.0	2007-11-06	Resource control protocol No. 3 – Protocols at the Rw interface between a policy decision physical entity (PD-PE) and a policy enforcement physical entity (PE-PE): Overview		In-force
Q.3303.1 v2	2012-08-13	Resource control protocol No. 3 – Protocol at the interface between a Policy Decision Physical Entity (PD-PE) and a Policy Enforcement Physical Entity (PE-PE): COPS alternative version 2		Pre-published
Q.3303.2	2007-08-06	Resource control protocol No. 3 – Protocol at the interface between a Policy Decision Physical Entity (PD-PE) and a Policy Enforcement Physical Entity (PE-PE) (Rw interface): H.248 alternative		In-force
Q.3303.3 v2	2012-02-06	Resource control protocol No. 3 – Protocols at the Rw interface between a policy decision physical entity (PD-PE) and a policy enforcement physical entity (PE-PE): Diameter profile version 2		In-force
Q.3304.1 v2	2012-06-15	Resource control protocol No. 4 (rcp4) - Protocols at the Rc interface between a transport resource control physical entity and a transport physical entity: COPS alternative		In-force
Q.3304.2 v2	2012-08-13	Resource control protocol No. 4 (rcp4) – Protocols at the Rc interface between a transport resource control physical entity (TRC-PE) and a transport physical entity (T-PE): SNMP alternative		Pre-published
Q.3305.1 v2	2011-06-29	Resource control protocol No. 5 (rcp5) – Protocol at the interface between transport resource control physical entity and policy decision physical entity (Rt interface): Diameter-based		In-force
Q.3306.1	2009-10-29	Resource control protocol No. 6 (rcp6) - Protocol at the interface between intra-domain policy decision physical entities (PD-PE) (Rd interface)		In-force
Q.3307.1	2009-06-29	Resource control protocol No.7 - Protocol at the interface between inter-domain policy decision physical entities (Ri interface)		In-force
Q.3307.1 (2009) Amd. 1	2012-03-29			In-force
Q.3308.1	2012-03-29	Resource control protocol No. 8 - Protocol at the interface between a policy decision physical entity and a customer premises network gateway policy enforcement physical entity (Rh interface): COPS alternative		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.3309	2009-10-29	QoS coordination protocol		In-force
Q.3311	2010-10-14	Enhancement of resource and admission control protocols to use pre-congestion notification		In-force
Q.3312	2010-10-14	Use of the access node control protocol on the Rp interface		In-force
Q.3313	2012-02-22	Signalling protocols and procedures relating to flow state aware QoS control in a bounded subnetwork of a next generation network		In-force
Q.3314	2012-05-22	Requirements and protocol at the interface between the mobile location management physical entity used as a proxy and the central instance of the mobile location management physical entity (M9 interface)		In-force
		Service and session control protocols		In-force
Q.3401	2007-03-09	NGN NNI signalling profile (protocol set 1)		In-force
Q.3401 (2007) Amd. 1	2008-02-29	Extensions of NGN NNI signalling profile including video and data services		In-force
Q.3402	2008-02-29	NGN UNI signalling profile (Protocol set 1)		In-force
		Service and session control protocols – supplementary services		In-force
Q.3610	2009-05-07	Signalling requirements and protocol profiles for customized ring-back tone service		In-force
Q.3611	2009-06-29	Signalling requirements and protocol profiles for NGN customized ringing tone service		In-force
Q.3612	2011-06-29	Signalling requirements and protocol profiles for IP Centrex service		In-force
Q.3613	2012-05-22	Signalling requirements for touch screen terminal-based interactive voice response services		In-force
		Testing for next generation networks		In-force
Q.3900	2006-09-29	Methods of testing and model network architecture for NGN technical means testing as applied to public telecommunication networks		In-force
Q.3901	2008-01-23	Testing topology for networks and services based on NGN technical means		In-force
Q.3902	2008-01-23	Operational parameters to be monitored when implementing NGN technical means in public telecommunication networks		In-force
Q.3903	2008-10-14	Formalized presentation of testing results		In-force
Q.3904	2010-06-13	Testing principles for IMS model networks, and identification of relevant conformance, interoperability and functionality tests		In-force
Q.3906.1	2010-10-14	Test scenarios and catalogue for testing fixed-broadband access networks using a model network - Part I		In-force
Q.3909	2011-11-29	The framework and overview of NGN conformance and interoperability testing		In-force
Q.3910	2010-06-13	Parameters for monitoring NGN protocols		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.3911	2010-06-13	Parameters for monitoring voice services in NGN		In-force
Q.3912	2012-08-13	Set of parameters for monitoring next generation network streaming services		In-force
Q.3925	2012-03-29	Traffic flow types for testing quality of service parameters on model networks		In-force
Q.3930	2012-08-13	Performance testing of distributed systems - Concepts and terminology		Pre-published
Q.3931.1	2011-03-16	Performance benchmark for the PSTN/ISDN emulation subsystem of an IP multimedia system - Part 1: Core concepts		In-force
Q.3931.2	2011-03-16	Performance benchmark for the PSTN/ISDN emulation subsystem of an IP multimedia system - Part 2: Subsystem configurations and benchmarks		In-force
Q.3940	2012-08-13	NGN/IMS interconnection tests between network operators at the IMS 'Ic' interface and NGN NNI / SIP-I		In-force
Q.3941.1	2011-06-29	Network integration testing between SIP and ISDN/PSTN network signalling protocols – Part 1: Test suite structure and test purposes for SIP-ISDN		In-force
Q.3941.2	2011-06-29	Network integration testing between SIP and ISDN/PSTN network signalling protocols – Part 2: Abstract test suite and partial protocol implementation extra information for testing proforma specification for SIP-ISDN		In-force
Q.3941.3	2011-06-29	Network integration testing between SIP and ISDN/PSTN network signalling protocols – Part 3: Test suite structure and test purposes for SIP-SIP		In-force
Q.3941.4	2011-06-29	Network integration testing between SIP and ISDN/PSTN network signalling protocols – Part 4: Abstract test suite and partial protocol implementation extra information for testing proforma specification for SIP-SIP		In-force
Q.3945	2011-11-29	Test specifications for next generation network services on model networks - Test set 1		In-force
Q.3948	2011-06-29	Service testing framework for VoIP at the user-to-network interface of next generation networks		In-force
Q.3949	2012-08-13	Real-time multimedia service testing framework at the user-to-network interface of next generation networks		Pre-published
Q.3950	2011-11-29	Testing and model network architecture for tag-based identification systems and functions		Pre-published
		Supplements to the Series Q Recommendations		-
Q Suppl. 1	1995-10-17	Signalling System No.7 testing and planning tools	Formerly Supplement 1 to Q.780 series	In-force

Number	Approval date	Recommendation Title	Observation	Status
Q Suppl. 2	1997-09-12	Intelligent network user's guide: Supplement for IN CS-1	Formerly Supplement 1 to ITU-T Rec. Q.1219	In-force
Q Suppl. 3	1998-05-15	Number portability – Scope and capability set 1 architecture		In-force
Q Suppl. 4	1998-05-15	Number portability – Capability set 1 requirements for service provider portability (All call query and Onward routing)		In-force
Q Suppl. 5	1999-03-15	Number portability – Capability set 2 requirements for service provider portabilty (Query on release and Dropback)		In-force
Q Suppl. 7	1999-03-15	Technical Report TRQ.2001: General aspects for the development of unified signalling requirements		In-force
Q Suppl. 8	1999-03-15	Technical Report TRQ.2400: Transport control signalling requirements – Signalling requirements for AAL Type 2 link control capability set 1		In-force
Q Suppl. 9	2004-03-12	Technical Report TRQ.2000: Roadmap for the TRQ.2xxx-series Technical Reports		In-force
Q Suppl. 10	1999-12-03	Technical Report TRQ.2002: Information flow elements		In-force
Q Suppl. 11	1999-12-03	Technical Report TRQ.2010: B-ISDN signalling interworking requirements		In-force
Q Suppl. 12	1999-12-03	Technical Report TRQ.2100: Coordinated call control and bearer control signalling requirements – Root-party coordinated call and bearer control		In-force
Q Suppl. 13	1999-12-03	Technical Report TRQ.2110: Coordinated call control and bearer control signalling requirements – Leaf-party coordinated call and bearer control		In-force
Q Suppl. 14	1999-12-03	Technical Report TRQ.2120: Coordinated call control and bearer control signalling requirements – Third-party coordinated call and bearer control		In-force
Q Suppl. 15	1999-12-03	Technical Report TRQ.2130: Coordinated call control and bearer control signalling requirements for leaf initiated join service		In-force
Q Suppl. 16	1999-12-03	Technical Report TRQ.2140: Signalling requirements for the support of narrowband services via broadband transport technologies		In-force
Q Suppl. 17	1999-12-03	Technical Report TRQ.2200: Call control signalling requirements – Party call control		In-force
Q Suppl. 18	1999-12-03	Technical Report TRQ.2230: Call control signalling requirements – Join call service		In-force
Q Suppl. 19	1999-12-03	Technical Report TRQ.2300: Bearer control signalling requirements – Root-party bearer control		In-force
Q Suppl. 20	1999-12-03	Technical Report TRQ.2310: Bearer control signalling requirements – Leaf-party bearer control		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q Suppl. 21	1999-12-03	Technical Report TRQ.2320: Bearer control signalling requirements – Third-party bearer control		In-force
Q Suppl. 22	1999-12-03	Technical Report TRQ.3000: Operation of the bearer independant call control (BICC) protocol with digital subscriber signalling system No. 2 (DSS2)		In-force
Q Suppl. 23	1999-12-03	Supplement to ITU-T Q.1901 Recommendation – Technical Report TRQ.3010: Operation of the bearer independant call control (BICC) protocol with AAL type 2 signalling protocol (CS-1)		In-force
Q Suppl. 24	1999-12-03	Technical Report TRQ.3020: Operation of the bearer independant call control (BICC) protocol with broadband integrated services digital network user part (B-ISUP) for AAL Type 1 adaptation		In-force
Q Suppl. 25	1999-12-03	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		In-force
Q Suppl. 26	1999-12-03	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		In-force
Q Suppl. 27	1999-12-03	Technical Report – Overview of Signalling and Protocol Framework for an Emerging Environment (SPFEE)		In-force
Q Suppl. 28	1999-12-03	Technical Report: Signalling and protocol framework for an emerging environment (SPFEE) – Specifications for service access		In-force
Q Suppl. 29	1999-12-03	Service Modelling: Evolution to the use of object oriented techniques		In-force
Q Suppl. 30	2000-12-06	Supplement to ITU-T Recommendation Q.1701 – Roadmap to IMT-2000 Recommendations, Standards and Technical Specifications		In-force
Q Suppl. 31	2000-12-06	Technical Report TRQ.2141.0: Signalling requirements for the support of narrow-band services over broadband transport technologies – Capability set 2 (CS-2)		In-force
Q Suppl. 32	2002-11-22	Technical Report TRQ.2141.1: Signalling requirements for the support of narrowband services via broadband transport technologies – CS-2 signalling flows		In-force
Q Suppl. 33	2000-12-06	Technical Report TRQ.2401: Transport control signalling requirements – Signalling requirements for AAL type 2 link control capability set 2		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q Suppl. 34	2000-12-06	Technical Report TRQ.2410: Signalling Requirements Capability Set 1 for the support of IP Bearer Control in BICC networks		In-force
Q Suppl. 35	2000-12-06	Technical Report TRQ.2500: Signalling Requirements for the support of the call bearer control interface (CS-1)		In-force
Q Suppl. 36	2000-12-06	Technical Report TRQ.3030: Operation of the bearer independent call control (BICC) protocol (CS-2) with IP bearer control protocol (IPBCP)		In-force
Q Suppl. 37	2006-07-28	DSS1 and DSS2 messages and information element identifiers		In-force
Q Suppl. 38	2001-05-25	Technical Report TRQ.2600: BICC signalling transport requirements – Capability set 1		In-force
Q Suppl. 39	2002-03-01	Technical Report TRQ.2700: Requirements for signalling in access networks that support BICC		In-force
Q Suppl. 40	2002-11-22	Technical Report: Reference document on API/object interface between network control and application layer		In-force
Q Suppl. 41	2002-11-22	Technical Report TRQ.2003: Roadmap to the BICC protocol Recommendations, BICC interworking Recommendations, and BICC requirement Supplements		In-force
Q Suppl. 42	2003-09-12	Technical Report TRQ.2402: Transport control signalling requirements – Signalling requirements for AAL type 2 link control Capability Set 3		In-force
Q Suppl. 43	2003-09-12	Technical Report TRQ.2415: Transport control signalling requirements – Signalling requirements for IP connection control in radio access networks Capability Set 1		In-force
Q Suppl. 44	2003-09-12	Technical Report TRQ.2800: Transport control signalling requirements – Signalling requirements for AAL type 2 to IP interworking Capability Set 1		In-force
Q Suppl. 45	2003-09-12	Technical Report TRQ.2815: Requirements for interworking BICC/ISUP network with originating/destination networks based on Session Initiation Protocol and Session Description Protocol		In-force
Q Suppl. 46	2003-09-12	Technical Report TRQ.2830: ATM-MPLS network interworking signalling requirements		In-force
Q Suppl. 47	2003-11-21	Emergency services for IMT-2000 networks – Requirements for harmonization and convergence		In-force
Q Suppl. 48	2004-03-12	Guideline document for specifying API/object interface between network control and application layer		In-force
Q Suppl. 49	2004-03-12	Technical Report TRQ.2840: Signalling requirements to support IP telephony		In-force
Q Suppl. 50	2004-03-12	Technical Report TRQ.2145: Requirements for a Narrow-band Signalling Syntax (NSS)		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q Suppl. 51	2004-12-10	Signalling requirements for IP-QoS		In-force
Q Suppl. 52	2004-12-16	NNI mobility management requirements for systems beyond IMT-2000		In-force
Q Suppl. 53	2005-09-09	Signalling requirements to support the International Emergency Preference Scheme (IEPS)		In-force
Q Suppl. 54	2007-04-27	Signalling requirements at the interface between SUP-FE and I/S-CSC-FE		In-force
Q Suppl. 55	2007-04-27	Signalling requirements at the interface between AS-FE and S-CSC-FE		In-force
Q Suppl. 56	2007-04-27	Organization of NGN service user data		In-force
Q Suppl. 57	2008-01-23	Signalling requirements to support the emergency telecommunications service (ETS) in IP networks		In-force
Q Suppl. 58	2008-01-23	Organization of NGN transport user data		In-force
Q Suppl. 59	2008-01-23	Signalling flows and parameter mapping for resource control		In-force
Q Suppl. 60	2010-01-28	Supplement to Recommendations ITU-T Q.3610 and ITU-T Q.3611 - Service flows for customized multimedia ring-back tone (CRBT) and customized multimedia ringing tone (CRT) services		In-force
Q Suppl. 61	2010-04-30	Evaluation of signalling protocols to support ITU-T Y.2171 admission control priority levels		In-force
Q Suppl. 62	2011-01-28	Overview of the work of standards development organizations and other organizations on emergency telecommunications service		In-force
Q-500 series Suppl. 1	1988-11-25	Definition of relative levels, transmission loss and attenuation/frequency distortion for digital exchanges with complex impedances at Z interfaces		-
Q-500 series Suppl. 2	1988-11-25	Impedance strategy for telephone instruments and digital local exchanges in the British Telecom Network		-

Number	Approval date	Recommendation Title	Observation	Status
Series R : Telegraph transmission				
		Telegraph distortion		In-force
R.2	1988-11-25	Element error rate		In-force
R.4	1988-11-25	Methods for the separate measurements of the degrees of various types of telegraph distortion		In-force
R.5	1993-03-12	Observation conditions recommended for routine distortion measurements on international telegraph circuits		In-force
R.9	1993-03-12	How the laws governing distribution of distortion should be arrived at		In-force
R.11	1993-03-12	Calculation of the degree of distortion of a telegraph circuit in terms of the degrees of distortion of the component links		In-force
		Voice-frequency telegraphy		In-force
R.20	1988-11-25	Telegraph modem for subscriber lines		In-force
R.21	1996-08-16	9600 bit/s modem standardized for use in the telegraph TDM system		In-force
R.22	1996-08-16	Data over voice 19 200 bit/s modem standardized for use on telephone network subscriber lines		In-force
R.30	1988-11-25	Transmission characteristic for international VFT links		In-force
R.31	1988-11-25	Standardization of AMVFT systems for a modulation rate of 50 bauds		In-force
R.35	1988-11-25	Standardization of FMVFT systems for a modulation rate of 50 bauds		In-force
R.35 bis	1988-11-25	50-baud wideband VFT systems		In-force
R.36	1988-11-25	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		In-force
R.37	1988-11-25	Standardization of FMVFT systems for a modulation rate of 100 bauds		In-force
R.38 A	1988-11-25	Standardization of FMVFT system for a modulation rate of 200 bauds with channels spaced at 480 Hz		In-force
R.38 B	1988-11-25	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		In-force
R.39	1988-11-25	Voice-frequency telegraphy on radio circuits		In-force
		Special cases of alternating current telegraphy		-
R.40	1988-11-25	Coexistence in the same cable of telephony and super-telephone telegraphy		In-force
R.43	1988-11-25	Simultaneous communication by telephone and telegraph on a telephone-type circuit	H.32 was an alias name of ITU-T R.43. Only this alias name was suppressed. ITU-T R.43 remains valid	In-force

Number	Approval date	Recommendation Title	Observation	Status
R.44	1988-11-25	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		In-force
R.49	1988-11-25	Interband telegraphy over open-wire 3-channel carrier systems		In-force
		Transmission quality		-
R.50	1988-11-25	Tolerable limits for the degree of isochronous distortion of code-independent 50-baud telegraph circuits		In-force
R.51	1988-11-25	Standardized text for distortion testing of the code-independent elements of a complete circuit		In-force
R.51 bis	1988-11-25	Standardized text for testing the elements of a complete circuit		In-force
R.52	1988-11-25	Standardization of international texts for the measurement of the margin of start-stop equipment	Incorporates former S.33 (1984)	In-force
R.53	1988-11-25	Permissible limits for the degree of distortion on an international 50-baud/120-Hz VFT channel (frequency and amplitude modulation)		In-force
R.54	1993-03-12	Conventional degree of distortion tolerable for standardized start-stop 50-baud systems		In-force
R.55	1993-03-12	Conventional degree of distortion		In-force
R.56	1993-03-12	Telegraph distortion limits to be quoted in Recommendations for equipment and transmission plans		In-force
R.57	1988-11-25	Standard limits of transmission quality for planning code-independent international point-to-point telegraph communications and switched networks using 50-baud start-stop equipment		In-force
R.58	1988-11-25	Standard limits of transmission quality for the gentex and telex networks		In-force
R.58 bis	1988-11-25	Limits on signal transfer delay for telegraph, telex and gentex networks		In-force
R.59	1988-11-25	Interface requirements for 50-baud start-stop telegraph transmission in the maritime mobile satellite service		In-force
		Correction of signals		In-force
R.60	1988-11-25	Conditions to be fulfilled by regenerative repeaters for start-stop signals of International Telegraph Alphabet No. 2		In-force
R.62	1988-11-25	Siting of regenerative repeaters in international telex circuits		In-force
		Telegraph maintenance		-
R.70	1988-11-25	Designation of international telegraph circuits		In-force
R.70 bis	1988-11-25	Numbering of international VFT channels		In-force
R.71	1988-11-25	Organization of the maintenance of international telegraph circuits		In-force

Number	Approval date	Recommendation Title	Observation	Status
R.72	1988-11-25	Periodicity of maintenance measurements to be carried out on the channels of international VFT systems		In-force
R.73	1988-11-25	Maintenance measurements to be carried out on VFT systems		In-force
R.74	1988-11-25	Choice of type of telegraph distortion-measuring equipment		In-force
R.75	1988-11-25	Maintenance measurements on code-independent international sections of international telegraph circuits		In-force
R.75 bis	1988-11-25	Maintenance measurements of character error rate on international sections of international telegraph circuits		In-force
R.76	1988-11-25	Reserve channels for maintenance measurements on channels of international VFT systems		In-force
R.77	1988-11-25	Use of bearer circuits for voice-frequency telegraphy		In-force
R.78	1988-11-25	Pilot channel for AMVFT systems		In-force
R.79	1988-11-25	Automatic tests of transmission quality on telegraph circuits between switching centres	Incorporates R.79 bis (1984)	In-force
R.80	1988-11-25	Causes of disturbances to signals in VFT channels and their effect on telegraph distortion		In-force
R.81	1988-11-25	Maximum acceptable limit for the duration of interruption of telegraph channels arising from failure of the normal power supplies		In-force
R.82	1988-11-25	Appearance of false calling and clearing signals in circuits operated by switched teleprinter services		In-force
R.83	1988-11-25	Changes of level and interruptions in VFT channels		In-force
R.90	1988-11-25	Organization for locating and clearing faults in international telegraph switched networks		In-force
R.91	1988-11-25	General maintenance aspects for the maritime satellite telex service		In-force
		Time-division multiplexing		In-force
R.100	1993-03-12	Transmission characteristics of international TDM links		In-force
R.101	1993-03-12	Code and speed dependent TDM system for anisochronous telegraph and data transmission using bit interleaving		In-force
R.102	1993-03-12	4800 bit/s code and speed dependent and hybrid TDM systems for anisochronous telegraph and data transmission using bit interleaving		In-force
R.103	1988-11-25	Code and speed-dependent TDM 600 bit/s system for use in point-to-point or branch-line muldex configurations		In-force

Number	Approval date	Recommendation Title	Observation	Status
R.105	1993-03-12	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		In-force
R.106	1995-08-29	Muldex unit for telegraph and low speed data transmission using TDM bit interleaving with an aggregate bit rate higher than 4800 bit/s		In-force
R.111	1993-03-12	Code and speed independent TDM system for anisochronous telegraph and data transmission		In-force
R.112	1993-03-12	TDM hybrid system for anisochronous telegraph and data transmission using bit interleaving		In-force
R.113	1993-03-12	Combined muldex for telegraphy and synchronous data transmission		In-force
R.114	1993-03-12	Numbering of international TDM channels		In-force
R.115	1993-03-12	Maintenance loops for TDM-systems		In-force
R.116	1988-11-25	Maintenance tests to be carried out on international TDM systems		In-force
R.117	1993-03-12	End-to-end error performance for telegraph, telex and gentex connections involving regenerative equipment		In-force
R.118	1993-03-12	Performance and availability monitoring in regenerative TDM		In-force
		Transmission quality above 50 bauds		In-force
R.120	1988-11-25	Tolerable limits for the degree of isochronous distortion of code-independent telegraph circuits operating at modulation rates of 75, 100 and 200 bauds		In-force
R.121	1988-11-25	Standard limits of transmission quality for start-stop user classes of service 1 and 2 on anisochronous data networks		In-force
R.122	1988-11-25	Summary of transmission plans for rates up to 300 bauds		In-force
		Definitions		In-force
R.140	1988-11-25	Definitions of essential technical terms in the field of telegraph transmission		In-force
		Availability and reliability of international telegraph circuits		In-force
R.150	1988-11-25	Automatic protection switching of dual diversity bearers		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series S : Telegraph services terminal equipment				
		Start-stop terminals		-
S.1	1993-03-12	International Telegraph Alphabet No. 2		In-force
S.2	1988-11-25	Coding scheme using International Telegraph Alphabet No. 2 (ITA2) to allow the transmission of capital and small letters		In-force
S.3	1988-11-25	Transmission characteristics of the local end with its termination (ITA2)		In-force
S.4	1993-03-12	Special use of certain characters of the International Telegraph Alphabet No. 2		In-force
S.5	1988-11-25	Standardization of page-printing start-stop equipment and cooperation between page-printing and tape-printing start-stop equipment (ITA2)		In-force
S.6	1988-11-25	Characteristics of answerback units (ITA2)		In-force
S.7	1988-11-25	Control of teleprinter motors		In-force
S.8	1993-03-12	Intercontinental standardization of the modulation rate of start-stop apparatus and of the use of combination No. 4 in figure-shift		In-force
S.9	1988-11-25	Switching equipment of start-stop apparatus		In-force
S.10	1988-11-25	Transmission at reduced character transfer rate over a standardized 50-baud telegraph channel		In-force
S.11	1988-11-25	Use of start-stop reperforating equipment for perforated tape retransmission		In-force
S.12	1988-11-25	Conditions that must be satisfied by synchronous systems operating in connection with standard 50-baud teleprinter circuits		In-force
S.13	1988-11-25	Use on radio circuits of 7-unit synchronous systems giving error correction by automatic repetition	Corresponds to CCIR Rec. 342-2	In-force
S.14	1988-11-25	Suppression of unwanted reception in radiotelegraph multi-destination teleprinter systems		In-force
S.15	1988-11-25	Use of the telex network for data transmission at 50 bauds		In-force
S.16	1993-03-12	Connection to the telex network of an automatic terminal using a V.24 DCE/DTE interface		In-force
S.17	1988-11-25	Answer-back unit simulators		In-force
S.18	1988-11-25	Conversion between International Telegraph Alphabet No. 2 and International Alphabet No. 5		In-force
S.19	1988-11-25	Calling and answering in the telex network with automatic terminal equipment		In-force
S.20	1993-03-12	Automatic clearing procedure for a telex terminal		In-force
S.21	1993-03-12	Use of display screens in telex machines		In-force

Number	Approval date	Recommendation Title	Observation	Status
S.22	1993-03-12	"Conversation impossible" and or pre-recorded message in response to J/BELL signals from a telex terminal		In-force
S.23	1993-03-12	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		In-force
S.30	1988-11-25	Standardization of basic model page-printing machine using International Alphabet No. 5		In-force
S.31	1988-11-25	Transmission characteristics for start-stop data terminal equipment using International Alphabet No. 5		In-force
S.32	1988-11-25	Answer-back units for 200- and 300-baud start-stop machines in accordance with Recommendation S.30		In-force
S.33	1993-03-12	Alphabets and presentation characteristics for the intex service		In-force
S.34	1993-03-12	Intex terminals – Requirements to effect interworking with the international telex service		In-force
S.35	1993-03-12	Answerback coding for the Intex service		In-force
S.36	1996-07-19	Intex and similar services – Terminal requirements to effect interworking between terminals operating at different speeds		In-force
		Definitions		-
S.140	1988-11-25	Definitions of essential technical terms relating to apparatus for alphabetic telegraphy		In-force
		Supplements to the Series S Recommendations		-
S Suppl. 1	1988-11-25	Minimal specifications for the bilingual (arabic/latin) teleprinter		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series T : Terminals for telematic services				
		Facsimile – Framework		-
T.0	1996-07-03	Classification of facsimile terminals for document transmission over the public networks		In-force
T.1	1988-11-25	Standardization of phototelegraph apparatus		In-force
T.4	2003-07-14	Standardization of Group 3 facsimile terminals for document transmission		In-force
T.5	1998-02-06	Test methodology for Group 3 facsimile processing equipment in the Public Switched Telephone Network	This text was first approved and published as ITU-T Rec. G.511, and then renumbered as T.5 on 2002-02-15 without further modification	In-force
T.6	1988-11-25	Facsimile coding schemes and coding control functions for Group 4 facsimile apparatus		In-force
T.10	1988-11-25	Document facsimile transmissions on leased telephone-type circuits	H.43 was an alias name of ITU-T T.10. Only this alias name was suppressed. ITU-T T.10 remains valid	In-force
T.10 bis	1988-11-25	Document facsimile transmissions in the general switched telephone network		In-force
		Still-image compression – Test charts		-
T.22	1993-03-12	Standardized test charts for document facsimile transmissions	Figures reproducing test charts in T.22 Annex A are not suited for measurements. Original test charts are available from ITU sales department	In-force
T.23	1994-04-07	Standardized colour test chart for document facsimile transmissions	Figure reproducing test charts in T.23 Annex A is not suited for measurements. Original test chart is available from ITU sales department	In-force
T.24	1998-06-18	Standardized digitized image set	This Recommendation includes 2 CD-ROMs containing the digitized image set. Due to the data volume, this Recommendation is not downloadable from ITU website and should be provided from Sales department (Email: sales@itu.int). Only T.24 text is downloadable	In-force
T.24 (1998) Amd. 1	2000-02-10			-
		Facsimile – Group 3 protocols		-
T.30	2005-09-13	Procedures for document facsimile transmission in the general switched telephone network		In-force

Number	Approval date	Recommendation Title	Observation	Status
T.30 (2005) Amd. 1	2007-01-13	Extension of silence period during fallback from V.34		In-force
T.31	1995-08-11	Asynchronous facsimile DCE control – Service Class 1		In-force
T.31 (1995) Amd. 1	1996-07-03	Annex B: Procedure for Service Class 1 support of V.34 modems		In-force
T.32	1995-08-11	Asynchronous facsimile DCE control – Service Class 2		In-force
T.32 (1995) Amd. 1	1996-07-03			In-force
T.33	1996-07-03	Facsimile routing utilizing the subaddress		In-force
T.35	2000-02-10	Procedure for the allocation of ITU-T defined codes for non-standard facilities		In-force
T.36	1997-07-02	Security capabilities for use with Group 3 facsimile terminals		In-force
T.36 (1997) Amd. 1	1999-04-01			In-force
T.37	1998-06-18	Procedures for the transfer of facsimile data via store-and-forward on the Internet		In-force
T.37 (1998) Amd. 1	1999-09-24	Full Mode		In-force
T.37 (1998) Amd. 2	2001-03-01	Replacement of reference RFC 2531 by RFC 2879		In-force
T.37 (1998) Amd. 3	2002-11-29	Support of image/tiff and image/tiff-fx MIME content-types		In-force
T.38	2010-09-13	Procedures for real-time Group 3 facsimile communication over IP networks		In-force
T.39	1997-10-16	Application profiles for simultaneous voice and facsimile terminals		In-force
		Colour representation		In-force
T.42	2003-07-14	Continuous-tone colour representation method for facsimile		In-force
T.42 (2003) Cor. 1	2004-03-15			In-force
T.43	1997-07-02	Colour and gray-scale image representations using lossless coding scheme for facsimile		In-force
T.43 (1997) Amd. 1	2000-02-10	Accommodation of new and future Resolutions		In-force
T.44	2005-01-08	Mixed Raster Content (MRC)	This text includes the typo correction introduced by Erratum 1	In-force
T.44 (2005) Erratum 1	2005-06-09		Applies to English version only	In-force
T.45	2000-02-10	Run-length Colour Encoding		In-force
		Character coding		-
T.50	1992-09-18	International Reference Alphabet (IRA) (Formerly International Alphabet No. 5 or IA5) – Information technology – 7-bit coded character set for information interchange		In-force
T.51	1992-09-18	Latin based coded character sets for telematic services		In-force

Number	Approval date	Recommendation Title	Observation	Status
T.51 (1992) Amd. 1	1995-08-11			In-force
T.52	1993-03-12	Non-latin coded character sets for telematic services		In-force
T.52 (1993) Amd. 1	1996-10-18			In-force
T.53	1994-04-07	Character coded control functions for telematic services		In-force
T.55	2008-06-13	Use of the universal multiple-octet coded character set (UCS)		In-force
		Facsimile – Group 4 protocols		In-force
T.62	1993-03-12	Control procedures for teletex and Group 4 facsimile services		In-force
T.62 bis	1993-03-12	Control procedures for teletex and G4 facsimile services based on Recommendations X.215 and X.225		In-force
T.66	2002-03-29	Facsimile code points for use with Recommendations V.8 and V.8 bis		In-force
		Telematic services – Framework		-
T.70	1993-03-12	Network-independent basic transport service for the telematic services		In-force
T.71	1988-11-25	Link access protocol balanced (LAPB) extended for half-duplex physical level facility		In-force
		Still-image compression – JPEG-1, Bi-level and JBIG		In-force
T.80	1992-09-18	Common components for image compression and communication – Basic principles		In-force
T.81	1992-09-18	Information technology – Digital compression and coding of continuous-tone still images – Requirements and guidelines	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment	In-force
T.81 (1992) Cor. 1	2004-01-30	Patent information update		In-force
T.82	1993-03-12	Information technology – Coded representation of picture and audio information – Progressive bi-level image compression		In-force
T.82 (1993) Technical Cor. 1	1995-03-14			In-force
T.82 (1993) Technical Cor. 2	2001-03-01			In-force

Number	Approval date	Recommendation Title	Observation	Status
T.83	1994-11-11	Information technology – Digital compression and coding of continuous-tone still images: Compliance testing	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment. This Recommendation includes 3 diskettes containing compliance test data for the generic enc	In-force
T.84	1996-07-03	Information technology – Digital compression and coding of continuous-tone still images: Extensions		In-force
T.84 (1996) Amd. 1	1999-04-01	Provisions to allow registration of new compression types and versions in the SPIFF header		In-force
T.85	1995-08-11	Application profile for Recommendation T.82 – Progressive bi-level image compression (JBIG coding scheme) for facsimile apparatus		In-force
T.85 (1995) Amd. 1	1996-10-18			In-force
T.85 (1995) Cor. 1	1997-02-13			In-force
T.85 (1995) Amd. 2	1997-10-16			In-force
T.86	1998-06-18	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)		In-force
T.86 (1998) Amd. 1	2012-06-29	Application-specific marker list		Pre-published
T.87	1998-06-18	Information technology – Lossless and near-lossless compression of continuous-tone still images – Baseline	This Recommendation includes one diskette containing the JPEG-LS Lossless and near-lossless image compression reference implementation and a conformance testing image set	In-force
T.88	2000-02-10	Information technology – Lossy/lossless coding of bi-level images		In-force
T.88 (2000) Amd. 1	2003-06-29	Encoder	This amendment includes the modifications introduced by erratum 1 on 2004-12-16	In-force
T.88 (2000) Amd. 1 Erratum 1	2004-12-16			In-force
T.88 (2000) Amd. 2	2003-06-29	Extension of adaptive templates for halftone coding		In-force
T.88 (2000) Amd. 3	2011-05-14	Extension to colour coding	This Amendment was republished to indicate 2012 as year of publication in ISO.	In-force

Number	Approval date	Recommendation Title	Observation	Status
T.89	2001-09-05	Application profiles for Recommendation T.88 – Lossy/lossless coding of bi-level images (JBIG2) for facsimile		In-force
		Telematic services – ISDN Terminals and protocols		In-force
T.90	1992-02-25	Characteristics and protocols for terminals for telematic services in ISDN		In-force
T.90 (1992) Amd. 1	1994-11-11			In-force
T.90 (1992) Amd. 2	1996-07-03			In-force
T.90 (1992) Amd. 3	1998-06-18	Cause value for a G4 fax fallback		In-force
		Videotext – Framework		-
T.100	1988-11-25	International information exchange for interactive Videotex		In-force
T.101	1994-11-11	International interworking for Videotex services		In-force
T.102	1993-03-12	Syntax-based Videotex end-to-end protocols for the circuit mode ISDN		In-force
T.103	1993-03-12	Syntax-based Videotex end-to-end protocols for the packet mode ISDN		In-force
T.104	1993-03-12	Packet mode access for syntax-based Videotex via PSTN		In-force
T.105	1994-11-11	Syntax-based Videotex application layer protocol		In-force
T.106	1993-03-12	Framework of videotex terminal protocols		In-force
T.107	1995-08-11	Enhanced man machine interface for videotex and other retrieval services (VEMMI)		In-force
		Data protocols for multimedia conferencing		-
T.120	2007-01-13	Data protocols for multimedia conferencing		In-force
T.121	1996-07-03	Generic application template		In-force
T.122	1998-02-06	Multipoint communication service – Service definition		In-force
T.123	2007-01-13	Network-specific data protocol stacks for multimedia conferencing		In-force
T.124	2007-01-13	Generic Conference Control		In-force
T.125	1998-02-06	Multipoint communication service protocol specification		In-force
T.126	2007-08-29	Multipoint still image and annotation protocol		In-force
T.127	2007-08-29	Multipoint binary file transfer protocol		In-force
T.128	2008-06-13	Multipoint application sharing		In-force
T.134	1998-02-06	Text chat application entity		In-force
T.135	2007-08-29	User-to-reservation system transactions within T.120 conferences		In-force
T.137	2000-02-17	Virtual meeting room management for multimedia conferencing audio-visual control		In-force
T.140	1998-02-06	Protocol for multimedia application text conversation		In-force

Number	Approval date	Recommendation Title	Observation	Status
T.140 (1998) Add. 1	2000-02-17			In-force
		Telewriting		In-force
T.150	1988-11-25	Telewriting terminal equipment		In-force
		Multimedia and hypermedia framework		In-force
T.170	1998-02-06	Framework of the T.170-Series of Recommendations		In-force
T.171	1996-10-18	Protocols for interactive audiovisual services: Coded representation of multimedia and hypermedia objects		In-force
T.172	1998-02-06	MHEG-5 – Support for base-level interactive applications		In-force
T.172 (1998) Cor. 1	2008-06-13			In-force
T.173	1997-07-11	MHEG-3 script interchange representation		In-force
T.174	1996-10-18	Application programming interface (API) for MHEG-1		In-force
T.175	1998-02-06	Application programming interface (API) for MHEG-5		In-force
T.176	1998-02-06	Application programming interface (API) for digital storage media command and control (DSM-CC)		In-force
T.180	1998-06-18	Homogeneous access mechanism to communication services		In-force
		Cooperative document handling		-
T.190	1995-08-11	Cooperative Document Handling (CDH) – Framework and basic services		In-force
T.191	1996-07-03	Cooperative document handling (CDH) – Joint synchronous editing (point-to-point)		In-force
T.192	1998-06-18	Cooperative document handling – Complex services: Joint synchronous editing and joint document presentation/viewing		In-force
		Telematic services – Interworking		In-force
T.300	1988-11-25	General principles of telematic interworking		In-force
T.330	1988-11-25	Telematic access to interpersonal messaging system		In-force
T.351	1988-11-25	Imaging process of character information on facsimile apparatus		In-force
T.390	1988-11-25	Teletex requirements for interworking with the telex service		In-force
		Open document architecture		-
T.411	1993-03-12	Information technology – Open Document Architecture (ODA) and interchange format: Introduction and general principles		In-force
T.411 (1993) Technical Cor. 1	1997-10-16			In-force

Number	Approval date	Recommendation Title	Observation	Status
T.412	1993-03-12	Information technology – Open Document Architecture (ODA) and interchange format: Document structures		In-force
T.412 (1993) Technical Cor. 1	1997-10-16			In-force
T.412 (1993) Technical Cor. 2	1997-10-16			In-force
T.413	1994-11-11	Information technology – Open Document Architecture (ODA) and interchange format: Abstract interface for the manipulation of ODA documents		In-force
T.414	1993-03-12	Information technology – Open Document Architecture (ODA) and interchange format: Document profile		In-force
T.414 (1993) Technical Cor. 1	1997-10-16			In-force
T.414 (1993) Technical Cor. 2	1997-10-16			In-force
T.415	1993-03-12	Information technology – Open Document Architecture (ODA) and interchange format: Open document interchange format (ODIF)		In-force
T.415 (1993) Technical Cor. 1	1997-10-16			In-force
T.415 (1993) Technical Cor. 2	1997-10-16			In-force
T.416	1993-03-12	Information technology – Open Document Architecture (ODA) and interchange format: Character content architectures		In-force
T.416 (1993) Technical Cor. 1	1997-10-16			In-force
T.417	1993-03-12	Information technology – Open Document Architecture (ODA) and interchange format: Raster graphics content architectures		In-force
T.417 (1993) Technical Cor. 1	1997-10-16			In-force
T.417 (1993) Amd. 1	1997-10-16			In-force

Number	Approval date	Recommendation Title	Observation	Status
T.417 (1993) Amd. 2	2000-02-10			In-force
T.418	1993-03-12	Information technology – Open Document Architecture (ODA) and interchange format: Geometric graphics content architecture		In-force
T.419	1995-08-11	Information technology – Open Document Architecture (ODA) and interchange format: Audio content architectures		In-force
T.421	1994-11-11	Information technology – Open Document Architecture (ODA) and interchange format: Tabular structures and tabular layout		In-force
T.422	1995-08-11	Information technology – Open Document Architecture (ODA) and interchange format: Identification of document fragments		In-force
T.424	1996-07-03	Information technology – Open Document Architecture (ODA) and interchange format: Temporal relationships and non-linear structures		In-force
		Document transfer and manipulation		In-force
T.431	1992-09-18	Document Transfer And Manipulation (DTAM) – Services and protocols – Introduction and general principles		In-force
T.432	1992-09-18	Document Transfer And Manipulation (DTAM) – Services and protocols – Service definition		In-force
T.432 (1992) Amd. 1	1995-08-11	Revisions of T.432 to support G4 colour and file transfer		In-force
T.433	1992-09-18	Document Transfer And Manipulation (DTAM) – Services and protocols – Protocol specification		In-force
T.433 (1992) Amd. 1	1995-08-11	Revisions of T.433 to support G4 colour and file transfer		In-force
T.434	1999-04-01	Binary file transfer format for the telematic services		In-force
T.435	1995-08-11	Document Transfer And Manipulation (DTAM) – Services and protocols – Abstract service definition and procedures for confirmed document manipulation		In-force
T.436	1995-08-11	Document Transfer and Manipulation (DTAM) – Services and protocols – Protocol specifications for confirmed document manipulation		In-force
T.441	1988-11-25	Document Transfer And Manipulation (DTAM) – Operational structure		In-force
		Document application profile		-
T.501	1993-03-12	Document application profile MM for the interchange of formatted mixed mode documents		In-force

Number	Approval date	Recommendation Title	Observation	Status
T.502	1994-11-11	Document application profile PM-11 for the interchange of simple structure, character content documents in processable and formatted forms		In-force
T.503	2000-02-10	Document application profile for the interchange of Group 4 facsimile documents		In-force
T.504	1993-03-12	Document application profile for videotex interworking		In-force
T.505	1994-11-11	Document application profile PM-26 for the interchange of enhanced structure, mixed content documents in processable and formatted forms		In-force
T.506	1993-08-31	Document application profile PM-36 for the interchange of extended document structures and mixed content documents in processable and formatted forms		In-force
		Communication application profile		-
T.510	1993-03-12	General overview of the T.510-Series Recommendations		In-force
T.521	1994-11-11	Communication application profile BT0 for document bulk transfer based on the session service		In-force
T.521 (1994) Amd. 1	1995-08-11			In-force
T.522	1992-09-18	Communication application profile BT1 for document bulk transfer		In-force
T.523	1993-03-12	Communication application profile DM-1 for videotex interworking		In-force
T.541	1993-03-12	Operational application profile for videotex interworking		In-force
		Telematic services – Equipment characteristics		In-force
T.561	1988-11-25	Terminal characteristics for mixed mode of operation MM		In-force
T.562	1988-11-25	Terminal characteristics for teletex processable mode PM.1		In-force
T.563	1996-10-18	Terminal characteristics for Group 4 facsimile apparatus		In-force
T.563 (1996) Amd. 1	1997-07-02			In-force
T.563 (1996) Amd. 2	1997-10-16	Annex C – T.30 frames for G4 facsimile		In-force
T.563 (1996) Cor. 1	1998-06-18			In-force
T.563 (1996) Amd. 3	1999-04-01			In-force
T.564	1993-03-12	Gateway characteristics for videotex interworking		In-force

Number	Approval date	Recommendation Title	Observation	Status
T.571	1992-09-18	Terminal characteristics for the telematic file transfer within the teletex service		In-force
T.611	1994-11-11	Programming Communication Interface (PCI) APPLI/COM for facsimile Group 3, facsimile Group 4, teletex, telex, E-mail and file transfer services		In-force
		Still-image compression – JPEG 2000		-
T.800	2002-08-29	Information technology – JPEG 2000 image coding system: Core coding system	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment. ISO/IEC 15444-1 Amendments 1 and 2, plus Technical Corrigenda 1, 2, 3, and 4 are already int	In-force
T.800 (2002) Amd. 1	2005-09-13	Profiles for digital cinema applications	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment	In-force
T.800 (2002) Cor. 1	2007-01-13	Default image dimensions for JP2 files		In-force
T.800 (2002) Cor. 2	2007-08-29	Clarification on determination of maximum file size		In-force
T.800 (2002) Amd. 2	2009-03-16	Extended profiles for cinema and video production and archival applications	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment	In-force
T.800 (2002) Amd. 3	2010-06-22	Profiles for broadcast applications	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment	In-force
T.800 (2002) Amd. 4	2011-05-14	Guidelines for digital cinema applications	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment	In-force
T.800 (2002) Amd. 5	2012-01-13	Enhancements for digital cinema and archive profiles (additional frame rates)	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment	Pre-published

Number	Approval date	Recommendation Title	Observation	Status
T.801	2002-08-29	Information technology – JPEG 2000 image coding system: Extensions	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment. ISO/IEC 15444-2 Amendment 1 and Technical Corrigenda 1 and 2 are already integrated in T.801	In-force
T.801 (2002) Cor. 3	2005-01-08			In-force
T.801 (2002) Amd. 2	2005-05-14	Extended capabilities marker segment	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment	In-force
T.801 (2002) Cor. 4	2006-05-29			In-force
T.801 (2002) Amd. 4	2012-06-29	Block coder extension	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment.	-
T.802	2005-01-08	Information technology – JPEG 2000 image coding system: Motion JPEG 2000	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment. This Recommendation includes one DVD containing test vectors. This DVD can be purchased from	In-force
T.802 (2005) Amd.1	2010-04-22	Additional profiles for archiving applications	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment	In-force
T.803	2002-11-29	Information technology – JPEG 2000 image coding system: Conformance testing	This Recommendation includes the JPEG 2000 compliance test images	In-force
T.803 (2002) Cor. 1	2009-03-16	Correction to clause G.4.4		In-force

Number	Approval date	Recommendation Title	Observation	Status
T.804	2002-08-29	Information technology – JPEG 2000 image coding system: Reference software	This Recommendation contains the source code distribution for JasPer, the JJ2000 Java implementation of JPEG 2000 image coding standard	In-force
T.805	2012-01-13	Information technology – JPEG 2000 image coding system: Compound image file format	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment.	Pre-published
T.807	2006-05-29	Information technology – JPEG 2000 image coding system: Secure JPEG 2000		In-force
T.807 (2006) Amd. 1	2008-03-15	File format security		In-force
T.808	2005-01-08	Information technology – JPEG 2000 image coding system: Interactivity tools, APIs and protocols		In-force
T.808 (2005) Amd. 1	2006-05-29	APIs, metadata and editing		In-force
T.808 (2005) Cor. 1	2007-01-13			In-force
T.808 (2005) Amd. 2	2007-08-29	JPIP extensions		In-force
T.808 (2005) Cor. 2	2008-06-13	Clarifications to the metadata transfers between server and client		In-force
T.808 (2005) Amd. 3	2008-06-13	JPIP extensions to 3D data		In-force
T.808 (2005) Amd. 4	2010-05-22	JPIP server and client profiles	This amendment includes 1 DVD containing test data and scripts for JPIP testing. Due to the large data volume, this DVD can be purchased from ITU Sales (Email: sales@itu.int); alternatively, its contents can be downloaded from the ITU-T test signal databa	In-force
T.808 (2005) Cor. 3	2011-05-14	Corrections to clause J.4.3.4		In-force
T.809	2011-05-14	Information technology – JPEG 2000 image coding system: Extensions for three-dimensional data	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment.	In-force

Number	Approval date	Recommendation Title	Observation	Status
T.810	2006-05-29	Information technology – JPEG 2000 image coding system: Wireless		In-force
T.810 (2006) Amd. 1	2012-01-13	IP-based wireless networks		In-force
T.812	2007-08-29	Information technology – JPEG 2000 image coding system: An entry level JPEG 2000 encoder		In-force
T.813	2012-06-29	Information technology – JPEG 2000 image coding system: XML structural representation and reference		Pre-published
		Still-image compression | JPEG XR		-
T.832	2012-01-13	Information technology - JPEG XR image coding system - Image coding specification		In-force
T.833	2010-09-13	Information technology – JPEG XR image coding system – Motion JPEG XR		In-force
T.834	2010-01-13	Information technology – JPEG XR image coding system – Conformance testing	This Recommendation contains the conformance test suite. Due to the data volume, this is downloadable free of charge from ITU-T test signals database at: "http://www.itu.int/net/itu-t/sigdb/speimage/ImageForm-s.aspx?val=10100834".	In-force
T.835	2012-01-13	Information technology – JPEG XR image coding system – Reference software	This edition integrates the modifications introduced by Corrigendum 1 (2011-06), which only affected the C source code.	In-force
		Still-image compression – JPEG-1 extensions		-
T.851	2005-09-13	ITU-T T.81 (JPEG-1)-based still-image coding using an alternative arithmetic coder		In-force
T.851 (2005) Cor. 1	2006-05-29			In-force
T.870	2002-03-29	Information technology – Lossless and near-lossless compression of continuous-tone still images: Extensions	This Recommendation includes an electronic attachment containing the data set used for implementing the JPEG-LS T.870 extension conformance test	In-force
T.871	2011-05-14	Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF)	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment.	In-force
T.872	2012-06-29	Information technology – Digital compression and coding of continuous-tone still images: Application to printing systems		Pre-published

Number	Approval date	Recommendation Title	Observation	Status
		Supplements to the Series T Recommendations		-
T Suppl. 1	2004-11-26	Conformance testing requirements for Recommendations of the T.170-series		In-force
T Suppl. 2	2011-03-25	ITU-T T.83x-series – Supplement on information technology – JPEG XR image coding system – System architecture		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series U : Telegraph switching				
		General		-
U.1	1993-03-12	Signalling conditions to be applied in the international telex service		In-force
U.2	1988-11-25	Standardization of dials and dial pulse generators for the international telex service		In-force
U.3	1988-11-25	Arrangements in switching equipment to minimize the effects of false calling signals		In-force
U.4	1988-11-25	Exchange of information regarding signals destined to be used over international circuits concerned with switched teleprinter networks		In-force
U.5	1988-11-25	Requirements to be met by regenerative repeaters in international connections		In-force
U.6	1988-11-25	Prevention of fraudulent transit traffic in the fully automatic international telex service		In-force
U.7	1993-03-12	Numbering schemes for automatic switching networks		In-force
U.8	1988-11-25	Hypothetical reference connections for telex and gentex networks		In-force
U.10	1993-03-12	Equipment of an international telex position		In-force
		Specific signalling schemes and interworking between signalling systems		-
U.11	1993-03-12	Telex and gentex signalling on intercontinental circuits used for intercontinental automatic transit traffic (type C signalling)		In-force
U.12	1993-03-12	Terminal and transit control signalling system for telex and similar services on international circuits (type D signalling)		In-force
U.15	1993-03-12	Interworking rules for international signalling systems according to Recommendations U.1, U.11 and U.12		In-force
		Signalling over radio and multiplexed channels		-
U.20	1988-11-25	Telex and gentex signalling on radio channels (synchronous 7-unit systems affording error correction by automatic repetition)		In-force
U.21	1988-11-25	Operator recall on a telex call set up on a radiotelegraph circuit		In-force
U.22	1988-11-25	Signals indicating delay in transmission on calls set up by means of synchronous systems with automatic error correction by repetition		In-force
U.23	1988-11-25	Use of radiotelegraph circuits with ARQ equipment for fully automatic telex calls charged on the basis of elapsed time		In-force
U.24	1988-11-25	Requirements for telex and gentex operation to be met by synchronous multiplex equipment described in Recommendation R.44		In-force

Number	Approval date	Recommendation Title	Observation	Status
U.25	1988-11-25	Requirements for telex and gentex operation to be met by code- and speed-dependent TDM systems conforming to Recommendation R.101		In-force
		Gentex signalling		In-force
U.30	1988-11-25	Signalling conditions for use in the international gentex network		In-force
U.31	1988-11-25	Prevention of connection to faulty stations and/or station lines in the gentex service		In-force
		Particular signalling facilities		-
U.40	1993-03-12	Reactions by automatic terminals connected to the telex network in the event of ineffective call attempts or signalling incidents		In-force
U.41	1988-11-25	Changed address interception and call redirection in the telex service		In-force
U.43	1988-11-25	Follow-on calls		In-force
U.44	1988-11-25	Multi-address calls in real time for broadcast purposes in the international telex service		In-force
U.45	1993-03-12	Response to the not-ready condition of the telex terminal		In-force
U.46	1993-03-12	Interruption of automatic transmission and flow control in the international telex service		In-force
		Radiotelex interworking		-
U.60	1988-11-25	General requirements to be met in interfacing the international telex network with maritime satellite systems		In-force
U.61	1993-03-12	Detailed requirements to be met in interfacing the international telex network with maritime satellite systems		In-force
U.62	1993-03-12	General requirements to be met in interfacing the international telex network with the fully automated maritime VHF/UHF radio system		In-force
U.63	1988-11-25	General requirements to be met in interfacing the international telex network with the maritime "direct printing" system		In-force
		Interworking between new information services and telex		-
U.70	1988-11-25	Telex service signals for telex to teletex interworking		In-force
U.74	1988-11-25	Extraction of telex selection information from a calling telex answerback		In-force
U.75	1993-03-12	Automatic called telex answerback check		In-force
		Telex store and forward		In-force
U.80	1993-03-12	International telex store and forward access from a telex subscriber		In-force
U.81	1996-10-18	International telex store-and-forward – Delivery to a telex subscriber		In-force
		Intex service		-
U.101	1993-03-12	Signalling systems for the Intex service (types E and F signalling)		In-force

Number	Approval date	Recommendation Title	Observation	Status
U.102	1996-07-19	Intex and similar services – Network requirements to effect interworking between terminals operating at different speeds		In-force
		Definitions		-
U.140	1988-11-25	Definitions of essential technical terms relating to telegraph switching and signalling		In-force
		The international telex service		In-force
U.200	1993-03-12	The international telex service – General technical requirements for interworking		In-force
U.201	1993-03-12	Interworking between the teletex service and the international telex service		In-force
U.202	1993-03-12	Technical requirements to be met in providing the international telex service within an integrated services digital network	This Recommendation is also included but not published in I series under alias number I.560	In-force
U.203	1993-03-12	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		In-force
U.204	1993-03-12	Interworking between the international telex service and the public interpersonal messaging service		In-force
U.205	1993-03-12	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		In-force
U.206	1993-03-12	Technical requirements for interworking between the international telex service and the videotex service		In-force
U.207	1993-03-12	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		In-force
U.208	1996-10-18	The international telex service – Interworking with the INMARSAT C system using one-stage selection		In-force
U.210	1993-03-12	Intex service network requirements to effect interworking with the international telex service		In-force
U.220	1993-03-12	The international telex service – Technical requirements for a status enquiry function in an interworking scenario		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series V : Data communication over the telephone network				
		General		In-force
V.1	1988-11-25	Equivalence between binary notation symbols and the significant conditions of a two-condition code		In-force
V.2	1988-11-25	Power levels for data transmission over telephone lines	H.51 was an alias name of ITU-T V.2. Only this alias name was suppressed. ITU-T V.2 remains valid	In-force
V.4	1988-11-25	General structure of signals of International Alphabet No. 5 code for character oriented data transmission over public telephone networks		In-force
V.7	1988-11-25	Definitions of terms concerning data communication over the telephone network		In-force
V.8	2000-11-17	Procedures for starting sessions of data transmission over the public switched telephone network		In-force
V.8 bis	2000-11-17	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		In-force
		Interfaces and voiceband modems		-
V.10/X.26	1993-03-12	Electrical characteristics for unbalanced double-current interchange circuits operating at data signalling rates nominally up to 100 kbit/s	This Recommendation is also included but not published in X series under alias number X.26	In-force
V.11/X.27	1996-10-18	Electrical characteristics for balanced double-current interchange circuits operating at data signalling rates up to 10 Mbit/s	This Recommendation is also included but not published in X series under alias number X.27	In-force
V.12	1995-08-29	Electrical characteristics for balanced double-current interchange circuits for interfaces with data signalling rates up to 52 Mbit/s		In-force
V.13	1993-03-12	Simulated carrier control		In-force
V.14	1993-03-12	Transmission of start-stop characters over synchronous bearer channels		In-force
V.14 (1993) Cor. 1	1998-09-25			In-force
V.15	1988-11-25	Use of acoustic coupling for data transmission		In-force
V.16	1988-11-25	Medical analogue data transmission modems		In-force
V.17	1991-02-22	A 2-wire modem for facsimile applications with rates up to 14 400 bit/s		In-force
V.17 (1991) Cor. 1	1998-09-25			In-force
V.18	2000-11-17	Operational and interworking requirements for DCEs operating in the text telephone mode		In-force

Number	Approval date	Recommendation Title	Observation	Status
V.18 (2000) Amd. 1	2002-11-29	Harmonization with ANSI TIA/EIA-825 (2000) text phones		In-force
V.19	1988-11-25	Modems for parallel data transmission using telephone signalling frequencies		In-force
V.21	1988-11-25	300 bits per second duplex modem standardized for use in the general switched telephone network		In-force
V.22	1988-11-25	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		In-force
V.22 bis	1988-11-25	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		In-force
V.23	1988-11-25	600/1200-baud modem standardized for use in the general switched telephone network		In-force
V.24	2000-02-17	List of definitions for interchange circuits between data terminal equipment (DTE) and data circuit-terminating equipment (DCE)		In-force
V.25	1996-10-18	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		In-force
V.25 (1996) Cor. 1	2001-07-29			In-force
V.25 bis	1996-10-18	Synchronous and asynchronous automatic dialling procedures on switched networks		In-force
V.26	1988-11-25	2400 bits per second modem standardized for use on 4-wire leased telephone-type circuits		In-force
V.26 bis	1988-11-25	2400/1200 bits per second modem standardized for use in the general switched telephone network		In-force
V.26 ter	1988-11-25	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		In-force
V.27	1988-11-25	4800 bits per second modem with manual equalizer standardized for use on leased telephone-type circuits		In-force
V.27 bis	1988-11-25	4800/2400 bits per second modem with automatic equalizer standardized for use on leased telephone-type circuits		In-force
V.27 ter	1988-11-25	4800/2400 bits per second modem standardized for use in the general switched telephone network		In-force
V.28	1993-03-12	Electrical characteristics for unbalanced double-current interchange circuits		In-force

Number	Approval date	Recommendation Title	Observation	Status
V.29	1988-11-25	9600 bits per second modem standardized for use on point-to-point 4-wire leased telephone-type circuits		In-force
V.31	1988-11-25	Electrical characteristics for single-current interchange circuits controlled by contact closure		In-force
V.31 bis	1988-11-25	Electrical characteristics for single-current interchange circuits using optocouplers		In-force
V.32	1993-03-12	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		In-force
V.32 bis	1991-02-22	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		In-force
V.33	1988-11-25	14 400 bits per second modem standardized for use on point-to-point 4-wire leased telephone-type circuits		In-force
V.34	1998-02-06	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		In-force
		Wideband modems		In-force
V.36	1988-11-25	Modems for synchronous data transmission using 60-108 kHz group band circuits		In-force
V.37	1988-11-25	Synchronous data transmission at a data signalling rate higher than 72 kbit/s using 60-108 kHz group band circuits		In-force
V.38	1996-10-18	A 48/56/64 kbit/s data circuit-terminating equipment standardized for use on digital point-to-point leased circuits		In-force
		Error control		In-force
V.41	1988-11-25	Code-independent error-control system		In-force
V.42	2002-03-29	Error-correcting procedures for DCEs using asynchronous-to-synchronous conversion		In-force
V.42 (2002) Cor. 1	2003-07-14			In-force
V.42 bis	1990-01-31	Data compression procedures for data circuit-terminating equipment (DCE) using error correction procedures		In-force
V.43	1998-02-06	Data flow control		In-force
V.44	2000-11-17	Data compression procedures		In-force
V.44 (2000) Cor. 1	2002-03-29			In-force
		Transmission quality and maintenance		In-force
V.50	1988-11-25	Standard limits for transmission quality of data transmission		In-force

Number	Approval date	Recommendation Title	Observation	Status
M.729/V.51	1988-11-25	Organization of the maintenance of international public switched telephone circuits used for data transmission	This Recommendation is also included but not published in V series under alias number V.51	In-force
V.53	1988-11-25	Limits for the maintenance of telephone-type circuits used for data transmission		In-force
V.54	1988-11-25	Loop test devices for modems		In-force
O.71/V.55	1988-11-25	Impulsive noise measuring equipment for telephone-type circuits	This Recommendation is also included but not published in V series under alias number V.55	In-force
V.56	1988-11-25	Comparative tests of modems for use over telephone-type circuits		In-force
V.56 bis	1995-08-29	Network transmission model for evaluating modem performance over 2-wire voice grade connections		In-force
V.56 ter	1996-08-16	Test procedure for evaluation of 2-wire 4 kHz voiceband duplex modems	This Recommendation includes 2 diskettes containing the data files used for the voiceband duplex modems throughput tests	In-force
V.58	1994-09-20	Management information model for V-Series DCEs		In-force
V.59	2000-11-17	Managed objects for diagnostic information of public switched telephone network connected V-series modem DCEs		In-force
V.59 (2000) Cor. 1	2001-07-29			In-force
V.59 (2000) Cor. 2	2002-03-29			In-force
		Simultaneous transmission of data and other signals		In-force
V.61	1996-08-16	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 poin		In-force
V.61 (1996) Cor. 1	2005-01-08			In-force
V.70	1996-08-16	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		In-force
V.70 (1996) Cor. 1	2005-01-08			In-force
V.75	1996-08-16	DSVD terminal control procedures		In-force
V.75 App. II	1998-02-06	Session establishment using V.75/H.245 procedures		In-force
V.75 (1996) Cor. 1	2005-01-08			In-force

Number	Approval date	Recommendation Title	Observation	Status
V.76	1996-08-16	Generic multiplexer using V.42 LAPM-based procedures		In-force
V.76 (1996) Cor. 1	2005-01-08			In-force
V.80	1996-08-16	In-band DCE control and synchronous data modes for asynchronous DTE		In-force
V.80 (1996) Amd. 1	2001-07-29	Additional data signalling rate codes in support of cellular systems		In-force
V.90	1998-09-25	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		In-force
V.91	1999-05-27	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		In-force
V.91 (1999) Cor. 1	2001-07-29			In-force
V.92	2000-11-17	Enhancements to Recommendation V.90		In-force
V.92 (2000) Amd. 1	2001-07-29	Update of Tables 18, 19, 31, 32, Figure 20 and Clauses 8.6.6, 8.7.6, 9.10.1, and 9.11		In-force
V.92 (2000) Amd. 2	2002-03-29	New interaction facilities for error-correcting procedures		In-force
V.92 (2000) Cor. 1	2003-07-14			In-force
		Interworking with other networks		In-force
V.100	1988-11-25	Interconnection between public data networks (PDNs) and the public switched telephone networks (PSTN)		In-force
V.110	2000-02-17	Support by an ISDN of data terminal equipments with V-series type interfaces	This Recommendation is also included but not published in I series under alias number I.463	In-force
V.120	1996-10-18	Support by an ISDN of data terminal equipment with V-series type interfaces with provision for statistical multiplexing	This Recommendation is also included but not published in I series under alias number I.465	In-force
V.120 (1996) Cor. 1	1999-05-27			In-force
V.130	1995-08-29	ISDN terminal adaptor framework		In-force
V.140	2005-01-08	Procedures for establishing communication between two multiprotocol audiovisual terminals using digital channels at a multiple of 64 or 56 kbit/s		In-force
V.150.0	2003-01-13	Modem-over-IP networks: Foundation		In-force
V.150.1	2003-01-13	Modem-over-IP networks: Procedures for the end-to-end connection of V-series DCEs	This edition includes the modifications introduced by Corrigendum 1 approved on July 2003 and by Corrigendum 2 approved on March 2004	In-force

Number	Approval date	Recommendation Title	Observation	Status
V.150.1 (2003) Cor. 1	2003-07-14		Never published, directly consolidated in ITU-T Rec. V.150.1 (01/2003). Only the electronic prepublished version is available on ITU Website	Pre-published
V.150.1 (2003) Cor. 2	2004-03-15		Never published, directly consolidated in ITU-T Rec. V.150.1 (01/2003). Only the electronic prepublished version is available on ITU Website	Pre-published
V.150.1 (2003) Amd. 1	2005-01-08	Modification to SSE reason identifier codes to support voice band data and text relay		In-force
V.150.1 (2003) Amd. 2	2006-05-29	ToIP and new SPRT data types support		In-force
V.151	2006-05-29	Procedures for the end-to-end connection of analogue PSTN text telephones over an IP network utilizing text relay	The published text of this Recommendation includes the modifications introduced by the Amendement 1 approved on 2007-08-29	In-force
V.151 (2006) Amd. 1	2007-08-29	New Annex E 'Payload format and signalling syntax for real-time text transported within an audio stream' and related changes	Never published, directly consolidated with ITU-T V.151 (05/2006)	In-force
V.152	2010-09-13	Procedures for supporting voice-band data over IP networks		In-force
V.153	2009-12-14	Interworking between ITU-T T.38 and ITU-T V.152 using IP peering for real-time facsimile services		In-force
		Interface layer specifications for data communication		-
V.230	1988-11-25	General data communications interface layer 1 specification		In-force
		Control procedures		In-force
V.250 Suppl. 1	2001-06-08	Various extensions to V.250 basic command set		In-force
V.250	2003-07-14	Serial asynchronous automatic dialling and control		In-force
V.251 (1996) Erratum 1	2003-10-10			In-force
V.251	1996-08-16	Procedure for DTE-controlled call negotiation	Approved and published as ITU-T V.25 ter/Annex A (08/96), included without further modification in V.25 ter (07/97), renumbered V.251 on 6 February 1998 and republished without further modifications	In-force
V.252	1998-02-06	Procedure for control of V.70 and H.324 terminals by a DTE		In-force

Number	Approval date	Recommendation Title	Observation	Status
V.253	1998-02-06	Control of voice-related functions in a DCE by an asynchronous DTE		In-force
V.254	2010-09-13	Asynchronous serial command interface for assistive and multi-functional communication devices		In-force
		Modems on digital circuits		-
V.300	1999-07-02	A 128 (144) kbit/s data circuit-terminating equipment standardized for use on digital point-to-point leased circuits		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series X : Data networks, open system communications and security				
		Public data networks		In-force
		Services and facilities		In-force
X.1	2000-03-31	International user classes of service in, and categories of access to, public data networks and Integrated Services Digital Networks (ISDNs)		In-force
X.2	2000-03-31	International data transmission services and optional user facilities in public data networks and ISDNs		In-force
X.3	2000-03-31	Packet Assembly/Disassembly facility (PAD) in a public data network		In-force
X.4	1988-11-25	General structure of signals of International Alphabet No. 5 code for character oriented data transmission over public data networks		In-force
X.5	1996-10-05	Facsimile Packet Assembly/Disassembly facility (FPAD) in a public data network		In-force
X.6	1997-08-09	Multicast service definition		In-force
X.6 (1997) Amd. 1	2000-03-31	Frame relay PVC multicast service definition		In-force
X.7	2004-04-29	Technical characteristics of data transmission services		In-force
X.8	1994-07-01	Multi-aspect PAD (MAP) framework and service definition		In-force
		Interfaces		In-force
X.20	1988-11-25	Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for start-stop transmission services on public data networks		In-force
X.20 bis	1988-11-25	Use on public data networks of Data Terminal Equipment (DTE) which is designed for interfacing to asynchronous duplex V-Series modems		In-force
X.21	1992-09-10	Interface between Data Terminal Equipment and Data Circuit-terminating Equipment for synchronous operation on public data networks		In-force
X.21 bis	1988-11-25	Use on public data networks of Data Terminal Equipment (DTE) which is designed for interfacing to synchronous V-Series modems		In-force
X.22	1988-11-25	Multiplex DTE/DCE interface for user classes 3-6		In-force
X.24	1988-11-25	List of definitions for interchange circuits between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) on public data networks		In-force
X.25	1996-10-05	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		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.25 (1996) Cor. 1	1998-09-25			In-force
V.10/X.26	1993-03-12	Electrical characteristics for unbalanced double-current interchange circuits operating at data signalling rates nominally up to 100 kbit/s	This Recommendation is also included but not published in X series under alias number X.26	In-force
V.11/X.27	1996-10-18	Electrical characteristics for balanced double-current interchange circuits operating at data signalling rates up to 10 Mbit/s	This Recommendation is also included but not published in X series under alias number X.27	In-force
X.28	1997-12-12	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		In-force
X.28 (1997) Amd. 1	2000-03-31	Extensions of PAD parameter settings and PAD service signals		In-force
X.29	1997-12-12	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		In-force
X.30	1993-03-12	Support of X.21, X.21 bis and X.20 bis based Data Terminal Equipments (DTEs) by an Integrated Services Digital Network (ISDN)	This Recommendation is also included but not published in I series under alias number I.461	In-force
X.31	1995-11-21	Support of packet mode terminal equipment by an ISDN	This Recommendation is also included but not published in I series under alias number I.462	In-force
X.32	1996-10-05	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 Servic		In-force
X.33	1996-10-05	Access to packet-switched data transmission services via frame relaying data transmission services		In-force
X.34	1996-10-05	Access to packet-switched data transmission services via B-ISDN		In-force
X.34 (1996) Cor. 1	2000-03-31			In-force
X.35	1993-11-16	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		In-force
X.36	2003-02-13	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		In-force
X.37	1995-04-10	Encapsulation in X.25 packets of various protocols including frame relay		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.38	1996-10-05	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		In-force
X.39	1996-10-05	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		In-force
X.42	2003-10-29	Procedures and methods for accessing a public data network from a DTE operating under control of a generalized polling protocol		In-force
X.45	1996-10-05	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		In-force
X.46	1998-09-25	Access to FRDTS via B-ISDN		In-force
X.48	1996-10-05	Procedures for the provision of a basic multicast service for data terminal equipments (DTEs) using Recommendation X.25		In-force
X.49	1996-10-05	Procedures for the provision of an extended multicast service for data terminal equipments (DTEs) using Recommendation X.25		In-force
		Transmission, signalling and switching		In-force
X.50	1988-11-25	Fundamental parameters of a multiplexing scheme for the international interface between synchronous data networks		In-force
X.50 bis	1988-11-25	Fundamental parameters of a 48-kbit/s user data signalling rate transmission scheme for the international interface between synchronous data networks		In-force
X.51	1988-11-25	Fundamental parameters of a multiplexing scheme for the international interface between synchronous data networks using 10-bit envelope structure		In-force
X.51 bis	1988-11-25	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		In-force
X.52	1988-11-25	Method of encoding anisochronous signals into a synchronous user bearer		In-force
X.53	1993-03-12	Numbering of channels on international multiplex links at 64 kbit/s		In-force
X.54	1988-11-25	Allocation of channels on international multiplex links at 64 kbit/s		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.55	1988-11-25	Interface between synchronous data networks using a 6 + 2 envelope structure and single channel per carrier (SCPC) satellite channels		In-force
X.56	1988-11-25	Interface between synchronous data networks using an 8 + 2 envelope structure and single channel per carrier (SCPC) satellite channels		In-force
X.57	1988-11-25	Method of transmitting a single lower speed data channel on a 64 kbit/s data stream		In-force
X.58	1988-11-25	Fundamental parameters of a multiplexing scheme for the international interface between synchronous non-switched data networks using no envelope structure		In-force
X.60	1988-11-25	Common channel signalling for circuit-switched data applications		In-force
X.70	1988-11-25	Terminal and transit control signalling system for start-stop services on international circuits between anisochronous data networks		In-force
X.71	1988-11-25	Decentralized terminal and transit control signalling system on international circuits between synchronous data networks		In-force
X.75	1996-10-05	Packet-switched signalling system between public networks providing data transmission services		In-force
X.75 (1996) Cor. 1	1998-09-25			In-force
X.76	2003-02-13	Network-to-network interface between public networks providing PVC and/or SVC frame relay data transmission service		In-force
X.77	1997-08-09	Interworking between PSPDNs via B-ISDN		In-force
X.77 (1997) Cor. 1	2000-03-31			In-force
X.78	1999-06-18	Interworking procedures between networks providing frame relay data transmission services via B-ISDN		In-force
X.78 (1999) Cor. 1	2000-03-31			In-force
X.80	1988-11-25	Interworking of interexchange signalling systems for circuit-switched data services		In-force
X.81	1988-11-25	Interworking between an ISDN circuit-switched and a circuit-switched public data network (CSPDN)		In-force
X.82	1988-11-25	Detailed arrangements for interworking between CSPDNs and PSPDNs based on Recommendation T.70		In-force
X.84	2004-03-19	Support of frame relay services over MPLS core networks		In-force
X.85/Y.1321	2001-03-15	IP over SDH using LAPS		In-force
X.85/Y.1321 (2001) Amd. 1	2004-04-29	Bit-oriented method for LAPS		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.85/Y.1321 (2001) Cor. 1	2005-06-29			In-force
X.85/Y.1321 (2001) Amd. 2	2009-01-13	Additional SAPI values for encapsulated protocols		In-force
X.86/Y.1323	2001-02-02	Ethernet over LAPS		In-force
X.86/Y.1323 (2001) Amd. 1	2002-04-13	Using Ethernet flow control as rate limiting		In-force
X.87/Y.1324	2003-10-29	Multiple services ring based on RPR		In-force
		Network aspects		In-force
X.92	1988-11-25	Hypothetical reference connections for public synchronous data networks		In-force
X.96	2000-03-31	Call progress signals in public data networks		In-force
X.110	2002-04-13	International routing principles and routing plan for Public Data Networks		In-force
X.111	2003-02-13	Principles for the routing of international frame relay traffic		In-force
X.115	1995-04-10	Definition of address translation capability in public data networks		In-force
X.115 (1995) Amd. 1	1996-10-05	Refinements		In-force
X.116	1996-10-05	Address translation registration and resolution protocol		In-force
X.121	2000-10-06	International numbering plan for public data networks		In-force
E.166/X.122	1998-03-09	Numbering plan interworking for the E.164 and X.121 numbering plans	This Recommendation is published with the double number E.166 and X.122.	In-force
X.123	1996-10-05	Mapping between escape codes and TOA/NPI for E.164/X.121 numbering plan interworking during the transition period		In-force
X.124	1999-06-18	Arrangements for the interworking of the E.164 and X.121 numbering plans for frame relay and ATM networks		In-force
X.125	1998-09-25	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		In-force
X.130	1988-11-25	Call processing delays in public data networks when providing international synchronous circuit-switched data services		In-force
X.131	1988-11-25	Call blocking in public data networks when providing international synchronous circuit-switched data services		In-force
X.134	1997-08-09	Portion boundaries and packet-layer reference events: basis for defining packet-switched performance parameters		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.135	1997-08-09	Speed of service (delay and throughput) performance values for public data networks when providing international packet-switched services		In-force
X.136	1997-08-09	Accuracy and dependability performance values for public data networks when providing international packet-switched services		In-force
X.137	1997-08-09	Availability performance values for public data networks when providing international packet-switched services		In-force
X.138	1997-08-09	Measurement of performance values for public data networks when providing international packet-switched services		In-force
X.139	1997-08-09	Echo, drop, generator and test DTEs for measurement of performance values in public data networks when providing international packet-switched services		In-force
X.140	1992-09-10	General quality of service parameters for communication via public data networks		In-force
X.141	1988-11-25	General principles for the detection and correction of errors in public data networks	A Corrigendum was indicated in 06/1990 for the English version	In-force
X.141 (1988) Cor. 1	1990-02-16		Cor.1 to X.134 (1988), X.135 (1988), X.136 (1988), X.137 (1988), X.140 (1988) and X.141 (1988) were published in a common covering note in June 1990	In-force
X.142	2003-10-29	Quality of service metrics for characterizing Frame Relay/ATM service interworking performance		In-force
X.144	2003-10-29	User information transfer performance parameters for public frame relay data networks		In-force
X.145	2003-10-29	Connection establishment and disengagement performance parameters for public Frame Relay data networks providing SVC services		In-force
X.146	2000-10-06	Performance objectives and quality of service classes applicable to frame relay		In-force
X.147	2003-10-29	Frame Relay network availability		In-force
X.147 (2003) Amd. 1	2004-04-29	Specification of availability objective values		In-force
X.148	2003-02-13	Procedures for the measurement of the performance of public data networks providing the international frame relay service		In-force
X.149	2003-10-29	Performance of IP networks when supported by public Frame Relay data networks		In-force
		Maintenance		-

Number	Approval date	Recommendation Title	Observation	Status
X.150	1988-11-25	Principles of maintenance testing for public data networks using Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) test loops		In-force
X.151	2003-10-29	Frame Relay operations and maintenance – Principles and functions		In-force
X.151 (2003) Erratum 1	2004-03-29		Applies to English version only	In-force
X.160	1996-10-05	Architecture for customer network management service for public data networks		In-force
X.161	1997-08-09	Definition of customer network management services for public data networks		In-force
X.162	2000-03-31	Definition of management information for customer network management service for public data networks to be used with the CNMc interface		In-force
X.163	1995-04-10	Definition of management information for customer network management service for public data networks to be used with the CNMe interface		In-force
X.170	1999-06-18	Network-network management architecture for data networks		In-force
X.171	2000-03-31	Network-network management services for data networks		In-force
		Administrative arrangements		In-force
X.180	1988-11-25	Administrative arrangements for international closed user groups (CUGs)		In-force
X.181	1988-11-25	Administrative arrangements for the provision of international permanent virtual circuits (PVCs)		In-force
		Open Systems Interconnection		-
		Model and notation		-
X.200	1994-07-01	Information technology – Open Systems Interconnection – Basic Reference Model: The basic model		In-force
X.207	1993-11-16	Information technology – Open Systems Interconnection – Application layer structure		In-force
		Service definitions		-
X.210	1993-11-16	Information technology – Open Systems Interconnection – Basic Reference Model: Conventions for the definition of OSI services		In-force
X.211	1995-11-21	Information technology – Open Systems Interconnection – Physical service definition		In-force
X.212	1995-11-21	Information technology – Open Systems Interconnection – Data Link service definition		In-force
X.213	2001-10-29	Information technology – Open Systems Interconnection – Network service definition		In-force
X.214	1995-11-21	Information technology – Open Systems Interconnection -Transport service definition		In-force
X.215	1995-11-21	Information technology – Open Systems Interconnection – Session service definition		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.215 (1995) Amd. 1	1997-08-09	Efficiency enhancements		In-force
X.215 (1995) Amd. 2	1997-12-12	Nested connections functional unit		In-force
X.215 (1995) Technical Cor. 1	2000-03-31			In-force
X.216	1994-07-01	Information technology – Open Systems Interconnection – Presentation service definition		In-force
X.216 (1994) Amd. 1	1997-08-09	Efficiency enhancements		In-force
X.216 (1994) Amd. 2	1997-12-12	Nested connections functional unit		In-force
X.217	1995-04-10	Information technology – Open Systems Interconnection – Service definition for the Association Control Service Element		In-force
X.217 (1995) Amd. 1	1996-10-05	Support of authentication mechanisms for the connectionless mode		In-force
X.217 (1995) Amd. 2	1997-08-09	Fast-associate mechanism		In-force
X.217 bis	1998-09-25	Information technology – Open Systems Interconnection – Service definition for the Application Service Object Association Control Service Element		In-force
X.218	1993-03-12	Reliable Transfer: Model and service definition		In-force
X.219	1988-11-25	Remote Operations: Model, notation and service definition		In-force
		Connection-mode protocol specifications		-
X.220	1993-03-12	Use of X.200-Series protocols in CCITT applications		In-force
X.222	1995-04-10	Use of X.25 LAPB-compatible Data Link procedures to provide the OSI connection-mode Data Link service	This title results from the modification of ITU-T X.222 (04/95) former title by Amendment 1 (10/96)	In-force
X.222 (1995) Amd. 1	1996-10-05	Frame relay mapping		In-force
X.223	1993-11-16	Use of X.25 to provide the OSI connection-mode Network service for ITU-T applications		In-force
X.223 (1993) Amd. 1	1996-10-05	Transit delay and other refinements		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.224	1995-11-21	Information technology – Open Systems Interconnection – Protocol for providing the connection-mode transport service		In-force
X.224 (1995) Amd. 1	1997-08-09	Relaxation of class conformance requirements and expedited data service feature negotiation		In-force
X.225	1995-11-21	Information technology – Open Systems Interconnection – Connection-oriented Session protocol: Protocol specification		In-force
X.225 (1995) Amd. 1	1997-08-09	Efficiency enhancements		In-force
X.225 (1995) Amd. 2	1997-12-12	Nested connections functional unit		In-force
X.225 (1995) Technical Cor. 1	2000-03-31			In-force
X.226	1994-07-01	Information technology – Open Systems Interconnection – Connection-oriented Presentation protocol: Protocol specification		In-force
X.226 (1994) Amd. 1	1997-08-09	Efficiency enhancements		In-force
X.226 (1994) Amd. 2	1997-12-12	Nested connections functional unit		In-force
X.227	1995-04-10	Information technology – Open Systems Interconnection – Connection-oriented protocol for the Association Control Service Element: Protocol specification		In-force
X.227 (1995) Amd. 1	1996-10-05	Incorporation of extensibility markers		In-force
X.227 (1995) Amd. 2	1997-08-09	Fast-associate mechanism		In-force
X.227 bis	1998-09-25	Information technology – Open Systems Interconnection – Connection-mode protocol for the Application Service Object Association Control Service Element		In-force
X.228	1988-11-25	Reliable Transfer: Protocol specification		In-force
X.228 (1988) Corr. 1	2000-03-31			In-force
X.229	1988-11-25	Remote Operations: Protocol specification		In-force
		Connectionless-mode protocol specifications		-
X.233	1997-08-09	Information technology – Protocol for providing the connectionless-mode network service: Protocol specification		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.234	1994-07-01	Information technology – Protocol for providing the OSI connectionless-mode transport service		In-force
X.234 (1994) Amd. 1	1995-11-21	Addition of connectionless-mode multicast capability		In-force
X.235	1995-04-10	Information technology – Open Systems Interconnection – Connectionless Session protocol: Protocol specification		In-force
X.235 (1995) Amd. 1	1999-06-18	Efficiency enhancements		In-force
X.236	1995-04-10	Information technology – Open Systems Interconnection – Connectionless Presentation protocol: Protocol specification		In-force
X.236 (1995) Amd. 1	1999-06-18	Efficency enhancements		In-force
X.237	1995-04-10	Information technology – Open Systems Interconnection – Connectionless protocol for the Association Control Service Element: Protocol specification		In-force
X.237 (1995) Amd. 1	1996-10-05	Incorporation of extensibility markers and authentication parameters		In-force
X.237 (1995) Amd. 1/Technical Cor. 1	1999-06-18			In-force
X.237 bis	1998-09-25	Information technology – Open Systems Interconnection – Connectionless protocol for the Application Service Object Association Control Service Element		In-force
		PICS proformas		-
X.245	1995-04-10	Information technology – Open Systems Interconnection – Connection-oriented Session protocol: Protocol Implementation Conformance Statement (PICS) proforma		In-force
X.246	1996-10-05	Information technology – Open Systems Interconnection – Connection-oriented Presentation protocol: Protocol Implementation Conformance Statement (PICS) proforma		In-force
X.247	1996-10-05	Information technology – Open Systems Interconnection – Protocol specification for the Association Control Service Element: Protocol Implementation Conformance Statement (PICS) proforma		In-force
X.248	1995-11-21	Information technology – Open Systems Interconnection – Reliable Transfer: Protocol Implementation Conformance Statement (PICS) proforma		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.249	1995-11-21	Information technology – Open Systems Interconnection – Remote Operations: Protocol Implementation Conformance Statement (PICS) proforma		In-force
X.255	1995-04-10	Information technology – Open Systems Interconnection – Connectionless Session protocol: Protocol Implementation Conformance Statement (PICS) proforma		In-force
X.256	1995-04-10	Information technology – Open Systems Interconnection – Connectionless Presentation protocol: Protocol Implementation Conformance Statement (PICS) proforma		In-force
X.257	1995-04-10	Information technology – Open Systems Interconnection – Connectionless protocol for the Association Control Service Element: Protocol Implementation Conformance Statement (PICS) proforma		In-force
X.257 (1995) Amd. 1	1996-10-05	Support of authentication parameters		In-force
		Protocol Identification		-
X.260	1996-10-05	Information technology – Framework for protocol identification and encapsulation		In-force
X.263	1998-09-25	Information technology – Protocol identification in the Network Layer		In-force
X.264	1993-11-16	Transport protocol identification mechanism		In-force
		Security Protocols		In-force
X.272	2000-03-31	Data compression and privacy over frame relay networks		In-force
X.273	1994-07-01	Information technology – Open Systems Interconnection – Network layer security protocol		In-force
X.274	1994-07-01	Information technology – Telecommunication and information exchange between systems – Transport layer security protocol		In-force
		Layer Managed Objects		In-force
X.281	1999-06-18	Information technology – Elements of management information related to the OSI Physical Layer		In-force
X.282	1999-06-18	Elements of management information related to the OSI Data Link layer		In-force
X.283	1997-12-12	Information technology – Elements of management information related to the OSI Network layer		In-force
X.284	1997-12-12	Information technology – Elements of management information related to the OSI Transport layer		In-force
X.287	1999-03-26	Information technology – Open Systems Interconnection – Structure of management information: Managed objects for supporting upper layers		In-force

Number	Approval date	Recommendation Title	Observation	Status
		Conformance testing		-
X.290	1995-04-10	OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – General concepts		In-force
X.291	1995-04-10	OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Abstract test suite specification		In-force
X.292	2002-05-14	OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – The Tree and Tabular Combined Notation (TTCN)		In-force
X.293	1995-04-10	OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Test realization		In-force
X.294	1995-04-10	OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Requirements on test laboratories and clients for the conformance assessment process		In-force
X.295	1995-04-10	OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Protocol profile test specification		In-force
X.296	1995-11-21	OSI conformance testing methodology and framework for protocol Recommendations for ITU-T applications – Implementation conformance statements		In-force
		Interworking between networks		-
		General		In-force
X.300	1996-10-05	General principles for interworking between public networks and between public networks and other networks for the provision of data transmission services		In-force
X.301	1996-10-05	Description of the general arrangements for call control within a subnetwork and between subnetworks for the provision of data transmission services		In-force
X.302	1988-11-25	Description of the general arrangements for internal network utilities within a subnetwork and intermediate utilities between subnetworks for the provision of data transmission services	Formerly a part of Rec. X.300 (1984)	In-force
X.305	1988-11-25	Functionalities of subnetworks relating to the support of the OSI connection-mode network service		In-force
X.320	1996-10-05	General arrangements for interworking between Integrated Services Digital Networks (ISDNs) for the provision of data transmission services		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.321	1996-10-05	General arrangements for interworking between Circuit-Switched Public Data Networks (CSPDNs) and Integrated Services Digital Networks (ISDNs) for the provision of data transmission services	This Recommendation is also included but not published in I series under alias number I.540	In-force
X.322	1988-11-25	General arrangements for interworking between Packet-Switched Public Data Networks (PSPDNs) and Circuit-Switched Public Data Networks (CSPDNs) for the provision of data transmission services		In-force
X.323	1988-11-25	General arrangements for interworking between Packet-Switched Public Data Networks (PSPDNs)		In-force
X.324	1988-11-25	General arrangements for interworking between Packet-Switched Public Data Networks (PSPDNs) and public mobile systems for the provision of data transmission services		In-force
X.325	1996-10-05	General arrangements for interworking between Packet-Switched Public Data Networks (PSPDNs) and Integrated Services Digital Networks (ISDNs) for the provision of data transmission services	This Recommendation is also included but not published in I series under alias number I.550	In-force
X.326	1988-11-25	General arrangements for interworking between Packet-Switched Public Data Networks (PSPDNs) and Common Channel Signalling Network (CCSN)		In-force
X.327	1993-11-16	General arrangements for interworking between Packet-Switched Public Data Networks (PSPDNs) and private data networks for the provision of data transmission services		In-force
X.328	1996-10-05	General arrangements for interworking between Public Data Networks providing frame relay data transmission services and Integrated Services Digital Networks (ISDNs) for the provision of data transmission services		In-force
X.329	2000-03-31	General arrangements for interworking between networks providing frame relay data transmission services and B-ISDN		In-force
X.340	1993-03-12	General arrangements for interworking between a Packet-Switched Public Data Network (PSPDN) and the international telex network		In-force
		Satellite data transmission systems		-
X.350	1997-12-12	General interworking requirements to be met for data transmission in international public mobile satellite systems		In-force
X.351	1988-11-25	Special requirements to be met for Packet Assembly/Disassembly facilities (PADs) located at or in association with coast earth stations in the public mobile satellite service		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.352	1988-11-25	Interworking between Packet-Switched Public Data Networks and public maritime mobile satellite data transmission systems		In-force
X.353	1988-11-25	Routing principles for interconnecting public maritime mobile satellite data transmission systems with public data networks		In-force
X.361	1996-10-05	Connection of VSAT systems with Packet-Switched Public Data Networks based on X.25 procedures		In-force
		IP-based networks		In-force
X.371/Y.1402	2001-02-02	General arrangements for interworking between Public Data Networks and the Internet		In-force
		Message Handling Systems		-
F.400/X.400	1999-06-18	Message handling system and service overview		In-force
X.402	1999-06-18	Information technology – Message Handling Systems (MHS): Overall architecture		In-force
X.404	1999-06-18	Information technology – Message Handling Systems (MHS): MHS routing – Guide for messaging systems managers		In-force
X.408	1988-11-25	Message handling systems: Encoded information type conversion rules		In-force
X.411	1999-06-18	Information technology – Message Handling Systems (MHS): Message Transfer System: Abstract Service Definition and Procedures		In-force
X.412	1999-06-18	Information technology – Message Handling Systems (MHS): MHS routing		In-force
X.413	1999-06-18	Information technology – Message Handling Systems (MHS): Message store – Abstract service definition		In-force
X.419	1999-06-18	Information technology – Message Handling Systems (MHS): Protocol Specifications		In-force
X.420	1999-06-18	Information technology – Message Handling Systems (MHS): Interpersonal Messaging System		In-force
X.421	1999-06-18	Message handling systems: COMFAX use of MHS		In-force
X.435	1999-06-18	Information technology – Message Handling Systems (MHS): Electronic data interchange messaging system		In-force
X.440	1999-06-18	Message handling systems: Voice messaging system		In-force
X.445	1995-04-10	Asynchronous protocol specification – Provision of OSI connection mode network service over the telephone network		In-force
X.446	1997-08-09	Common messaging call API		In-force
X.460	1995-04-10	Information technology – Message Handling Systems (MHS) Management: Model and architecture		In-force
X.462	1996-10-05	Information technology – Message Handling Systems (MHS) Management: Logging information		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.467	1996-10-05	Information technology – Message Handling Systems (MHS) Management: Message Transfer Agent management		In-force
X.481	1999-06-18	Message handling systems – P2 protocol PICS proforma		In-force
X.482	1999-06-18	Message handling systems – P1 Protocol PICS proforma		In-force
X.483	1999-06-18	Message handling systems – P3 Protocol PICS proforma		In-force
X.484	1999-06-18	Message handling systems – P7 protocol PICS proforma		In-force
X.485	1992-09-10	Message handling systems: Voice messaging system Protocol Implementation Conformance Statement (PICS) proforma		In-force
X.486	1999-06-18	Message handling systems – Pedi protocol PICS proforma		In-force
X.487	1999-06-18	Message handling systems – IPM-MS attributes PICS proforma		In-force
X.488	1999-06-18	Message handling systems – EDI-MS attributes PICS proforma		In-force
		Directory		-
X.500	2008-11-13	Information technology – Open Systems Interconnection – The Directory: Overview of concepts, models and services		In-force
X.500	2012-10-14	Information technology – Open Systems Interconnection – The Directory: Overview of concepts, models and services		Pre-published
X.501	2008-11-13	Information technology – Open Systems Interconnection – The Directory: Models		In-force
X.501 (2008) Cor. 1	2011-02-13			In-force
X.501 (2008) Cor. 2	2012-04-13			In-force
X.501 (2008) Cor. 3	2012-10-14			Pre-published
X.501	2012-10-14	Information technology – Open Systems Interconnection – The Directory: Models		Pre-published
X.509	2008-11-13	Information technology – Open systems interconnection – The Directory: Public-key and attribute certificate frameworks		In-force
X.509 (2008) Cor. 1	2011-02-13			In-force
X.509 (2008) Cor. 2	2012-04-13			In-force
X.509 (2008) Cor. 3	2012-10-14			Pre-published

Number	Approval date	Recommendation Title	Observation	Status
X.509	2012-10-14	Information technology – Open systems interconnection – The Directory: Public-key and attribute certificate frameworks		Pre-published
X.511	2008-11-13	Information technology – Open Systems Interconnection – The Directory: Abstract service definition		In-force
X.511 (2008) Cor. 1	2011-02-13			In-force
X.511 (2008) Cor. 2	2012-04-13			In-force
X.511 (2008) Cor. 3	2012-10-14			Pre-published
X.511	2012-10-14	Information technology – Open Systems Interconnection – The Directory: Abstract service definition		Pre-published
X.518	2008-11-13	Information technology – Open Systems Interconnection – The Directory: Procedures for distributed operation		In-force
X.518 (2008) Cor. 1	2011-02-13			In-force
X.518 (2008) Cor. 2	2012-10-14			Pre-published
X.518	2012-10-14	Information technology – Open Systems Interconnection – The Directory: Procedures for distributed operation		Pre-published
X.519	2008-11-13	Information technology – Open Systems Interconnection – The Directory: Protocol specifications		In-force
X.519 (2008) Cor. 1	2011-02-13			In-force
X.519 (2008) Cor. 2	2012-04-13			In-force
X.519	2012-10-14	Information technology – Open Systems Interconnection – The Directory: Protocols		Pre-published
X.520	2008-11-13	Information technology – Open Systems Interconnection – The Directory: Selected attribute types		In-force
X.520 (2008) Cor. 1	2011-02-13			In-force
X.520 (2008) Cor. 2	2012-04-13			In-force
X.520 (2008) Cor. 3	2012-10-14			Pre-published

Number	Approval date	Recommendation Title	Observation	Status
X.520	2012-10-14	Information technology – Open Systems Interconnection – The Directory: Selected attribute types		Pre-published
X.521	2008-11-13	Information technology – Open Systems Interconnection – The Directory: Selected object classes		In-force
X.521 (2008) Cor. 1	2012-04-13			In-force
X.521	2012-10-14	Information technology – Open Systems Interconnection – The Directory: Selected object classes		Pre-published
X.525	2008-11-13	Information technology – Open Systems Interconnection – The Directory: Replication		In-force
X.525 (2008) Cor. 1	2011-02-13			In-force
X.525	2012-10-14	Information technology – Open Systems Interconnection – The Directory: Replication		Pre-published
X.530	2005-08-29	Information technology – Open Systems Interconnection – The Directory: Use of systems management for administration of the Directory		In-force
X.530	2008-11-13	Information technology – Open Systems Interconnection – The Directory: Use of systems management for administration of the Directory		In-force
		OSI networking and system aspects		-
		Networking		-
X.601	2000-03-31	Multi-peer communications framework		In-force
X.602	2004-04-29	Information technology – Group management protocol		In-force
X.603	2012-03-29	Information technology – Relayed multicast protocol: Framework		Pre-published
X.603.1	2012-08-13	Information technology – Relayed multicast protocol: Specification for simplex group applications		Pre-published
X.603.2	2010-10-14	Information technology - Relayed multicast protocol: Specification for N-plex group applications	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment.	In-force
X.604	2010-03-01	Information technology – Mobile multicast communications: Framework		In-force
X.604.1	2010-03-01	Information technology – Mobile multicast communications: Protocol over native IP multicast networks		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.604.2	2010-10-14	Information technology - Mobile multicast communications: Protocol over overlay multicast networks	Prior to 23 May 2012, the posted file incorrectly indicated that this text was produced through a joint activity with ISO and IEC. The posted file was replaced on 23 May 2012.	In-force
X.605	1998-09-25	Information technology – Enhanced Communications Transport Service definition		In-force
X.606	2001-10-29	Information technology – Enhanced Communications Transport Protocol: Specification of simplex multicast transport		In-force
X.606.1	2003-02-13	Information technology – Enhanced Communications Transport Protocol: Specification of QoS management for simplex multicast transport		In-force
X.607	2007-02-13	Information technology – Enhanced communications transport protocol: Specification of duplex multicast transport		In-force
X.607.1	2008-11-13	Information technology – Enhanced communications transport protocol: Specification of QoS management for duplex multicast transport		In-force
X.608	2007-02-13	Information technology – Enhanced communications transport protocol: Specification of N-plex multicast transport		In-force
X.608.1	2008-11-13	Information technology – Enhanced communications transport protocol: Specification of QoS management for n-plex multicast transport		In-force
X.610	1992-09-10	Provision and support of the OSI connection-mode Network service		In-force
X.612	1992-09-10	Information technology – Provision of the OSI connection-mode network service by packet-mode terminal equipment connected to an Integrated Services Digital Network (ISDN)		In-force
X.613	1992-09-10	Information technology – Use of X.25 Packet Layer Protocol in conjunction with X.21/X.21 bis to provide the OSI connection-mode Network service		In-force
X.614	1992-09-10	Information technology – Use of X.25 Packet Layer Protocol to provide the OSI connection-mode Network service over the telephone network		In-force
X.622	1994-07-01	Information technology – Protocol for providing the connectionless-mode Network service: Provision of the underlying service by an X.25 Subnetwork		In-force
X.623	1994-07-01	Information technology – Protocol for providing the connectionless-mode Network service: Provision of the underlying service by a subnetwork that provides the OSI Data Link service		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.625	1996-10-05	Information technology – Protocol for providing the connectionless-mode Network service: Provision of the underlying service by ISDN circuit-switched B-channels		In-force
		Efficiency		-
X.630	1998-09-25	Efficient Open Systems Interconnection (OSI) operations		In-force
X.633	1996-10-05	Information technology – Open Systems Interconnection – Network Fast Byte Protocol		In-force
X.633 (1996) Add. 1	1998-09-25	SDL specifications	This addendum includes one diskette containing the SDT files of the SDL specifications of Network Fast Byte protocol	In-force
X.634	1996-10-05	Information technology – Open Systems Interconnection – Transport Fast Byte Protocol		In-force
X.634 (1996) Add. 1	1998-09-25	SDL specifications	This addendum includes one diskette containing the SDT files of the SDL specifications of Transport Fast Byte protocol	In-force
X.637	1996-10-05	Basic connection-oriented common upper layer requirements		In-force
X.638	1996-10-05	Minimal OSI facilities to support basic communications applications		In-force
X.639	1996-10-05	Basic connection-oriented requirements for ROSE-based profiles		In-force
		Quality of service		-
X.641	1997-12-12	Information technology – Quality of service: framework		In-force
X.642	1998-09-25	Information technology – Quality of service – Guide to methods and mechanisms		In-force
		Naming, Addressing and Registration		-
X.650	1996-10-05	Information technology – Open Systems Interconnection – Basic Reference Model: Naming and addressing		In-force
X.660	2011-07-29	Information technology – Procedures for the operation of object identifier registration authorities: General procedures and top arcs of the international object identifier tree		In-force
X.662	2008-08-29	Information technology – Open Systems Interconnection – Procedures for the operation of OSI Registration Authorities: Registration of object identifier arcs beneath the top-level arc jointly administered by ISO and ITU-T		In-force
X.665	2004-08-22	Information technology – Open Systems Interconnection – Procedures for the operation of OSI Registration Authorities: Registration of application processes and application entities		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.666	2008-08-29	Information technology – Open Systems Interconnection – Procedures for the operation of OSI Registration Authorities: Joint ISO and ITU-T registration of international organizations		In-force
X.667	2008-08-29	Information technology – Open Systems Interconnection – Procedures for the operation of OSI Registration Authorities: Generation and registration of Universally Unique Identifiers (UUIDs) and their use as ASN.1 object identifier components		In-force
X.668	2008-05-29	Information technology – Open Systems Interconnection – Procedures for the operation of OSI Registration Authorities: Registration of object identifier arcs for applications and services using tag-based identification		In-force
X.669	2008-08-29	Procedures for ITU-T registration of identified organizations		In-force
X.670	2004-08-22	Use of registration agents to register names subordinate to country names in the X.660 RH-name-tree		In-force
X.671	2004-08-22	Procedures for a Registration Authority operating on behalf of countries to register organization names subordinate to country names in the X.660 RH-name-tree		In-force
X.672	2010-08-29	Information technology - Open systems interconnection - Object identifier resolution system (ORS)		In-force
X.674	2011-02-13	Procedures for the registration of arcs under the Alerting object identifier arc		In-force
		Abstract Syntax Notation One (ASN.1)		-
X.680	2008-11-13	Information technology – Abstract Syntax Notation One (ASN.1): Specification of basic notation		In-force
X.680 (2008) Cor. 1	2011-10-14		This Corrigendum was republished to indicate 2012 as year of publication in ISO.	In-force
X.681	2008-11-13	Information technology – Abstract Syntax Notation One (ASN.1): Information object specification		In-force
X.681 (2008) Cor. 1	2011-10-14		This Corrigendum was republished to indicate 2012 as year of publication in ISO.	In-force
X.682	2008-11-13	Information technology – Abstract Syntax Notation One (ASN.1): Constraint specification		In-force
X.683	2008-11-13	Information technology – Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications		In-force
X.690	2008-11-13	Information technology – ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER)		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.690 (2008) Cor. 1	2011-10-14		This Corrigendum was republished to indicate 2012 as year of publication in ISO.	In-force
X.691	2008-11-13	Information technology – ASN.1 encoding rules: Specification of Packed Encoding Rules (PER)		In-force
X.691 (2008) Cor. 1	2011-10-14		This Corrigendum was republished to indicate 2012 as year of publication in ISO.	In-force
X.691 (2008) Cor. 2	2012-04-13			In-force
X.692	2008-11-13	Information technology – ASN.1 encoding rules: Specification of Encoding Control Notation (ECN)		In-force
X.692 (2008) Cor. 1	2011-10-14		This Corrigendum was republished to indicate 2012 as year of publication in ISO.	In-force
X.693	2008-11-13	Information technology – ASN.1 encoding rules: XML Encoding Rules (XER)		In-force
X.693 (2008) Cor. 1	2011-10-14		This Corrigendum was republished to indicate 2012 as year of publication in ISO.	In-force
X.694	2008-11-13	Information technology – ASN.1 encoding rules: Mapping W3C XML schema definitions into ASN.1		In-force
X.694 (2008) Cor. 1	2011-10-14		This Corrigendum was republished to indicate 2012 as year of publication in ISO.	In-force
X.695	2008-11-13	Information technology – ASN.1 encoding rules: Registration and application of PER encoding instructions		In-force
		OSI management		-
		Systems management framework and architecture		In-force
X.700	1992-09-10	Management framework for Open Systems Interconnection (OSI) for CCITT applications		In-force
X.701	1997-08-09	Information technology – Open Systems Interconnection – Systems management overview		In-force
X.702	1995-11-21	Information technology – Open Systems Interconnection – Application context for systems management with transaction processing		In-force
X.703	1997-10-24	Information technology – Open Distributed Management Architecture		In-force
X.703 (1997) Amd. 1	1998-06-26	Support using Common Object Request Broker Architecture (CORBA)		In-force
		Management communication service and protocol		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.710	1997-10-24	Information technology – Open Systems Interconnection – Common Management Information service		In-force
X.711	1997-10-24	Information technology – Open Systems Interconnection – Common Management Information Protocol: Specification		In-force
X.711 (1997) Technical Cor. 1	1999-03-26			In-force
X.711 (1997) Technical Cor. 2	2000-02-04	Revision to include ASN.1:1997		In-force
X.712	1992-09-10	Information technology – Open Systems Interconnection – Common management information protocol: Protocol Implementation Conformance Statement (PICS) proforma		In-force
X.712 (1992) Technical Cor.1	1996-10-05			In-force
X.712 (1992) Technical Cor. 2	1996-10-05			In-force
X.712 (1992) Technical Cor. 3	1998-06-26			In-force
		Structure of management information		In-force
X.720	1992-01-17	Information technology – Open Systems Interconnection – Structure of management information: Management information model		In-force
X.720 (1992) Technical Cor. 1	1994-02-01			In-force
X.720 (1992) Amd. 1	1995-11-21	Generalization of terms		In-force
X.721	1992-02-10	Information technology – Open Systems Interconnection – Structure of management information: Definition of management information		In-force
X.721 (1992) Technical Cor. 1	1994-02-01			In-force
X.721 (1992) Technical Cor. 2	1996-10-05			In-force

Number	Approval date	Recommendation Title	Observation	Status
X.721 (1992) Technical Cor. 3	1998-06-26			In-force
X.721 (1992) Technical Cor. 4	2000-02-04	Use of ASN.1 1997		In-force
X.721 (1992) Amd. 1	2001-08-13	States to support Lifecycle		In-force
X.722	1992-01-17	Information technology – Open Systems Interconnection – Structure of management information: Guidelines for the definition of managed objects		In-force
X.722 (1992) Amd. 1	1995-11-21	Set by create and component registration		In-force
X.722 (1992) Technical Cor. 1	1996-10-05			In-force
X.722 (1992) Amd. 2	1997-08-09	Addition of the NO-MODIFY syntax element and guidelines extension		In-force
X.722 (1992) Amd. 3	1997-08-09	Guidelines for the use of Z in formalizing the behaviour of managed objects		In-force
X.722 (1992) Technical Cor. 2	2000-02-04	Revision of GDMO to include ASN.1:1997		In-force
X.723	1993-11-16	Information technology – Open Systems Interconnection – Structure of management information: Generic management information		In-force
X.723 (1993) Technical Cor. 1	1998-06-26			In-force
X.723 (1993) Technical Cor. 2	2000-02-04			In-force
X.724	1996-10-05	Information technology – Open Systems Interconnection – Structure of management information: Requirements and guidelines for implementation conformance statement proformas associated with OSI management		In-force
X.725	1995-11-21	Information technology – Open Systems Interconnection – Structure of management information: General Relationship Model		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.727	1999-03-26	Information technology – Open Systems Interconnection – Structure of management information: Systems management application layer managed objects		In-force
		Management functions and ODMA functions		In-force
X.730	1992-01-17	Information technology – Open Systems Interconnection – Systems Management: Object management function		In-force
X.730 (1992) Amd. 1	1995-04-10	Implementation Conformance Statement proformas		In-force
X.730 (1992) Amd. 1/Technical Cor. 1	1996-10-05			In-force
X.731	1992-01-17	Information technology – Open Systems Interconnection – Systems management: State management function		In-force
X.731 (1992) Technical Cor. 1	1995-04-10			In-force
X.731 (1992) Amd. 1	1995-04-10	Implementation Conformance Statement proformas		In-force
X.731 (1992) Amd. 1/Technical Cor. 1	1996-10-05			In-force
X.731 (1992) Technical Cor. 2	2001-01-19	Clarification of state change event		In-force
X.731 (1992) Amd. 2	2001-01-19	Amendment to support LIFECYCLE state		In-force
X.732	1992-01-17	Information technology – Open Systems Interconnection – Systems Management: Attributes for representing relationships		In-force
X.732 (1992) Amd. 1	1995-04-10	Implementation Conformance Statement proformas		In-force
X.732 (1992) Amd. 1/Technical Cor. 1	1996-10-05			In-force
X.733	1992-02-10	Information technology – Open Systems Interconnection – Systems Management: Alarm reporting function		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.733 (1992) Technical Cor. 1	1994-02-01			In-force
X.733 (1992) Amd. 1	1995-04-10	Implementation Conformance Statement proformas		In-force
X.733 (1992) Amd. 1/Technical Cor. 1	1996-10-05			In-force
X.733 (1992) Technical Cor. 2	1999-03-26			In-force
X.734	1992-09-10	Information technology – Open Systems Interconnection – Systems Management: Event report management function		In-force
X.734 (1992) Technical Cor. 1	1994-02-01			In-force
X.734 (1992) Amd. 1	1995-04-10	Implementation Conformance Statement proformas		In-force
X.734 (1992) Amd. 1/Technical Cor. 1	1996-10-05			In-force
X.734 (1992) Technical Cor. 2	1999-03-26			In-force
X.735	1992-09-10	Information technology – Open Systems Interconnection – Systems Management: Log control function		In-force
X.735 (1992) Amd. 1	1995-04-10	Implementation Conformance Statement proformas		In-force
X.735 (1992) Amd. 1/Technical Cor. 1	1996-10-05			In-force
X.735 (1992) Technical Cor. 1	2001-03-01			In-force
X.736	1992-01-17	Information technology – Open Systems Interconnection – Systems Management: Security alarm reporting function		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.736 (1992) Amd. 1	1995-04-10	Implementation Conformance Statement proformas		In-force
X.736 (1992) Amd. 1/Technical Cor. 1	1996-10-05			In-force
X.737	1995-11-21	Information technology – Open Systems Interconnection – Systems Management: Confidence and diagnostic test categories		In-force
X.737 (1995) Technical Cor. 1	1998-06-26			In-force
X.737 (1995) Technical Cor. 2	2000-02-04	Revision to include ASN.1:1997		In-force
X.737 (1995) Technical Cor. 3	2001-03-01			In-force
X.738	1993-11-16	Information technology – Open Systems Interconnection – Systems management: Summarization function		In-force
X.738 (1993) Amd. 1	1996-10-05	Implementation conformance statement proformas		In-force
X.738 (1993) Technical Cor. 1	1998-06-26			In-force
X.738 (1993) Technical Cor. 2	2000-02-04	Revision to include ASN.1:1997		In-force
X.739	1993-11-16	Information technology – Open Systems Interconnection – Systems Management: Metric objects and attributes		In-force
X.739 (1993) Amd. 1	1997-08-09	Implementation conformance statement proformas		In-force
X.739 (1993) Technical Cor. 1	1998-06-26			In-force
X.740	1992-09-10	Information technology – Open Systems Interconnection – Systems Management: Security audit trail function		In-force
X.740 (1992) Technical Cor. 1	1995-04-10			In-force

Number	Approval date	Recommendation Title	Observation	Status
X.740 (1992) Technical Cor. 2	1996-10-05			In-force
X.740 (1992) Technical Cor. 3	1998-06-26			In-force
X.741	1995-04-10	Information technology – Open Systems Interconnection – Systems management: Objects and attributes for access control		In-force
X.741 (1995) Technical Cor. 1	1996-10-05			In-force
X.741 (1995) Technical Cor. 2	1998-06-26			In-force
X.741 (1995) Technical Cor. 3	2000-02-04			In-force
X.742	1995-04-10	Information technology – Open Systems Interconnection – Systems management: Usage metering function for accounting purposes		In-force
X.742 (1995) Amd. 1	1997-10-24	Implementation conformance statement proformas		In-force
X.742 (1995) Technical Cor. 1	1998-06-26			In-force
X.742 (1995) Technical Cor. 2	2000-02-04			In-force
X.743	1998-06-26	Information technology – Open Systems Interconnection – Systems Management: Time Management Function		In-force
X.743 (1998) Technical Cor. 1	2001-03-01			In-force
X.744	1996-10-18	Information technology – Open Systems Interconnection – Systems Management: Software management function		In-force
X.744 (1996) Technical Cor. 1	1998-06-26		This Technical Corrigendum applies to the English electronic version of ITU-T Rec. X.744, and is available in electronic format in English only	In-force

Number	Approval date	Recommendation Title	Observation	Status
X.744 (1996) Technical Cor. 2	2000-02-04	Revision to include ASN.1:1997		In-force
X.744 (1996) Technical Cor. 3	2001-03-01			In-force
X.744.1	2003-03-29	CORBA-based TMN software management service		In-force
X.745	1993-11-16	Information technology – Open Systems Interconnection – Systems Management: Test management function		In-force
X.745 (1993) Technical Cor. 1	1997-08-09			In-force
X.745 (1993) Technical Cor. 2	1998-06-26			In-force
X.745 (1993) Technical Cor. 3	2000-02-04			In-force
X.746	2000-02-04	Information technology – Open Systems Interconnection – Systems Management: Scheduling function		In-force
X.748	1999-03-26	Information technology – Open Systems Interconnection – Systems Management: Response Time Monitoring Function		In-force
X.749	1997-08-09	Information technology – Open Systems Interconnection – Systems Management: Management domain and management policy management function		In-force
X.750	1996-10-05	Information technology – Open Systems Interconnection – Systems Management: Management knowledge management function		In-force
X.750 (1996) Amd. 1	1997-10-24	Extension for General Relationship model		In-force
X.750 (1996) Technical Cor. 1	2000-02-04	Revision to include ASN.1:1997		In-force
X.751	1995-11-21	Information technology – Open Systems Interconnection – Systems Management: Changeover function		In-force
X.751 (1995) Technical Cor. 1	1998-06-26			In-force

Number	Approval date	Recommendation Title	Observation	Status
X.751 (1995) Technical Cor. 2	2000-02-04	Revision to include ASN.1:1997		In-force
X.753	1997-10-24	Information technology – Open Systems Interconnection – Systems management: Command Sequencer for Systems Management		In-force
X.754	2000-02-04	Enhanced Event Control Function		In-force
X.770	2001-01-19	ODMA notification dispatch function		In-force
X.780	2001-01-19	TMN guidelines for defining CORBA managed objects		In-force
X.780 (2001) Cor. 1	2001-10-07			In-force
X.780 (2001) Cor. 2	2002-05-29			In-force
X.780 (2001) Amd. 1	2002-05-29	System objects and user guide for bulk attribute retrieval		In-force
X.780.1	2001-08-13	TMN guidelines for defining coarse-grained CORBA managed object interfaces		In-force
X.780.1 (2001) Cor. 1	2002-05-29			In-force
X.780.1 (2001) Amd. 1	2002-05-29	System façades and user guide for bulk attribute retrieval		In-force
X.780.2	2007-03-16	TMN guidelines for defining service-oriented CORBA managed objects and façade objects		In-force
X.781	2001-08-13	Requirements and guidelines for Implementation Conformance Statements proformas associated with CORBA-based systems		In-force
X.782	2012-05-14	Guidelines for defining web services for managed objects and management interfaces		In-force
X.790	1995-11-21	Trouble management function for ITU-T applications		In-force
X.790 (1995) Amd. 1	1996-10-05	Implementation conformance statement proformas		In-force
X.790 (1995) Cor. 1	1999-03-26			In-force
X.790 (1995) Cor. 2	2001-03-01			In-force
X.791	1996-10-05	Profile for trouble management function for ITU-T applications		In-force
X.792	1999-03-26	Configuration audit support function for ITU-T applications		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.792 (1999) Cor. 1	2001-08-13			In-force
		Security		In-force
X.800	1991-03-22	Security architecture for Open Systems Interconnection for CCITT applications		In-force
X.800 (1991) Amd. 1	1996-10-05	Layer Two Security Service and Mechanisms for LANs		In-force
X.802	1995-04-10	Information technology – Lower layers security model		In-force
X.803	1994-07-01	Information technology – Open Systems Interconnection – Upper layers security model		In-force
X.805	2003-10-29	Security architecture for systems providing end-to-end communications		In-force
X.810	1995-11-21	Information technology – Open Systems Interconnection – Security frameworks for open systems: Overview		In-force
X.811	1995-04-10	Information technology – Open Systems Interconnection – Security frameworks for open systems: Authentication framework		In-force
X.812	1995-11-21	Information technology – Open Systems Interconnection – Security frameworks for open systems: Access control framework		In-force
X.813	1996-10-05	Information technology – Open Systems Interconnection – Security frameworks for open systems: Non-repudiation framework		In-force
X.814	1995-11-21	Information technology – Open Systems Interconnection – Security frameworks for open systems: Confidentiality framework		In-force
X.815	1995-11-21	Information technology – Open Systems Interconnection – Security frameworks for open systems: Integrity framework		In-force
X.816	1995-11-21	Information technology – Open Systems Interconnection – Security frameworks for open systems: Security audit and alarms framework		In-force
X.830	1995-04-10	Information technology – Open Systems Interconnection – Generic upper layers security: Overview, models and notation		In-force
X.831	1995-04-10	Information technology – Open Systems Interconnection – Generic upper layers security: Security Exchange Service Element (SESE) service definition		In-force
X.832	1995-04-10	Information technology – Open Systems Interconnection – Generic upper layers security: Security Exchange Service Element (SESE) protocol specification		In-force
X.833	1995-04-10	Information technology – Open Systems Interconnection – Generic upper layers security: Protecting transfer syntax specification		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.834	1996-10-05	Information technology – Open Systems Interconnection – Generic Upper Layers Security: Security Exchange Service Element (SESE) Protocol Implementation Conformance Statement (PICS) proforma		In-force
X.835	1996-10-05	Information technology – Open Systems Interconnection – Generic Upper Layers Security: Protecting transfer syntax Protocol Implementation Conformance Statement (PICS) proforma		In-force
X.841	2000-10-06	Information technology – Security techniques – Security information objects for access control		In-force
X.842	2000-10-06	Information technology – Security techniques – Guidelines for the use and management of trusted third party services		In-force
X.843	2000-10-06	Information technology – Security techniques – Specification of TTP services to support the application of digital signatures		In-force
		OSI applications		-
		Commitment, concurrency and recovery		-
X.851	1997-12-12	Information technology – Open Systems Interconnection – Service definition for the Commitment, Concurrency and Recovery service element		In-force
X.852	1997-12-12	Information technology – Open Systems Interconnection – Protocol for the Commitment, Concurrency and Recovery service element: Protocol specification		In-force
X.853	1995-11-21	Information technology – Open Systems Interconnection – Protocol for the Commitment, Concurrency and Recovery service element: Protocol Implementation Conformance Statement (PICS) proforma		In-force
		Transaction processing		In-force
X.860	1997-12-12	Open Systems Interconnection – Distributed Transaction Processing: Model		In-force
X.861	1997-12-12	Open Systems Interconnection – Distributed Transaction Processing: Service definition		In-force
X.862	1997-12-12	Open Systems Interconnection – Distributed Transaction Processing: Protocol specification		In-force
X.863	1994-07-01	Information technology – Open Systems Interconnection – Distributed Transaction Processing: Protocol Implementation Conformance Statement (PICS) proforma		In-force
		Remote operations		-
X.880	1994-07-01	Information technology – Remote Operations: Concepts, model and notation		In-force
X.880 (1994) Technical Cor. 1	1995-07-01			In-force

Number	Approval date	Recommendation Title	Observation	Status
X.880 (1994) Amd. 1	1995-11-21	Built-in operations		In-force
X.881	1994-07-01	Information technology – Remote Operations: OSI realizations – Remote Operations Service Element (ROSE) service definition		In-force
X.881 (1994) Amd. 1	1995-11-21	Mapping to A-UNIT-DATA service and built-in operations		In-force
X.882	1994-07-01	Information technology – Remote Operations: OSI realizations – Remote Operations Service Element (ROSE) protocol specification		In-force
X.882 (1994) Technical Cor. 1	1995-07-01			In-force
X.882 (1994) Amd. 1	1995-11-21	Mapping to A-UNIT-DATA service and built-in operations		In-force
		Generic applications of ASN.1		-
X.891	2005-05-14	Information technology – Generic applications of ASN.1: Fast infoset		In-force
X.891 (2005) Cor. 1	2011-10-14		This Corrigendum was republished to indicate 2012 as year of publication in ISO.	In-force
X.892	2005-05-14	Information technology – Generic applications of ASN.1: Fast Web Services		In-force
X.893	2007-05-29	Information technology – Generic applications of ASN.1: Fast infoset security		In-force
		Open distributed processing		In-force
X.901	1997-08-09	Information technology – Open Distributed Processing – Reference Model: Overview		In-force
X.902	2009-10-29	Information technology – Open Distributed Processing – Reference model: Foundations		In-force
X.903	2009-10-29	Information technology – Open Distributed Processing – Reference model: Architecture		In-force
X.904	1997-12-12	Information technology – Open Distributed Processing – Reference Model: Architectural Semantics		In-force
X.904 (1997) Amd. 1	2000-03-31	Computational formalization		In-force
X.906	2007-11-13	Information technology – Open distributed processing – Use of UML for ODP system specifications		In-force
X.906 (2007) Cor.1	2009-10-29			In-force
X.910	1998-09-25	Information technology – Open Distributed Processing – Naming framework		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.911	2005-05-14	Information technology – Open distributed processing – Reference model – Enterprise language		In-force
X.920	1997-12-12	Information technology – Open Distributed Processing – Interface Definition Language		In-force
X.930	1998-09-25	Information technology – Open Distributed Processing – Interface references and binding		In-force
X.931	1999-06-18	Information technology – Open Distributed Processing – Protocol support for computational interactions		In-force
X.950	1997-08-09	Information technology – Open Distributed Processing – Trading Function: Specification		In-force
X.952	1997-12-12	Information technology – Open Distributed Processing – Trading function: Provision of trading function using OSI Directory service		In-force
X.952 (1997) Technical Cor. 1	2005-07-14			In-force
X.960 (1999) Erratum 1	2002-10-04			In-force
X.960	1999-06-18	Information technology – Open Distributed Processing – Type repository function		In-force
		Information and network security		In-force
		Network security		-
X.1031	2008-03-22	Roles of end users and telecommunications networks within security architecture		In-force
X.1032	2010-12-17	Architecture of external interrelationships for a telecommunication IP-based network security system		In-force
X.1034	2011-02-13	Guidelines on extensible authentication protocol based authentication and key management in a data communication network		In-force
X.1035	2007-02-13	Password-authenticated key exchange (PAK) protocol		In-force
X.1036	2007-11-13	Framework for creation, storage, distribution and enforcement of policies for network security		In-force
		Security management		-
X.1051	2008-02-13	Information technology – Security techniques – Information security management guidelines for telecommunications organizations based on ISO/IEC 27002		In-force
X.1052	2011-05-29	Information security management framework		In-force
X.1054	2012-09-07	Information technology - Security techniques - Governance of information security		Pre-published
X.1055	2008-11-13	Risk management and risk profile guidelines for telecommunication organizations		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.1056	2009-01-13	Security incident management guidelines for telecommunications organizations		In-force
X.1057	2011-05-29	Asset management guidelines in telecommunication organizations		In-force
		Telebiometrics		-
X.1080.1	2011-10-14	e-Health and world-wide telemedicines - Generic telecommunication protocol		In-force
X.1081	2011-10-14	The telebiometric multimodal model – A framework for the specification of security and safety aspects of telebiometrics		In-force
X.1082	2007-11-13	Telebiometrics related to human physiology	The text originally published in February 2009 has been corrupted, and was replaced by a corrected text on 2010-05-18	In-force
X.1082 (2007) Amd.1	2009-10-29	Object identifier assignments under the telebiometrics arc		In-force
X.1082 (2007) Amd.2	2010-05-29	Enhancement to support the ISO/IEC 80000-series		In-force
X.1083	2007-11-13	Information technology – Biometrics – BioAPI interworking protocol		In-force
X.1084	2008-05-29	Telebiometrics system mechanism – Part 1: General biometric authentication protocol and system model profiles for telecommunications systems		In-force
X.1086	2008-11-13	Telebiometrics protection procedures - A guideline to technical and managerial countermeasures for biometric data security		In-force
X.1086 (2008) Amd. 1	2012-04-13	Multibiometric protection procedures		In-force
X.1088	2008-05-29	Telebiometrics digital key framework (TDK) – A framework for biometric digital key generation and protection		In-force
X.1089	2008-05-29	Telebiometrics authentication infrastructure (TAI)		In-force
X.1090	2011-05-29	Authentication framework with one-time telebiometric templates		In-force
X.1091	2012-04-13	A guideline for evaluating telebiometric template protection techniques		In-force
		Secure applications and services		-
		Multicast security		-
X.1101	2010-05-29	Security requirements and framework for multicast communication		In-force
		Home network security		-
X.1111	2007-02-13	Framework of security technologies for home network		In-force
X.1112	2007-11-13	Device certificate profile for the home network		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.1113	2007-11-13	Guideline on user authentication mechanisms for home network services		In-force
X.1114	2008-11-13	Authorization framework for home networks		In-force
		Mobile security		-
X.1121	2004-04-29	Framework of security technologies for mobile end-to-end data communications		In-force
X.1122	2004-04-29	Guideline for implementing secure mobile systems based on PKI		In-force
X.1123	2007-11-13	Differentiated security service for secure mobile end-to-end data communication		In-force
X.1124	2007-11-13	Authentication architecture for mobile end-to-end data communication		In-force
X.1125	2008-01-13	Correlative Reacting System in mobile data communication		In-force
		Web security		-
X.1141	2006-06-13	Security Assertion Markup Language (SAML 2.0)		In-force
X.1142	2006-06-13	eXtensible Access Control Markup Language (XACML 2.0)		In-force
X.1143	2007-11-13	Security architecture for message security in mobile web services		In-force
		Security protocols		-
X.1151	2007-11-13	Guideline on secure password-based authentication protocol with key exchange		In-force
X.1152	2008-05-29	Secure end-to-end data communication techniques using trusted third party services		In-force
X.1153	2011-02-13	Management framework of a one time password-based authentication service		In-force
		Peer-to-peer security		In-force
X.1161	2008-05-29	Framework for secure peer-to-peer communications		In-force
X.1162	2008-05-29	Security architecture and operations for peer-to-peer networks		In-force
X.1164	2012-10-14	Use of service providers' user authentication infrastructure to implement public key infrastructure for peer-to-peer networks		Pre-published
		Networked ID security		-
X.1171	2009-02-20	Threats and requirements for protection of personally identifiable information in applications using tag-based identification		In-force
		IPTV security		In-force
X.1191	2009-02-20	Functional requirements and architecture for IPTV security aspects		In-force
X.1192	2011-05-29	Functional requirements and mechanisms for the secure transcoding of IPTV		In-force
X.1193	2011-10-14	Key management framework for secure internet protocol television (IPTV) services		In-force
X.1194	2012-04-13	Algorithm selection scheme for service and content protection descrambling		In-force
X.1195	2011-02-13	Service and content protection interoperability scheme		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.1196	2012-10-14	Framework for the downloadable service and content protection system in the mobile Internet Protocol Television (IPTV) environment		Pre-published
X.1197	2012-04-13	Guidelines on criteria for selecting cryptographic algorithms for IPTV service and content protection		In-force
		Cyberspace security		-
		Cybersecurity		-
X.1205	2008-04-18	Overview of cybersecurity		In-force
X.1206	2008-04-18	A vendor-neutral framework for automatic notification of security related information and dissemination of updates		In-force
X.1207	2008-04-18	Guidelines for telecommunication service providers for addressing the risk of spyware and potentially unwanted software		In-force
X.1209	2010-12-17	Capabilities and their context scenarios for cybersecurity information sharing and exchange		In-force
		Countering spam		-
X.1231	2008-04-18	Technical strategies for countering spam		In-force
X.1240	2008-04-18	Technologies involved in countering e-mail spam		In-force
X.1241	2008-04-18	Technical framework for countering email spam		In-force
X.1242	2009-02-20	Short message service (SMS) spam filtering system based on user-specified rules		In-force
X.1243	2010-12-17	Interactive gateway system for countering spam		In-force
X.1244	2008-09-19	Overall aspects of countering spam in IP-based multimedia applications		In-force
X.1245	2010-12-17	Framework for countering spam in IP-based multimedia applications		In-force
		Identity management		In-force
X.1250	2009-09-25	Baseline capabilities for enhanced global identity management and interoperability		In-force
X.1251	2009-09-25	A framework for user control of digital identity		In-force
X.1252	2010-04-16	Baseline identity management terms and definitions		In-force
X.1253	2011-09-02	Security guidelines for identity management systems		In-force
X.1254	2012-09-07	Entity authentication assurance framework		Pre-published
X.1275	2010-12-17	Guidelines on protection of personally identifiable information in the application of RFID technology		In-force
		Secure applications and services		In-force
		Emergency communications		In-force
X.1303	2007-09-13	Common alerting protocol (CAP 1.1)		In-force
		Ubiquitous sensor network security		-

Number	Approval date	Recommendation Title	Observation	Status
X.1311	2011-02-13	Information technology – Security framework for ubiquitous sensor networks	This text was produced through a joint activity with ISO and IEC. In accordance with the agreement with our partners, this document is only available for payment. This Recommendation was republished to indicate 2012 as year of publication in ISO.	In-force
X.1312	2011-02-13	Ubiquitous sensor network middleware security guidelines	The edition posted on 9 August 2011 did not reflect the correct title. That edition was removed and a corrected edition was posted on 18 November 2011.	In-force
X.1313	2012-10-14	Security requirements for wireless sensor network routing		Pre-published
		Cybersecurity information exchange		In-force
		Overview of cybersecurity		In-force
X.1500	2011-04-20	Overview of cybersecurity information exchange		In-force
X.1500 (2011) Amd. 1	2012-03-02	Revised structured cybersecurity information exchange techniques		In-force
X.1500 (2011) Amd. 2	2012-09-07	Revised structured cybersecurity information exchange techniques		In-force
X.1500.1	2012-03-02	Procedures for the registration of arcs under the object identifier arc for cybersecurity information exchange		In-force
		Vulnerability/state exchange		In-force
X.1520	2011-04-20	Common vulnerabilities and exposures		In-force
X.1521	2011-04-20	Common vulnerability scoring system		In-force
X.1524	2012-03-02	Common weakness enumeration		In-force
X.1528	2012-09-07	Common platform enumeration		In-force
X.1528.1	2012-09-07	Common platform enumeration naming		In-force
X.1528.2	2012-09-07	Common platform enumeration name matching		In-force
X.1528.3	2012-09-07	Common platform enumeration dictionary		In-force
X.1528.4	2012-09-07	Common platform enumeration applicability language		In-force
		Event/incident/heuristics exchange		In-force
X.1541	2012-09-07	Incident object description exchange format		Pre-published
		Identification and discovery		In-force
X.1570	2011-09-02	Discovery mechanisms in the exchange of cybersecurity information		In-force
		Assured exchange		-
X.1580	2012-09-07	Real-time inter-network defence		In-force
X.1581	2012-09-07	Transport of real-time inter-network defence messages		In-force

Number	Approval date	Recommendation Title	Observation	Status
		Supplements to the Series X Recommendations		-
X Suppl. 1	1997-08-09	ITU-T X.135 – Supplement related to some test results from specific national and international portions	Published with ITU-T X.135 (1997)	In-force
X Suppl. 2	2007-09-28	ITU-T X.800-X.849 series – Supplement on security baseline for network operators		In-force
X Suppl. 3	2008-04-18	ITU-T X.800-X.849 series – Supplement on guidelines for implementing system and network security		In-force
X Suppl. 4	2008-09-19	ITU-T X.290-series – Supplement on generic approach to interoperability testing		In-force
X Suppl. 5	2008-09-19	ITU-T X.290 series – Supplement on interoperability testing framework and methodology		In-force
X Suppl. 6	2009-09-25	ITU-T X.1240 series – Supplement on countering spam and associated threats		In-force
X Suppl. 7	2009-02-20	ITU-T X.1250 series – Supplement on overview of identity management in the context of cybersecurity		In-force
X Suppl. 8	2010-12-17	ITU-T X.1205 – Supplement on best practices against botnet threats		In-force
X Suppl. 9	2011-09-02	ITU-T X.1205 – Supplement on guidelines for reducing malware in ICT networks		In-force
X Suppl. 10	2011-09-02	ITU-T X.1205 – Supplement on usability of network traceback		In-force
X Suppl. 11	2011-09-02	ITU-T X.1245 - Supplement on framework based on real-time blocking lists for countering VoIP spam		In-force
X Suppl. 12	2012-03-02	ITU-T X.1240 - Supplement on overall aspects of countering mobile messaging spam		In-force
X Suppl. 13	2012-09-07	ITU-T X.1051 – Supplement on Information security management users' guide for Recommendation ITU-T X.1051		Pre-published
X Suppl. 14	2012-09-07	ITU-T X.1243 - Supplement on a practical reference model for countering e-mail spam using botnet information		Pre-published
X Suppl. 15	2012-09-07	ITU-T X.800-X.849 series - Supplement on guidance for creating a national IP-based public network security centre for developing countries		Pre-published
X Suppl. 16	2012-09-07	ITU-T X.800-X.849 series – Supplement on architectural systems for security controls for preventing fraudulent activities in public carrier networks		Pre-published
X Suppl. 17	2012-09-07	ITU-T X.1143 - Supplement on threats and security objectives for enhanced web-based telecommunication services		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series Y : Global information infrastructure, Internet protocol aspects and next-generation networks				
		Global information infrastructure		In-force
		General		-
Y.100	1998-06-01	General overview of the Global Information Infrastructure standards development		In-force
Y.101	2000-03-10	Global Information Infrastructure terminology: Terms and definitions		In-force
Y.110	1998-06-12	Global Information Infrastructure principles and framework architecture		In-force
Y.120	1998-06-01	Global Information Infrastructure scenario methodology		In-force
Y.120 Annex A	1999-02-26	Examples of use		In-force
Y.120 (1998) Cor. 1	2000-11-24			In-force
Y.130	2000-03-10	Information communication architecture		In-force
Y.140	2000-11-24	Global Information Infrastructure (GII): Reference points for interconnection framework		In-force
Y.140.1	2004-03-29	Guideline for attributes and requirements for interconnection between public telecommunication network operators and service providers involved in provision of telecommunication services		In-force
		Internet protocol aspects		-
		General		In-force
Y.1001	2000-11-24	IP framework – A framework for convergence of telecommunications network and IP network technologies		In-force
		Architecture, access, network capabilities and resource management		In-force
Y.1221	2010-06-29	Traffic control and congestion control in IP-based networks		In-force
Y.1222	2007-11-13	Traffic control and congestion control in Ethernet-based networks		In-force
Y.1223	2008-07-14	Interworking guidelines for transporting assured IP flows		In-force
Y.1231	2000-11-24	IP Access Network Architecture		In-force
Y.1241	2001-03-01	Support of IP-based services using IP transfer capabilities		In-force
G.769/Y.1242	2004-06-13	Circuit multiplication equipment optimized for IP-based networks		In-force
Y.1251	2002-08-13	General architectural model for interworking		In-force
Y.1261	2002-12-14	Service requirements and architecture for voice services over Multi-Protocol Label Switching		In-force
Y.1261 (2002) Erratum 1	2004-02-04			In-force

Number	Approval date	Recommendation Title	Observation	Status
Y.1271	2004-10-14	Framework(s) on network requirements and capabilities to support emergency telecommunications over evolving circuit-switched and packet-switched networks		In-force
Y.1281	2003-09-13	Mobile IP services over MPLS		In-force
Y.1291	2004-05-07	An architectural framework for support of Quality of Service in packet networks		In-force
Y.1292	2008-09-12	Customizable IP networks (CIP): Framework for the requirements and capabilities related to the customization of IP service networks by customers		In-force
		Transport		-
G.871/Y.1301	2000-10-06	Framework of Optical Transport Network Recommendations	This Recommendation is published with the double number G.871 and Y.1301	In-force
G.7041/Y.1303	2011-04-13	Generic framing procedure		In-force
G.7041/Y.1303 (2011) Amd. 1	2012-02-13			In-force
G.7041/Y.1303 (2011) Amd. 2	2012-10-29			-
G.8080/Y.1304	2012-02-13	Architecture for the automatically switched optical network		In-force
G.7042/Y.1305	2006-03-29	Link capacity adjustment scheme (LCAS) for virtual concatenated signals		In-force
G.8010/Y.1306 (2004) Erratum 2	2007-10-25			In-force
G.8010/Y.1306 (2004) Erratum 1	2007-09-20			In-force
G.8010/Y.1306	2004-02-22	Architecture of Ethernet layer networks		In-force
G.8010/Y.1306 (2004) Amd. 1	2006-05-22			In-force
G.8010/Y.1306 (2004) Amd. 2	2010-07-29	Application of the ITU-T G.800 functional architecture to Ethernet transport and some editorial revisions.		In-force
G.8011/Y.1307	2012-10-29	Ethernet service characteristics		Pre-published
G.8011.1/Y.1307.1	2009-01-13	Ethernet private line service		In-force
G.8011.2/Y.1307.2	2009-01-13	Ethernet virtual private line service		In-force
G.8011.3/Y.1307.3	2010-02-06	Ethernet virtual private LAN service		In-force
G.8011.4/Y.1307.4	2010-02-06	Ethernet virtual private rooted multipoint service		In-force
G.8011.5/Y.1307.5	2010-02-06	Ethernet private LAN service		In-force

Number	Approval date	Recommendation Title	Observation	Status
G.8012/Y.1308	2004-08-22	Ethernet UNI and Ethernet NNI		In-force
G.8012/Y.1308 (2004) Amd. 1	2006-05-07			In-force
G.8012.1/Y.1308.1	2012-12-22	Interfaces for the ethernet transport network		-
Y.1310	2004-03-15	Transport of IP over ATM in public networks		In-force
Y.1311	2002-03-16	Network-based VPNs – Generic architecture and service requirements		In-force
Y.1311.1	2001-07-13	Network-based IP VPN over MPLS architecture		In-force
Y.1312	2003-09-13	Layer 1 Virtual Private Network generic requirements and architecture elements		In-force
Y.1313	2004-07-22	Layer 1 Virtual Private Network service and network architectures		In-force
Y.1314	2005-10-14	Virtual private network functional decomposition		In-force
Y.1315	2006-09-13	QoS support for VPN services – Framework and characteristics		In-force
X.85/Y.1321	2001-03-15	IP over SDH using LAPS		In-force
X.85/Y.1321 (2001) Amd. 1	2004-04-29	Bit-oriented method for LAPS		In-force
X.85/Y.1321 (2001) Cor. 1	2005-06-29			In-force
X.85/Y.1321 (2001) Amd. 2	2009-01-13	Additional SAPI values for encapsulated protocols		In-force
G.707/Y.1322	2007-01-09	Network node interface for the synchronous digital hierarchy (SDH)	The published text of this Recommendation includes the modifications introduced by the Amendement 1 approved on 2007-07-29	In-force
G.707/Y.1322 (2007) Amd. 1	2007-07-29		Never published, directly consolidated with ITU-T G.707/Y.1322 (01/2007)	Pre-published
G.707/Y.1322 (2007) Amd. 2	2009-11-13			In-force
X.86/Y.1323	2001-02-02	Ethernet over LAPS		In-force
X.86/Y.1323 (2001) Amd. 1	2002-04-13	Using Ethernet flow control as rate limiting		In-force
X.87/Y.1324	2003-10-29	Multiple services ring based on RPR		In-force
G.709/Y.1331	2012-02-13	Interfaces for the optical transport network	The published text of this Recommendation includes the modifications introduced by ITU-T G.709/Y.1331 (2012) Amd.1 (10/2012) and Cor.1 (10/2012).	In-force

Number	Approval date	Recommendation Title	Observation	Status
G.709/Y.1331 (2012) Cor. 1	2012-10-29		This Corrigendum was never published, its content having been included in the published Rec. ITU-T G.709/Y.1331 (2012).	In-force
G.709/Y.1331 (2012) Amd. 1	2012-10-29		This Amendment was never published, its content having been included in the published Rec. ITU-T G.709/Y.1331 (2012).	In-force
G.8040/Y.1340	2005-09-06	GFP frame mapping into Plesiochronous Digital Hierarchy (PDH)		In-force
G.8021/Y.1341	2012-05-07	Characteristics of Ethernet transport network equipment functional blocks		In-force
G.8021/Y.1341 (2012) Amd.1	2012-10-29			-
G.8021.1/Y.1341.1	2012-10-29	Types and characteristics of ethernet transport network equipment		Pre-published
G.8031/Y.1342	2011-06-22	Ethernet linear protection switching	The published version also includes the material approved in Corrigendum 1 (02/2012).	In-force
G.8031/Y.1342 (2011) Cor. 1	2012-02-13		This Corrigendum was never published separately; its contents were included in the published version of the base Recommendation approved in 06/2011.	Pre-published
G.7043/Y.1343	2004-07-22	Virtual concatenation of plesiochronous digital hierarchy (PDH) signals		In-force
G.7043/Y.1343 (2004) Amd. 1	2005-01-13			In-force
G.7043/Y.1343 (2004) Cor. 1	2006-12-14			In-force
G.8032/Y.1344	2012-02-13	Ethernet ring protection switching		In-force
G.8051/Y.1345	2009-11-13	Management aspects of the Ethernet-over-Transport (EoT) capable network element		In-force
G.8051/Y.1345 (2009) Amd. 1	2011-06-06			In-force
G.7044/Y.1347	2011-10-29	Hitless adjustment of ODUflex(GFP)	The published text of this Recommendation includes the modifications introduced by ITU-T G.7044/Y.1347 (2011) Amd.1 (02/2012).	In-force
G.7044/Y.1347 (2011) Amd. 1	2012-02-13		This Amendment was never published, its content having been included in the published Rec. ITU-T G.7044/Y.1347 (2011).	Pre-published

Number	Approval date	Recommendation Title	Observation	Status
G.780/Y.1351	2010-07-29	Terms and definitions for synchronous digital hierarchy (SDH) networks		In-force
G.870/Y.1352	2012-10-29	Terms and definitions for optical transport networks		Pre-published
G.8081/Y.1353	2012-02-13	Terms and definitions for automatically switched optical networks		In-force
G.8001/Y.1354	2012-10-29	Terms and definitions for Ethernet frames over transport		Pre-published
G.8101/Y.1355	2012-10-29	Terms and definitions for MPLS transport profile		-
G.8261/Y.1361	2008-04-29	Timing and synchronization aspects in packet networks		In-force
G.8261/Y.1361 (2008) Amd. 1	2010-07-29	Network jitter limits for the synchronous Ethernet equipment clock interface and other clarifications		In-force
G.8261.1/Y.1361.1	2012-02-13	Packet delay variation network limits applicable to packet-based methods (Frequency synchronization)		In-force
G.8262/Y.1362	2010-07-29	Timing characteristics of a synchronous Ethernet equipment slave clock		In-force
G.8262/Y.1362 (2010) Amd. 1	2012-02-13			In-force
G.8262/Y.1362 (2010) Amd. 2	2012-10-29			In-force
G.8263/Y.1363	2012-02-13	Timing characteristics of packet-based equipment clocks		In-force
G.8264/Y.1364	2008-10-29	Distribution of timing information through packet networks		In-force
G.8264/Y.1364 (2008) Cor. 1	2009-11-13			In-force
G.8264/Y.1364 (2008) Amd. 1	2010-09-22	Use of synchronous Ethernet in a multi-operator context		In-force
G.8264/Y.1364 (2008) Cor. 2	2012-02-13			In-force
G.8264/Y.1364 (2008) Amd. 2	2012-02-13			In-force
G.8265/Y.1365	2010-10-07	Architecture and requirements for packet-based frequency delivery		In-force
G.8265.1/Y.1365.1	2010-10-07	Precision time protocol telecom profile for frequency synchronization		In-force
G.8265.1/Y.1365.1 (2010) Amd. 1	2011-04-13			In-force

Number	Approval date	Recommendation Title	Observation	Status
G.8265.1/Y.1365.1 (2010) Amd. 2	2012-10-29			Pre-published
G.8271/Y.1366	2012-02-13	Time and phase synchronization aspects of packet networks		In-force
G.8272/Y.1367	2012-10-29	Timing characteristics of primary reference time clocks		Pre-published
G.8110/Y.1370	2005-01-13	MPLS layer network architecture		In-force
G.8110.1/Y.1370.1 (2011) Erratum 1	2012-09-06			In-force
G.8110.1/Y.1370.1	2011-12-16	Architecture of the Multi-Protocol Label Switching transport profile layer network	This edition of ITU-T G.8110.1/Y.1370.1 includes the changes introduced by Erratum 1 (09/2012).	In-force
G.8112/Y.1371	2012-10-29	Interfaces for the MPLS Transport Profile (MPLS-TP) layer network		-
G.8113.1/Y.1372.1	2012-11-20	Operations, administration and maintenance mechanism for MPLS-TP in packet transport networks		Pre-published
G.8113.2/Y.1372.2	2012-11-20	Operations, administration and maintenance mechanisms for MPLS-TP networks using the tools defined for MPLS		Pre-published
G.8151/Y.1374	2012-07-22	Management aspects of the MPLS-TP network element		Pre-published
G.8151/Y.1374 (2012) Amd. 1	2012-10-29			Pre-published
G.8121/Y.1381	2012-09-21	Characteristics of MPLS-TP network equipment functional blocks		Pre-published
G.8121/Y.1381 (2012) Amd. 1	2012-12-22			-
G.8131/Y.1382	2007-02-06	Linear protection switching for transport MPLS (T-MPLS) networks	The next update of this Recommendation will only describe MPLS-TP and will include normative references to the MPLS-TP RFCs under development to meet ITU-T transport requirements	In-force
G.8131/Y.1382 (2007) Amd. 1	2007-09-22			In-force
G.8601/Y.1391	2006-06-06	Architecture of service management in multi-bearer, multi-carrier environment		In-force
		Interworking		In-force
Y.1401	2008-02-29	Principles of interworking		In-force

Number	Approval date	Recommendation Title	Observation	Status
X.371/Y.1402	2001-02-02	General arrangements for interworking between Public Data Networks and the Internet		In-force
Y.1411	2003-02-22	ATM-MPLS network interworking – Cell mode user plane interworking		In-force
Y.1412	2003-11-06	ATM-MPLS network interworking – Frame mode user plane interworking		In-force
Y.1413	2004-03-15	TDM-MPLS network interworking – User plane interworking		In-force
Y.1413 (2004) Cor. 1	2005-10-14			In-force
Y.1414	2004-07-29	Voice services – MPLS network interworking		In-force
Y.1415	2005-02-13	Ethernet-MPLS network interworking – User plane interworking		In-force
Y.1415 (2005) Amd. 1	2007-04-27	New Appendix II – Use of Ethernet-MPLS interworking for transport of IP/MPLS services		In-force
Y.1416/Q.3150	2007-06-13	Use of virtual trunks for ATM/MPLS client/server control plane interworking		In-force
Y.1417/Q.3151	2007-06-13	ATM and frame relay/MPLS control plane interworking: Client-server		In-force
Y.1418	2008-02-29	Pseudowire layer network		In-force
G.799.1/Y.1451.1	2004-06-13	Functionality and interface specifications for GSTN transport network equipment for interconnecting GSTN and IP networks		In-force
Y.1452	2006-03-01	Voice trunking over IP networks		In-force
Y.1453	2006-03-29	TDM-IP interworking – User plane interworking		In-force
Y.1454	2006-12-14	Tandem free operation (TFO) – IP network interworking – User plane interworking		In-force
		Quality of service and network performance		-
G.820/I.351/Y.1501	2004-07-29	Relationships among ISDN, IP-based network and physical layer performance Recommendations	Formerly ITU-T Rec. I.351/Y.801/Y.1501	In-force
Y.1530	2007-11-13	Call processing performance for voice service in hybrid IP networks		In-force
Y.1531	2007-11-13	SIP-based call processing performance		In-force
Y.1540	2011-03-01	Internet protocol data communication service – IP packet transfer and availability performance parameters		In-force
Y.1541	2011-12-14	Network performance objectives for IP-based services		In-force
Y.1542	2010-06-29	Framework for achieving end-to-end IP performance objectives		In-force
Y.1543	2007-11-13	Measurements in IP networks for inter-domain performance assessment		In-force
Y.1544	2008-07-14	Multicast IP performance parameters		In-force
Y.1560	2003-09-13	Parameters for TCP connection performance in the presence of middleboxes		In-force
Y.1561	2004-05-07	Performance and availability parameters for MPLS networks		In-force

Number	Approval date	Recommendation Title	Observation	Status
Y.1562	2007-03-01	Framework for higher-layer protocol performance parameters and their measurement		In-force
Y.1563	2009-01-13	Ethernet frame transfer and availability performance		In-force
Y.1563 (2009) Amd.1	2009-12-14	New Annex B - Terminology for consecutive severely errored seconds in Ethernet services		In-force
Y.1564	2011-03-01	Ethernet service activation test methodology		In-force
Y.1565	2011-12-14	Home network performance parameters		In-force
Y.1566	2012-07-14	Quality of service mapping and interconnection between Ethernet, Internet protocol and multiprotocol label switching networks		In-force
		Operation, administration and maintenance		-
G.7710/Y.1701	2012-02-13	Common equipment management function requirements		In-force
G.7712/Y.1703	2010-09-06	Architecture and specification of data communication network		In-force
G.7713/Y.1704	2009-11-13	Distributed call and connection management (DCM)		In-force
G.7713.1/Y.1704.1	2003-03-16	Distributed Call and Connection Management (DCM) based on PNNI		In-force
G.7713.2/Y.1704.2	2003-03-16	Distributed Call and Connection Management: Signalling mechanism using GMPLS RSVP-TE		In-force
G.7713.3/Y.1704.3	2003-03-16	Distributed Call and Connection Management: Signalling mechanism using GMPLS CR-LDP		In-force
G.7714/Y.1705	2005-08-22	Generalized automatic discovery for transport entities		In-force
G.7714/Y.1705 (2005) Amd. 1	2012-02-13			In-force
G.7714.1/Y.1705.1	2010-09-06	Protocol for automatic discovery in SDH and OTN networks		In-force
G.7715/Y.1706	2002-06-13	Architecture and requirements for routing in the automatically switched optical networks		In-force
G.7715/Y.1706 (2002) Amd. 1	2007-02-06			In-force
G.7715.1/Y.1706.1	2004-02-22	ASON routing architecture and requirements for link state protocols		In-force
G.7715.2/Y.1706.2	2007-02-06	ASON routing architecture and requirements for remote route query		In-force
G.7716/Y.1707	2010-01-13	Architecture of control plane operations		In-force
G.7718/Y.1709	2010-07-29	Framework for ASON management		In-force
G.7718.1/Y.1709.1	2006-12-14	Protocol-neutral management information model for the control plane view		In-force

Number	Approval date	Recommendation Title	Observation	Status
Y.1710	2002-11-08	Requirements for Operation & Maintenance functionality in MPLS networks		In-force
Y.1711	2004-02-12	Operation & Maintenance mechanism for MPLS networks		In-force
Y.1711 (2004) Cor. 1	2005-02-13			In-force
Y.1711 (2004) Amd. 1	2005-10-14	New function type codes		In-force
Y.1712	2004-01-10	OAM functionality for ATM-MPLS interworking		In-force
Y.1713	2004-03-15	Misbranching detection for MPLS networks		In-force
Y.1714	2009-01-13	MPLS management and OAM framework		In-force
Y.1720	2006-12-14	Protection switching for MPLS networks		In-force
Y.1720 (2006) Amd. 1	2008-02-22			In-force
Y.1730	2004-01-10	Requirements for OAM functions in Ethernet-based networks and Ethernet services		In-force
G.8013/Y.1731	2011-07-22	OAM functions and mechanisms for Ethernet based networks		In-force
G.8013/Y.1731 (2011) Cor. 1	2011-10-29			In-force
G.8013/Y.1731 (2011) Amd. 1	2012-05-07			In-force
		IPTV over NGN		-
Y.1901	2009-01-23	Requirements for the support of IPTV services		In-force
Y.1902	2011-04-22	Framework for multicast-based IPTV content delivery		In-force
Y.1910	2008-09-12	IPTV functional architecture		In-force
Y.1911	2010-04-30	IPTV services and nomadism: Scenarios and functional architecture for unicast delivery		In-force
Y.1920	2012-07-29	Guidelines for the use of traffic management mechanisms in support of IPTV services		Pre-published
Y.1991	2010-03-16	Terms and definitions for IPTV		In-force
		Next Generation Networks		In-force
		Frameworks and functional architecture models		In-force
Y.2001	2004-12-17	General overview of NGN		In-force
Y.2002	2009-10-29	Overview of ubiquitous networking and of its support in NGN		In-force
Y.2006	2008-02-29	Description of capability set 1 of NGN release 1		In-force
Y.2007	2010-01-29	NGN capability set 2		In-force
Y.2011	2004-10-07	General principles and general reference model for Next Generation Networks		In-force
Y.2012	2010-04-30	Functional requirements and architecture of next generation networks		In-force

Number	Approval date	Recommendation Title	Observation	Status
Y.2013	2006-12-14	Converged services framework functional requirements and architecture		In-force
Y.2014	2010-03-16	Network attachment control functions in next generation networks		In-force
Y.2015	2009-01-23	General requirements for ID/locator separation in NGN		In-force
Y.2016	2009-08-22	Functional requirements and architecture of the NGN for applications and services using tag-based identification		In-force
Y.2017	2009-09-12	Multicast functions in next generation networks		In-force
Y.2018	2009-09-12	Mobility management and control framework and architecture within the NGN transport stratum		In-force
Y.2019	2010-09-06	Content delivery functional architecture in NGN		In-force
Y.2020	2011-05-20	Open service environment functional architecture for next generation networks		In-force
Y.2021	2006-09-13	IMS for Next Generation Networks		In-force
Y.2022	2011-08-06	Functional architecture for the support of host-based separation of node identifiers and routing locators in next generation networks		In-force
Y.2023	2012-04-22	Functional requirements and architecture for the next generation network multimedia communication centre service		In-force
Y.2024	2012-07-29	Functional requirements and architecture of the web service component in next generation networks		In-force
Y.2025	2012-07-29	Functional architecture of next generation network service integration and delivery environment		Pre-published
Y.2026	2012-07-29	Functional requirements and architecture of the next generation network for support of ubiquitous sensor network applications and services		In-force
Y.2027	2012-07-29	Functional architecture of Multi-connection		Pre-published
Y.2031	2006-09-13	PSTN/ISDN emulation architecture		In-force
Y.2051	2008-02-29	General overview of IPv6-based NGN		In-force
Y.2052	2008-02-29	Framework of multi-homing in IPv6-based NGN		In-force
Y.2053	2008-02-29	Functional requirements for IPv6 migration in NGN		In-force
Y.2054	2008-02-29	Framework to support signalling for IPv6-based NGN		In-force
Y.2055	2011-03-16	Framework of object mapping using IPv6 in next generation networks		In-force
Y.2056	2011-08-06	Framework of vertical multihoming in IPv6-based next generation networks		In-force
Y.2057	2011-11-29	Framework of node identifier and routing locator separation in IPv6-based next generation networks		In-force

Number	Approval date	Recommendation Title	Observation	Status
Y.2058	2011-11-29	Roadmap for IPv6 migration from the perspective of the operators of next generation networks		In-force
Y.2059	2012-07-29	Functional requirements for accessing IPv6-based next generation networks		In-force
Y.2060	2012-06-15	Overview of the Internet of things		In-force
Y.2061	2012-06-15	Requirements for the support of machine-oriented communication applications in the next generation network environment		In-force
Y.2062	2012-03-29	Framework of object-to-object communication for ubiquitous networking in next generation networks		In-force
Y.2063	2012-07-29	Framework of the web of things		Pre-published
Y.2069	2012-07-29	Terms and definitions for the Internet of things		In-force
Y.2080	2012-06-15	Functional architecture for distributed service networking		In-force
Y.2081	2012-07-29	Distributed service networking traffic optimization control functions		In-force
Y.2091	2011-03-16	Terms and definitions for next generation networks		In-force
		Quality of Service and performance		In-force
Y.2111	2011-11-29	Resource and admission control functions in next generation networks		In-force
Y.2112	2007-06-13	A QoS control architecture for Ethernet-based IP access networks		In-force
Y.2113	2009-01-23	Ethernet QoS control for next generation networks		In-force
Y.2121	2008-01-25	Requirements for the support of flow-state-aware transport technology in NGN		In-force
Y.2122	2009-06-29	Flow aggregate information exchange functions in NGN		In-force
Y.2122 (2009) Amd. 1	2011-11-29	Information model		In-force
Y.2171	2006-09-13	Admission control priority levels in Next Generation Networks		In-force
Y.2172	2007-06-13	Service restoration priority levels in Next Generation Networks		In-force
Y.2173	2008-09-12	Management of performance measurement for NGN		In-force
Y.2174	2008-06-29	Distributed RACF architecture for MPLS networks		In-force
Y.2175	2008-11-13	Centralized RACF architecture for MPLS core networks		In-force
		Service aspects: Service capabilities and service architecture		-
Y.2201	2009-09-12	Requirements and capabilities for ITU-T NGN		In-force
Y.2205	2011-05-20	Next Generation Networks – Emergency telecommunications – Technical considerations		In-force

Number	Approval date	Recommendation Title	Observation	Status
Y.2206	2010-04-30	Requirements for distributed service networking capabilities		In-force
Y.2211	2007-10-07	IMS-based real-time conversational multimedia services over NGN		In-force
Y.2212	2008-02-29	Requirements of managed delivery services		In-force
Y.2213	2008-09-12	NGN service requirements and capabilities for network aspects of applications and services using tag-based identification		In-force
Y.2214	2009-05-22	Service requirements and functional models for customized multimedia ring services		In-force
Y.2215	2009-06-29	Requirements and framework for the support of VPN services in NGN, including the mobile environment		In-force
Y.2216	2010-03-16	NGN capability requirements to support the multimedia communication centre service		In-force
Y.2221	2010-01-13	Requirements for support of ubiquitous sensor network (USN) applications and services in the NGN environment		In-force
Y.2232	2008-01-25	NGN convergence service model and scenario using web services		In-force
Y.2233	2010-06-13	Requirements and framework allowing accounting and charging capabilities in NGN		In-force
Y.2234	2008-09-12	Open service environment capabilities for NGN		In-force
Y.2235	2008-11-13	Converged web-browsing service scenarios in NGN		In-force
Y.2236	2009-09-12	Framework for NGN support of multicast-based services		In-force
Y.2237	2010-01-29	Functional model and service scenarios for QoS-enabled mobile VoIP service		In-force
Y.2240	2011-04-22	Requirements and capabilities for next generation network service integration and delivery environment		In-force
		Service aspects: Interoperability of services and networks in NGN		-
Y.2251	2011-03-16	Multi-connection requirements		In-force
Y.2252	2012-07-29	Identification and configuration of resources for multi-connection		Pre-published
Y.2261	2006-09-13	PSTN/ISDN evolution to NGN		In-force
Y.2262	2006-12-14	PSTN/ISDN emulation and simulation		In-force
Y.2271 (2006) Erratum 1	2007-03-07		Applies to English version only	In-force
Y.2271	2006-09-13	Call server-based PSTN/ISDN emulation		In-force
Y.2281	2011-01-28	Framework of networked vehicle services and applications using NGN		In-force
Y.2291	2011-01-28	Architectural overview of next generation home networks		In-force
		Network management		-
M.3060/Y.2401	2006-03-22	Principles for the Management of Next Generation Networks		In-force

Number	Approval date	Recommendation Title	Observation	Status
		Packet-based Networks		-
Y.2601	2006-12-14	Fundamental characteristics and requirements of future packet based networks		In-force
Y.2611	2006-12-14	High-level architecture of future packet-based networks		In-force
Y.2612	2009-01-23	Generic requirements and framework of addressing, routing and forwarding in future, packet-based networks		In-force
Y.2613	2010-03-16	General technical architecture for public packet telecommunication data network		In-force
Y.2614	2011-08-06	Network reliability in public telecommunication data networks		In-force
Y.2615	2012-07-29	Routing mechanisms in public packet telecommunication data networks		Pre-published
Y.2621	2011-08-06	Requirements for an independent, scalable control plane in future, packet-based networks		In-force
Y.2622	2012-07-29	Architecture of an independent scalable control plane in future packet based networks		In-force
		Security		In-force
Y.2701	2007-04-27	Security requirements for NGN release 1		In-force
Y.2702	2008-09-12	Authentication and authorization requirements for NGN release 1		In-force
Y.2703	2009-01-23	The application of AAA service in NGN		In-force
Y.2704	2010-01-29	Security mechanisms and procedures for NGN		In-force
Y.2720	2009-01-23	NGN identity management framework		In-force
Y.2721	2010-09-16	NGN identity management requirements and use cases		In-force
Y.2722	2011-01-28	NGN identity management mechanisms		In-force
Y.2740	2011-01-28	Security requirements for mobile remote financial transactions in next generation networks		In-force
Y.2741	2011-01-28	Architecture of secure mobile financial transactions in next generation networks		In-force
Y.2760	2011-05-20	Mobility security framework in NGN		In-force
Y.2770	2012-11-20	Requirements for deep packet inspection in next generation networks		Pre-published
		Generalized mobility		-
Q.1706/Y.2801	2006-11-06	Mobility management requirements for NGN		In-force
Q.1762/Y.2802	2007-09-21	Fixed-mobile convergence general requirements		In-force
Q.1763/Y.2803	2007-10-29	FMC service using legacy PSTN or ISDN as the fixed access network for mobile network users		In-force
Q.1707/Y.2804	2008-02-29	Generic framework of mobility management for next generation networks		In-force

Number	Approval date	Recommendation Title	Observation	Status
Q.1708/Y.2805	2008-10-14	Framework of location management for NGN		In-force
Q.1709/Y.2806	2008-10-14	Framework of handover control for NGN		In-force
Y.2807	2009-01-23	MPLS-based mobility capabilities in NGN		In-force
Y.2808	2009-06-29	Fixed mobile convergence with a common IMS session control domain		In-force
Y.2809	2011-11-29	Framework of mobility management in the service stratum for next generation networks		In-force
Y.2810	2012-03-29	Mobility management framework for IP multicast communications in next generation networks		In-force
Y.2811	2012-07-29	Framework of the mobile virtual private network service in next generation networks		Pre-published
Y.2812	2012-07-29	Mobility management for interworking between WiMAX and UMTS		Pre-published
		Carrier grade open environment		-
Y.2901	2006-12-14	The carrier grade open environment reference model		In-force
Y.2902	2008-11-13	Carrier grade open environment components		In-force
		Future networks		-
Y.3001	2011-05-20	Future networks: Objectives and design goals		In-force
Y.3011	2012-01-13	Framework of network virtualization for future networks		In-force
Y.3021	2012-01-13	Framework of energy saving for future networks		In-force
Y.3031	2012-05-07	Identification framework in future networks		In-force
		Supplements to the Y-series Recommendations		In-force
Y Suppl. 1	2006-07-28	ITU-T Y.2000 series – Supplement on NGN release 1 scope		In-force
Y Suppl. 2	2006-07-28	ITU-T Y.2012 – Supplement on session/border control (S/BC) functions	Approved and published as Y.2012 Suppl.1, renumbered Y Suppl.2 without further modifications	In-force
Y Suppl. 3	2008-01-25	ITU-T Y.2000 series – Supplement on service scenarios for convergence services in a multiple network and application service provider environment		In-force
Y Suppl. 4	2008-01-25	ITU-T Y.1300 series – Supplement on transport requirements for T-MPLS OAM and considerations for the application of IETF MPLS technology		In-force
Y Suppl. 5	2008-05-22	ITU-T Y.1900-series – Supplement on IPTV service use cases		In-force
Y Suppl. 6	2008-09-12	ITU-T Y.2000-series – Supplement on the use of DSL-based systems in next generation networks		In-force
Y Suppl. 7	2008-09-12	ITU-T Y.2000-series – Supplement on NGN release 2 scope		In-force
Y Suppl. 8	2010-01-29	ITU-T Y.2000-series – Supplement on a survey of global ICT forums and consortia		In-force

Number	Approval date	Recommendation Title	Observation	Status
Y Suppl. 9	2010-01-29	ITU-T Y.2000-series – Supplement on multi-connection scenarios		In-force
Y Suppl. 10	2010-01-29	ITU-T Y.2000-series – Supplement on distributed service network (DSN) use cases		In-force
Y Suppl. 11	2010-01-29	ITU-T Y.2600-series – Supplement on scenarios for independent scalable control plane (iSCP) in future packet-based networks (FPBN)		In-force
Y Suppl. 12	2010-04-30	ITU-T Y.2720 – Supplement on NGN identity management mechanisms		In-force
Y Suppl. 13	2011-01-28	ITU-T Y.2000-series - Supplement on scenarios for the evolution of NGN network capabilities to include information storage, processing and delivery		In-force
Y Suppl. 14	2011-01-28	ITU-T Y.2000-series – Supplementary service scenarios for fixed-mobile convergence		In-force
Y Suppl. 15	2011-10-21	ITU-T Y.2000-series – Profile-based application adaptation service using next generation networks		In-force
Y Suppl. 16	2012-02-17	ITU-T Y.1900-series – Supplement on guidelines on deployment of IP multicast for IPTV content delivery		In-force
Y Suppl. 17	2012-02-17	ITU-T Y.2200-series - Functional model of a service overlay network framework which uses the next generation network		In-force
Y Suppl. 18	2012-06-15	ITU-T Y.2700-series - Supplement on next generation network certificate management		In-force
Y Suppl. 19	2012-06-15	ITU-T Y.2200-series - Supplement on the risk analysis service in next generation networks		In-force
Y Suppl. 20	2012-06-15	ITU-T Y.1900-series - Supplement on scenarios and use cases of mobile IPTV		In-force

Number	Approval date	Recommendation Title	Observation	Status
Series Z : Languages and general software aspects for telecommunication systems				
		Formal description techniques (FDT)		In-force
		Specification and Description Language (SDL)		In-force
Z.100	2011-12-22	Specification and Description Language - Overview of SDL-2010		In-force
Z.101	2011-12-22	Specification and Description Language - Basic SDL-2010		In-force
Z.102	2011-12-22	Specification and Description Language - Comprehensive SDL-2010		In-force
Z.103	2011-12-22	Specification and Description Language - Shorthand notation and annotation in SDL-2010		In-force
Z.104	2011-12-22	Specification and Description Language - Data and action language in SDL-2010		In-force
Z.104 (2011) Amd. 1	2012-10-14	Replacement Annex C on language binding		Pre-published
Z.105	2011-12-22	Specification and Description Language - SDL-2010 combined with ASN.1 modules		In-force
Z.106	2011-12-22	Specification and Description Language - Common interchange format for SDL-2010		In-force
Z.107	2012-04-29	Specification and Description Language - Object-oriented data in SDL-2010		In-force
Z.109	2012-04-29	Specification and Description Language - Unified modeling language profile for SDL-2010		In-force
Z.109 (2012) Amd. 1	2012-11-29	New Appendix 1 - Concrete syntax		Pre-published
		Application of formal description techniques		-
Z.110	2008-11-13	Criteria for use of formal description techniques by ITU-T		In-force
Z.111	2008-11-13	Notations and guidelines for the definition of ITU-T languages		In-force
Z.119	2007-02-13	Guidelines for UML profile design		In-force
		Message Sequence Chart (MSC)		-
Z.120 Annex B	1998-04-01	Formal semantics of message sequence charts		In-force
Z.120	2011-02-13	Message Sequence Chart (MSC)		In-force
Z.121	2003-02-13	Specification and Description Language (SDL) data binding to Message Sequence Charts (MSC)		In-force
		User Requirements Notation (URN)		In-force
Z.150	2011-02-13	User Requirements Notation (URN) – Language requirements and framework		In-force
Z.151	2012-10-14	User Requirements Notation (URN) - Language definition		Pre-published
		Testing and Test Control Notation (TTCN)		-
Z.161	2012-05-29	Testing and Test Control Notation version 3: TTCN-3 core language		In-force

Number	Approval date	Recommendation Title	Observation	Status
Z.161.1	2012-05-29	Testing and Test Control Notation version 3: TTCN-3 language extensions: Support of interfaces with continuous signals		In-force
Z.162	2007-11-13	Testing and Test Control Notation version 3: TTCN-3 tabular presentation format (TFT)	Formerly Z.141	In-force
Z.163	2007-11-13	Testing and Test Control Notation version 3: TTCN-3 graphical presentation format (GFT)	Formerly Z.142	In-force
Z.164	2012-05-29	Testing and Test Control Notation version 3: TTCN-3 operational semantics		In-force
Z.165	2012-05-29	Testing and Test Control Notation version 3: TTCN-3 runtime interface (TRI)		In-force
Z.165.1	2012-05-29	Testing and Test Control Notation version 3: TTCN-3 extension package: Extended TRI		In-force
Z.166	2012-05-29	Testing and Test Control Notation version 3: TTCN-3 control interface (TCI)		In-force
Z.167	2012-05-29	Testing and Test Control Notation version 3: TTCN-3 mapping from ASN.1		In-force
Z.168	2012-05-29	Testing and Test Control Notation version 3: TTCN-3 mapping from CORBA IDL		In-force
Z.169	2012-05-29	Testing and Test Control Notation version 3: TTCN-3 mapping from XML data definition		In-force
Z.170	2012-05-29	Testing and Test Control Notation version 3: TTCN-3 documentation comment specification		In-force
		Programming languages		-
		CHILL: The ITU-T high level language		In-force
Z.200	1999-11-19	CHILL – The ITU-T Programming Language		In-force
		Man-machine language		In-force
		General principles		In-force
Z.301	1988-11-25	Introduction to the CCITT man-machine language		In-force
Z.302	1988-11-25	The meta-language for describing MML syntax and dialogue procedures		In-force
		Basic syntax and dialogue procedures		In-force
Z.311	1988-11-25	Introduction to syntax and dialogue procedures		In-force
Z.312	1988-11-25	Basic format layout		In-force
Z.314	1988-11-25	The character set and basic elements		In-force
Z.315	1988-11-25	Input (command) language syntax specification		In-force
Z.316	1988-11-25	Output language syntax specification		In-force
Z.317	1988-11-25	Man-machine dialogue procedures		In-force
		Extended MML for visual display terminals		In-force
Z.321	1988-11-25	Introduction to the extended MML for visual display terminals		In-force
Z.322	1988-11-25	Capabilities of visual display terminals		In-force
E.333/Z.323	1988-11-25	Man-machine interaction	This Recommendation is also included but not published in E series under alias number E.333	In-force
		Specification of the man-machine interface		-

Number	Approval date	Recommendation Title	Observation	Status
Z.331	1988-11-25	Introduction to the specification of the man-machine interface		In-force
Z.332	1988-11-25	Methodology for the specification of the man-machine interface – General working procedure		In-force
Z.333	1988-11-25	Methodology for the specification of the man-machine interface – Tools and methods		In-force
Z.334	1988-11-25	Subscriber administration		In-force
Z.335	1988-11-25	Routing administration		In-force
Z.336	1988-11-25	Traffic measurement administration	This Recommendation is a revision of Annex A to Z.333 (1984)	In-force
Z.337	1988-11-25	Network management administration		In-force
Z.341	1988-11-25	Glossary of terms		In-force
		Data-oriented human-machine interfaces		In-force
Z.351	1993-03-12	Data oriented human-machine interface specification technique – Introduction		In-force
Z.352	1993-03-12	Data oriented human-machine interface specification technique – Scope, approach and reference model		In-force
		Human-machine interfaces for the management of telecommunications networks		In-force
Z.360	1997-05-06	Graphic GDMO: A graphic notation for the Guidelines for the Definition of Managed Objects		In-force
Z.361	1999-02-12	Design guidelines for Human-Computer Interfaces (HCI) for the management of telecommunications networks		In-force
Z.371	2005-04-13	Graphic information for telecommunication management objects		In-force
Z.372	2005-04-13	Templates for telecommunications human-machine interfaces		In-force
		Quality		-
		Quality of telecommunication software		-
Z.400	1993-03-12	Structure and format of quality manuals for telecommunications software		In-force
		Quality aspects of protocol-related Recommendations		In-force
Z.450	2008-11-13	Quality aspects of protocol-related Recommendations		In-force
		Methods		In-force
		Methods for validation and testing		In-force
Z.500	1997-05-06	Framework on formal methods in conformance testing		In-force
		Middleware		In-force
		Processing environment architectures		-
Z.600	2000-11-24	Distributed processing environment architecture		In-force
Z.601	2007-02-13	Data architecture of one software system		In-force
		Supplements to the Z-series		In-force

Number	Approval date	Recommendation Title	Observation	Status
Z Suppl. 1	1997-05-06	ITU-T Z.100 series – Supplement on SDL+ methodology: use of MSC and SDL (with ASN.1)	Published as Supplement 1 to Rec. ITU-T Z.100, renumbered as Z-series Supplement 1 on 2009-03-03	In-force