Series A: Organization of the work of ITU-T

Number	Approved in	Title	Status
A.1	10-2000	Work Methods for Study Groups of the ITU Telecommunication Standardization Sector (ITU-T)	
A.2	10-2000	Presentation of contributions relative to the study of Questions assigned to the ITU-T	
A.4	10-2000	Communication process between ITU-T and Forums and Consortia	
A.5	11-2001	Generic procedures for including references to documents of other organizations in ITU-T Recommendations	Pre-published.
A.6	10-2000	Cooperation and exchange of information between ITU-T and national and regional standards development organizations	
A.7	10-2000	Focus Groups: Working methods and procedures	
A.8	10-2000	Alternative approval process for new and revised Recommendations	
A.9	10-2000	Provisional working procedures for the Special Study Group on IMT-2000 and Beyond	
A.11	10-2000	Publication of ITU-T Recommendations and WTSA proceedings	
A.12	10-2000	Identification and layout of ITU-T Recommendations	
A.13	10-2000	Supplements to ITU-T Recommendations	
A.23	10-2000	Collaboration with the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) on information technology	
A.Sup1	09-1998	Guidelines on quality aspects of protocol related Recommendations	
A.Sup2	06-2000	Guidelines on interoperability experiments	
A.Sup3	11-2001	IETF and ITU-T collaboration guidelines	Pre-published.

Series B: Means of expression: definitions, symbols, classification

Number	Approved in	Title	Status
B.11	11-1988	Legal time - use of the term UTC	
B.12	11-1988	Use of the decibel and the neper in telecommunications	
B.17	11-1988	Adoption of the CCITT Specification and description Language (SDL)	

Series C: General telecommunication statistics

Number	Approved in	Title	Status
C.3	03-1993	Instructions for international telecommunication services	

Series D: General tariff principles

Number	Approved in	Title	Status
D.000	10-2000	Terms and definitions for the Series-D Recommendations	
D.1	07-1991	General principles for the lease of international (continental and intercontinental) private telecommunication circuits and networks	
D.3	06-1992	Principles for the lease of analogue international circuits for private service	
D.4	12-1998	Special conditions for the lease of international (continental and intercontinental) sound - and television-programme circuits for private service	
D.5	11-1988	Costs and value of services rendered as factors in the fixing of rates	
D.7	01-1992	Concept and implementation of "one-stop shopping" for international private leased telecommunication circuits	
D.8	11-1988	Special conditions for the lease of international end-to-end digital circuits for private service	
D.9	11-1988	Private leasing of transmitters or receivers	
D.10	07-1991	General tariff principles for international public data communication services	
D.11	03-1991	Special tariff principles for international packet-switched public data communication services by means of the virtual call facility	
D.12	11-1988	Measurement unit for charging by volume in the international packet -switched data communication service	
D.13	11-1988	Guiding principles to govern the apportionment of accounting rates in international packet-switched public data communication relations	
D.15	11-1988	General charging and accounting principles for non-voice services provided by interworking between public data networks	
D.20	11-1988	Special tariff principles for the international circuit-switched public data communication services	
D.21	11-1988	Special tariff principles for short transaction transmissions on the international packet-switched public data networks using the fast select facility with restriction	
D.30	11-1988	Implementation of reverse charging on international public data communication services	
D.35	01-1992	General charging principles in the international public message handling services and associated applications	
D.36	03-1995	General accounting principles applicable to message handling services and associated applications	
D.37	07-1996	Accounting and settlement principles applicable to the provision of public directory services between interconnected Directory Management Domains	
D.40	06-1992	General tariff principles applicable to telegrams exchanged in the international public telegram service	
D.41	11-1988	Introduction of accounting rates by zones in the international public telegram service	
D.42	11-1988	Accounting in the international public telegram service	
D.43	11-1988	Partial and total refund of charges in the international public telegram service *A Corrigendum was indicated in 02/1990 for the English version.*	
D.45	06-1992	Charging and accounting principles for the international telemessage service	
D.50	10-2000	International Internet Connection	
D.60	07-1991	Guiding principles to govern the apportionment of accounting rates in intercontinental telex relations	
D.61	11-1988	Charging and accounting provisions relating to the measurement of the chargeable duration of a telex call	
D.65	11-1988	General charging and accounting principles in the international telex service for multi-address messages via store-and-forward units	
D.67	03-1995	Charging and accounting in the international telex service	
D.70	06-1992	General tariff principles for the international public facsimile service between public bureaux (bureaufax service)	
D.71	06-1992	General tariff principles for the public facsimile service between subscriber stations (telefax service)	
D.73	06-1992	General tariff and international accounting principles for interworking between the international bureaufax and telefax services	
D.79	07-1991	Charging and accounting principles for the international videotex service	
D.80	11-1988	Accounting and refunds for phototelegrams	
D.81	11-1988	Accounting and refunds for private phototelegraph calls	
D.83	11-1988	Rates for phototelegrams and private phototelegraph calls	
D.85	11-1988	Charging for international phototelegraph calls to multiple destinations	
D.90	03-1995	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. Covering note, May 1999: Spanish only*	
D.91	07-1996	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.*	
		Charging and accounting in the international land mobile telephone service (provided via cellular	

D.93	04-2000	radio systems)
D.94	01-1992	Charging, billing and accounting principles for international aeronautical mobile service, and international aeronautical mobile-satellite service
D.95	10-1992	Charging, billing, accounting and refunds in the data messaging land/maritime mobile-satellite service
D.96	12-1999	Charging, billing, accounting and settlement principles for Global Mobile Personal Communications by Satellite (GMPCS) for the international telephone service
D.100	11-1988	Charging for international calls in manual or semi-automatic operating
D.103	06-1992	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*
D.104	11-1988	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*
D.105	11-1988	Charging for calls from or to a public call office
D.106	11-1988	Introduction of reduced rates during periods of light traffic in international telephone service
D.110	06-1992	Charging and accounting for conference calls
D.115	10-1996	Tariff principles and accounting for the International Freephone Service (IFS)
D.116	10-1996	Charging and accounting principles relating to the home country direct telephone service
D.117	06-1999	Charging and accounting principles for the international premium rate service (IPRS)
D.120	07-1996	Charging and accounting principles for the international telecommunication charge card service
D.140	10-2000	Accounting rate principles for international telephone services
D.150	06-1999	New system for accounting in international telephony
D.151	11-1988	Old system for accounting in international telephony *A correction was introduced in a Covering note by June 1990*
D.155	07-1996	Guiding principles governing the apportionment of accounting rates in intercontinental telephone relations
D.160	11-1988	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
D.170	06-1998	Monthly telephone and telex accounts
D.171	11-1988	Adjustments and refunds in the international telephone service
D.172	11-1988	Accounting for calls circulated over international routes for which accounting rates have not been established
D.173	11-1988	Defaulting subscribers
D.174	11-1988	Conventional transmission of information necessary for billing and accounting regarding collect and credit card calls
D.176	12-1997	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.*
D.177	11-1988	Adjustment of charges and refunds in the international telex service
D.178	03-1993	Monthly accounts for semi-automatic telephone calls (ordinary and urgent calls, with or without special facilities)
D.180	12-1999	Occasional provision of circuits for international sound- and television-programme transmissions
D.185	11-1988	General tariff and accounting principles for international one-way point-to-multipoint satellite services
D.186	10-1996	General tariff and accounting principles for international two-way multipoint telecommunication service via satellite
D.188	10-1992	General charging and accounting principles applicable to an international videoconferencing service
D.190	09-1995	Exchange of international traffic accounting data between Administrations using electronic data interchange (EDI) techniques
D.192	06-1992	Principles for charging and accounting of service telecommunications
D.193	11-1988	Special tariff principles for privilege telecommunications
D.196	06-1992	Clearing of international telecommunication balances of accounts
D.197	07-1991	Notification of change of address(es) for accounting and settlement purposes
D.201	04-2000	General principles regarding call-back practices
D.210	09-1994	General charging and accounting principles for international telecommunication services provided over the Integrated Services Digital Network (ISDN)
D.211	12-1998	International accounting for the use of the signal transfer point and/or signalling point for relay in Signalling System No. 7
D.212	10-1996	Charging and accounting principles for the use of Signalling System No. 7
D.220	03-1991	Charging and accounting principles to be applied to international circuit-mode demand bearer services provided over the integrated services digital network (ISDN)
D.224	12-1999	Charging and accounting principles for ATM/B-ISDN
D.225	12-1997	Charging and accounting principles to be applied to frame relay data transmission service
D.230	03-1995	General charging and accounting principles for supplementary services associated with international telecommunication services provided over the Integrated Services Digital Network (ISDN)
D.231	11-1988	Charging and accounting principles relating to the User-to-User Information (UUI) supplementary service
D.232	05-1997	Specific tariff and accounting principles applicable to ISDN supplementary services
D.233	07-1996	Charging and accounting principles to be applied to the reversed charge supplementary service

D.240	03-1991	Charging and accounting principles for teleservices supported by the ISDN
D.250	07-1991	General charging and accounting principles for non-voice services provided by interworking between the ISDN and existing public data networks
D.251	11-1988	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
D.260	03-1991	Charging and accounting capabilities to be applied on the ISDN
D.280	03-1995	Principles for charging and billing, accounting and reimbursements for universal personal telecommunication
D.285	07-1996	Guiding principles for charging and accounting for intelligent network supported services
D.286	07-1996	Charging and accounting principles for the global virtual network service
D.300R	03-1995	Determination of accounting rate shares in telephone relations between countries in Europe and the Mediterranean Basin *Covering note, August 1998: Applicability of 1992 values of standard accounting rate shares components*
D.301R	03-1995	Determination of accounting rate shares and collection charges in telex relations between countries in Europe and the Mediterranean Basin *Covering note, August 1998: Applicability of 1984 values of standard accounting rate shares components*
D.302R	03-1995	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 *Covering note, August 1998: Applicability of 1984 values of standard transition and terminal rate shares components*
D.303R	03-1995	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 *Covering note, August 1998: Applicability of 1984 values of standard accounting rate shares components*
D.306R	07-1991	Remuneration of public packet -switched data transmission networks between the countries of Europe and the Mediterranean Basin
D.307R	03-1995	Remuneration of digital systems and channels used in telecommunication relations between the countries of Europe and the Mediterranean Basin *Covering note, August 1998: Applicability of 1984 values of flat-rate remuneration*
D.310R	03-1995	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 *Covering note, August 1998: Applicability of 1984 values of the annual rental*
D.400R	12-1999	Accounting rates applicable to direct traffic relations in voice telephony between countries in Latin America and the Caribbean
D.500R	06-1998	Accounting rates applicable to telephone relations between countries in Asia and Oceania
D.501R	10-1993	Accounting rates applicable to telex relations between countries in Asia and Oceania
D.600R	10-2000	Cost methodology for the TAF Group applicable to the international automatic telephone service
D.601R	10-1993	Determination of accounting rate shares and collection charges in telex relations between countries in Africa
D.606R	11-1988	Preferential rates in telecommunication relations between countries in Africa
D.supp3	03-1993	Handbook on the methodology for determining costs and establishing national tariffs

Series E: Overall network operation, telephone service, service operation and human factors

Number	Approved in	Title	Status
E.100	11-1988	Definitions of terms used in international telephone operation	
E.104	02-1995	International telephone directory assistance service and public access	
E.105	08-1992	International telephone service	
E.106	03-2000	Description of an international emergency preference scheme (IEPS)	
E.109	02-1995	International billed number screening procedures for collect and third-party calling	
E.110	11-1988	Organization of the international telephone network	
E.111	11-1988	Extension of international telephone services	
E.112	11-1988	Arrangements to be made for controlling the telephone services between two countries	
E.113	05-1997	Validation procedures for the international telecommunications charge card service	
E.114	11-1988	Supply of lists of subscribers (directories and other means)	
E.115	02-1995	Computerized directory assistance	
E.116	05-1997	International telecommunication charge card service	
E.117	06-1994	Terminal devices used in connection with the public telephone service (other than telephones)	
E.118	02-2001	The international telecommunication charge card	
E.120	11-1988	Instructions for users of the international telephone service	
E.121	07-1996	Pictograms, symbols and icons to assist users of the telephone service	
E.122	11-1988	Measures to reduce customer difficulties in the international telephone service	
E.123	02-2001	Notation for national and international telephone numbers, e-mail addresses and Web addresses	
E.124	11-1988	Discouragement of frivolous international calling to unassigned or vacant numbers answered by recorded announcements without charge	
E.125	10-1984	Inquiries among users of the international telephone service	
E.126	11-1988	Harmonization of the general information pages of the telephone directories published by administrations	
E.127	11-1988	Pages in the telephone directory intended for foreign visitors	
E.128	11-1988	Leaflet to be distributed to foreign visitors	
E.130	11-1988	Choice of the most useful and desirable supplementary telephone services	
E.131	11-1988	Subscriber control procedures for supplementary telephone services	
E.132	11-1988	Standardization of elements of control procedures for supplementary telephone services	
E.133	11-1988	Operating procedures for cardphones	
E.134	03-1993	Human factors aspects of public terminals: generic operating procedures	
E.135	10-1995	Human factors aspects of public telecommunication terminals for people with disabilities	
E.136	05-1997	Specification of a tactile identifier for use with telecommunication cards	
E.137	05-1997	User instructions for payphones	
E.140	08-1992	Operator-assisted telephone service	
E.141	03-1993	Instructions for operators on the operator-assisted international telephone service *Issued as an independant instructions handbook*	
E.148	11-1988	Routing of traffic by automatic transit exchanges	
E.149	11-1988	Presentation of routing data	
E.151	08-1992	Telephone conference calls	
E.152	02-2001	International freephone service	Pre-published.
E.153	10-1996	Home country direct	
E.154	03-1998	International shared cost service	
E.155	03-1998	International premium rate service	
E.155 Amendment 1	02-2001	The international telecommunication charge card	
E.161	02-2001	Arrangement of digits, letters and symbols on telephones and other devices that can be used for gaining access to a telephone network	
E.162	04-1995	Capability for seven digit analysis of international E.164 numbers at time T	
E.164	05-1997	The international public telecommunication numbering plan *Replaces former E.163 numbering plan*	
E.164 Supplement 1	03-1998	Alternatives for carrier selection and network identification	
E.164 Supplement 2	11-1998	Number Portability	
E.164.1	03-1998	Criteria and procedures for the reservation, assignment and reclamation of E.164 country codes and associated Identification Codes (ICs)	
E.164.2	02-2001	E.164 numbering resources for trials	
E.164.3	09-2001	Principles, criteria and procedures for the assignment and reclamation of E.164 country codes and associated identification codes for groups of countries	Pre-published.
		Timetable for coordinated implementation of the full capability of the numbering plan for the	

E.165	11-1988	ISDN era (Recommendation E.164) *This Recommendation is also published under alias number Q.11 ter*	
E.165.1	10-1996	Use of escape code "0" within the E.164 numbering plan during the transition period to implementation of NPI mechanism	
E.166/X.122	03-1998	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*	
E.167	11-1988	ISDN network identification codes	
E.168	05-1999	Application of E.164 numbering plan for UPT	
E.169.1	09-2001	Application of Recommendation E.164 numbering plan for universal international freephone numbers for international freephone service	Pre-published.
E.169.2	10-2000	Application of Recommendation E.164 numbering plan for universal international premium rate numbers for the international premium rate service	
E.169.3	10-2000	Application of Recommendation E.164 numbering plan for universal international shared cost numbers for international shared cost service	
E.170	10-1992	Traffic routing	
E.171	11-1988	International telephone routing plan	
E.172	10-1992	ISDN routing plan *Replaces ITU-T I.335 (1988).*	
E.173	08-1991	Routing plan for interconnection between public land mobile networks and fixed terminal networks	
E.174	04-1995	Routing principles and guidance for Universal Personal Telecommunications (UPT)	
E.175	11-1988	Models for international network planning	
E.177	10-1996	B-ISDN routing	
E.180/Q.35	03-1998	Technical characteristics of tones for the telephone service *This Recommendation is published with the double number E.180 and Q.35*	
E.181	11-1988	Customer recognition of foreign tones	
E.182	03-1998	Application of tones and recorded announcements in telephone services	
E.183	03-1998	Guiding principles for telephone announcements	
E.184	11-1988	Indications to users of ISDN terminals	
E.190	05-1997	Principles and responsibilities for the management, assignment and reclamation of E -series international numbering resources	
E.191	03-2000	B-ISDN addressing	
E.191.1	02-2001	Criteria and procedures for the allocation of the ITU-T international network designator addresses	Pre-published.
E.193	03-2000	E.164 country code expansion	
E.195	10-2000	ITU-T International numbering resource administration	
E.201	08-1991	Reference recommendation for mobile services	
E.202	10-1992	Network operational principles for future public mobile systems and services	
E.210	11-1988	Ship station identification for VHF/UHF and maritime mobile-satellite services *This Recommendation is also published under alias number F.120. For more details, see F.120*	
E.212	11-1998	The international identification plan for mobile terminals and mobile users	
E.213	11-1988	Telephone and ISDN numbering plan for land mobile stations in public land mobile networks (PLMN)	
E.214	11-1988	Structure of the land mobile global title for the signalling connection control part (SCCP)	
E.215	05-1997	Telephone/ISDN numbering plan for the mobile-satellite services of Inmarsat	
E.220	02-1996	Interconnection of public land mobile networks (PLMN)	
E.230	08-1992	Chargeable duration of calls	
E.232	11-1988	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 D.104. For more details, see D.104*	
E.260	11-1988	Basic technical problems concerning the measurement and recording of call durations	
E.261	11-1988	Devices for measuring and recording call durations	
E.300	11-1988	Special uses of circuits normally employed for automatic telephone traffic	
E.300SerSup2	01-1994	Various tones used in national networks	
E.301	03-1993	Impact of non-voice applications on the telephone network	
E.320	11-1988	Speeding up the establishment and clearing of phototelegraph calls	
E.330	11-1988	User control of ISDN-supported services	
E.331	10-1991	Minimum user-terminal interface for a human user entering address information into an ISDN terminal	
E.350	03-2000	Dynamic Routing Interworking	
E.351	03-2000	Routing of multimedia connections across TDM-, ATM-, and IP -based networks	
E.352	03-2000	Routing guidelines for efficient routing methods	
E.353	02-2001	Routing of calls when using international network routing addresses	
E.370	02-2001	Service principles when public circuit-switched international telecommunication networks interwork with IP-based networks	
E.401	11-1988	Statistics for the international telephone service (number of circuits in operation and volume of traffic)	
E.410	03-1998	International network management - General information	
E.411	03-2000	International network management - Operational guidance	
E.411 Amendment 1	03-2001		
E.412	03-1998	Network management controls	

E.412 Amendment 1	03-2001	Network management controls
E.413	11-1988	International network management - Planning
E.414	11-1988	International network management - Organization
E.415	08-1991	International network management guidance for common channel signalling system No. 7
E.416	03-2000	Network Management Principles and Functions for B -ISDN Traffic
E.417	02-2001	Framework for the network management of IP-Based networks
E.420	11-1988	Checking the quality of the international telephone service - General considerations
E.421	11-1988	Service quality observations on a statistical basis
E.422	02-1996	Observations on international outgoing telephone calls for quality of service
E.423	11-1988	Observations on traffic set up by operators
E.424	10-1992	Test calls
E.425	11-1998	Internal automatic observations
E.426	10-1992	General guide to the percentage of effective attempts which should be observed for international telephone calls
E.427	11-1988	Collection and statistical analysis of special quality of service observation data for measurements of customer difficulties in the international automatic service
E.428	10-1992	Connection retention
E.430	06-1992	Quality of service framework
E.431	06-1992	Service quality assessment for connection set-up and release delays
E.432	06-1992	Connection quality
E.433	06-1992	Billing integrity
E.434	06-1992	Subscriber-to-subscriber measurement of the public switched telephone network
E.436	03-1998	Customer Affecting Incidents and blocking Defects Per Million
E.437	05-1999	Comparative metrics for network performance management
E.438	03-2000	Performance parameters and measurement methods to assess N-ISDN 64 kbit/s circuit switched bearer service UDI in operation
E.439	03-2000	Test call measurement to assess N-ISDN 64 kbit/s circuit -switched bearer service UDI in operation
E.440	02-1996	Customer satisfaction point
E.450	03-1998	Facsimile quality of service on public networks - General aspects
E.451	02-2001	Facsimile call cut-off performance
E.452	03-1993	Facsimile modem speed reductions and transaction time
E.453	08-1994	Facsimile image quality as corrupted by transmission -induced scan line errors
E.454	10-1996	Transmission performance metrics based on Error Correction Mode (ECM) facsimile
E.456	03-1998	Test transaction for facsimile transmission performance
E.457	02-1996	Facsimile measurement methodologies
E.458	02-1996	Figure of merit for facsimile transmission performance
E.459	03-1998	Measurements and metrics for characterizing facsimile transmission performance using non - intrusive techniques
E.460	03-2000	Measurements and metrics for monitoring the performance of V.34 Group 3 facsimile
E.490	06-1992	Traffic measurement and evaluation - General survey
E.491	05-1997	Traffic measurement by destination
E.492	02-1996	Traffic reference period
E.493	02-1996	Grade of service (GOS) monitoring
E.500	11-1998	Traffic intensity measurement principles
E.501	05-1997	Estimation of traffic offered in the network
E.503	06-1992	Traffic measurement data analysis
E.504	11-1988	Traffic measurement administration
E.505	06-1992	Measurements of the performance of common channel signalling network
E.506	06-1992	Forecasting international traffic
E.507	11-1988	Models for forecasting international traffic
E.508	10-1992	Forecasting new telecommunication services
E.510	11-1988	Determination of the number of circuits in manual operation
E.520	11-1988	Number of circuits to be provided in automatic and/or semiautomatic operation, without overflow facilities
E.521	11-1988	Calculation of the number of circuits in a group carrying overflow traffic
E.522	11-1988	Number of circuits in a high-usage group
E.523	11-1988	Standard traffic profiles for international traffic streams
E.524	05-1999	Overflow approximations for non-random inputs
E.525	06-1992	Designing networks to control grade of service
E.526	03-1993	Dimensioning a circuit group with multi-slot bearer services and no overflow inputs
E.527	03-2000	Dimensioning at a circuit group with multi-slot bearer services and overflow traffic
E.528	02-1996	Dimensioning of digital circuit multiplication equipment (DCME) systems
E.529	05-1997	Network dimensioning using end-to-end GOS objectives
E.540	11-1988	Overall grade of service of the international part of an international connection
E.541	11-1988	Overall grade of service for international connections (subscriber -to-subscriber)
E.543	11-1988	Grades of service in digital international telephone exchanges
		Grade-of-service and new performance criteria under failure conditions in international telephone

E.550	03-1993	exchanges	
E.600	03-1993	Terms and definitions of traffic engineering	
E.651	03-2000	Reference connections for traffic engineering of IP access networks	
E.671	03-2000	Post-selection delay in PSTN/ISDN using Internet telephony for a portion of the connection	
E.681	10-2001	Traffic engineering methods for IP access networks based on hybrid fiber/coax system	Pre-published.
E.700	10-1992	Framework of the E.700-Series Recommendations	
E.701	10-1992	Reference connections for traffic engineering	
E.711	10-1992	User demand modelling	
E.712	10-1992	User plane traffic modelling	
E.713	10-1992	Control plane traffic modelling *Only the title changes*	
E.716	10-1996	User demand modelling in Broadband-ISDN	
E.720	11-1988	ISDN grade of service concept	
E.721	05-1999	Network grade of service parameters and target values for circuit-switched services in the evolving ISDN	
E.723	06-1992	Grade-of-service parameters for Signalling System No. 7 networks	
E.724	02-1996	GOS parameters and target GOS objectives for IN services	
E.726	03-2000	Network grade of service parameters and target values for B-ISDN	
E.728	03-1998	Grade-of-service parameters for B-ISDN signalling	
E.731	10-1992	Methods for dimensioning resources operating in circuit-switched mode	
E.733	11-1998	Methods for dimensioning resources in Signalling System No. 7 networks	
E.734	10-1996	Methods for allocating and dimensioning Intelligent Network (IN) resources	
E.735	05-1997	Framework for traffic control and dimensioning in B-ISDN	
E.736	03-2000	Methods for cell level traffic control in B-ISDN	
E.743	04-1995	Traffic measurements for SS No. 7 dimensioning and planning	
E.744	10-1996	Traffic and congestion control requirements for SS No. 7 and IN-structured networks	
E.745	03-2000	Cell level measurement requirements for the B-ISDN	
E.750	03-2000	Introduction to the E.750 series of Recommendations on traffic engineering aspects of networks supporting personnal communications services	
E.751	02-1996	Reference connections for traffic engineering of land mobile networks	
E.752	10-1996	Reference connections for traffic engineering of maritime and aeronautical systems	
E.755	02-1996	Reference connections for UPT traffic performance and GOS	
E.760	03-2000	Terminal mobility traffic modelling	
E.770	03-1993	Land mobile and fixed network interconnection traffic grade of service concept	
E.771	10-1996	Network grade of service parameters and target values for circuit-switched public land mobile services	
E.773	10-1996	Maritime and aeronautical mobile grade of service concept	
E.774	10-1996	Network grade of service parameters and target values for maritime and aeronautical mobile services	
E.775	02-1996	UPT grade of service concept	
E.776	10-1996	Network grade of service parameters for UPT	
E.800	08-1994	Terms and definitions related to quality of service and network performance including dependability	
E.801	10-1996	Framework for service quality agreement	
E.810	10-1992	Framework of the Recommendations on the serveability performance and service integrity for telecommunication services	
E.820	10-1992	Call models for serveability and service integrity performance	
E.830	10-1992	Models for the specification, evaluation and allocation of serveability and service integrity	
E.845	11-1988	Connection accessibility objective for the international telephone service	
E.846	03-1993	Accessibility for 64 kbit/s circuit-switched international end-to-end ISDN connection types	
E.850	10-1992	Connection retainability objective for the international telephone service	
E.855	11-1988	Connection integrity objective for the international telephone service	
E.862	06-1992	Dependability planning of telecommunication networks	
E.880	11-1988	Field data collection and evaluation on the performance of equipment, networks and services	

Series F: Non-telephone telecommunication services

Number	Approved in	Title	Status
F.1	03-1998	Operational provisions for the international public telegram service	
F.2	11-1988	Operational provisions for the collection of telegram charges *Published as F.42 (11/88), then renumbered as F.2*	
F.4	11-1988	Plain and secret language	
F.10	11-1988	Character error rate objective for telegraph communication using 5-unit start-stop equipment	
F.11	10-1991	Continued availability of traditional services	
F.14	08-1992	General provisions for one-stop-shopping arrangements	
F.15	08-1992	Evaluating the success of new services	
F.16	02-1995	Global virtual network service	
F.17	08-1992	Operational aspects of service telecommunications	
F.18	03-1998	Guidelines on harmonization of international public bureau services	
F.20	11-1988	The international gentex service	
F.21	11-1988	Composition of answer-back codes for the international gentex service	
F.23	11-1988	Grade of service for long-distance international gentex circuits	
F.24	11-1988	Average grade of service from country to country in the gentex service	
F.30	03-1993	Use of various sequences of combinations for special purposes	
F.31	11-1988	Telegram retransmission system	
F.32	10-1995	Telegram destination indicators *Formerly Rec. F.96.*	
F.35	11-1988	Provisions applying to the operation of an international public automatic message switching service for equipments utilizing the international telegraph Alphabet No. 2	
F.40	03-1991	International public telemessage service *Formerly Rec. F.50.*	
F.41	03-1991	Interworking between the telemessage service and the international public telegram service *Formerly Rec. F.51.*	
F.59	10-1996	General characteristics of the international telex service	
F.60	08-1992	Operational provisions for the international telex service	
F.61	11-1988	Operational provisions relating to the chargeable duration of a telex call	
F.63	03-1993	Additional facilities in the international telex service	
F.64	11-1988	Determination of the number of international telex circuits required to carry a given volume of traffic	
F.65	11-1988	Time-to-answer by operators at international telex positions	
F.68	11-1988	Establishment of the automatic intercontinental telex network	
F.69	06-1994	The international telex service - Service and operational provisions of telex destination codes and telex network identification codes	
F.70	11-1988	Evaluating the quality of the international telex service	
F.71	11-1988	Interconnection of private teleprinter networks with the telex network	
F.72	10-1996	The international telex service - General principles and operational aspects of a store and forward facility	
F.73	07-1990	Operational principles for communication between terminals of the international telex service and data terminal equipment on packet-switched public data networks *Corr. 12/90*	
F.74	08-1992	Intermediate storage devices accessed from the international telex service using single stage selection - Answerback format	
F.80	10-1991	Basic requirements for interworking relations between the international telex service and other services	
F.82	10-1991	Operational provisions to permit interworking between the international telex service and the intex service	
F.83	07-1990	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.*	
F.86	10-1991	Interworking between the international telex service and the videotex service	
F.87	03-1991	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 renumbered and published as F.87.*	
F.89	08-1992	Status enquiry function in the international telex service	
F.100	11-1988	Scheduled radiocommunication service	
F.104	10-1991	International leased circuit services - customer circuit designations	
F.105	11-1988	Operational provisions for phototelegrams *Published as F.80 (11/88), then renumbered as F.105.*	
F.106	11-1988	Operational provisions for private phototelegraph calls *Published as F.80 bis (11/88), then renumbered as F.106.*	

F.107	11-1988	Rules for phototelegraph established calls 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.*	
F.108	11-1988	Operating rules for international phototelegraph calls to multiple destinations *Published as F.85 (11/88), then renumbered as F.108.*	
F.110	07-1996	Operational provisions for the maritime mobile service *The date of entry into effect of this Recommendation edition is 1 January 1997.*	
F.111	03-1991	Principles of service for mobile systems	
F.112	11-1988	Quality objectives for 50-baud start-stop telegraph transmission in the maritime mobile-satellite service	
F.113	08-1992	Service provisions for aeronautical passenger communications supported by mobile-satellite systems	
F.115	02-1995	Service objectives and principles for future public land mobile telecommunication systems	
F.116	03-2000	Service features and operational provisions in IMT-2000	
F.120	11-1988	Ship station identification for VHF/UHF and maritime mobile-satellite services *This Recommendation is also published under alias number E.210*	
F.122	11-1988	Operational procedures for the maritime satellite data transmission service	
F.125	08-1993	Numbering plan for access to the mobile-satellite services of INMARSAT from the international telex service	
F.127	10-1996	Operational procedures for interworking between the international telex service and the service offered by the INMARSAT-C system	
F.130	11-1988	Maritime answer-back codes	
F.131	11-1988	Radiotelex service codes	
F.140	03-1993	Point-to-multipoint telecommunication service via satellite	
F.141	06-1994	International two-way multipoint telecommunication service via satellite	
F.150	10-1991	Service and operational provisions for the Intex service	
F.162	07-1996	Service and operational requirements of store-and-forward facsimile service	
F.163	07-1996	Operational requirements of the interconnection of facsimile store-and-forward units	
F.170	03-1998	Operational provisions for the international public facsimile service between public bureaux (Bureaufax)	
F.171	11-1988	Operational provisions relating to the use of store-and-forward switching nodes within the bureaufax service	
F.182*bis*	10-1996	Guidelines for the support of the communication of documents using Group 3 facsimile between user terminals via public networks	
F.185	06-1998	Internet facsimile: Guidelines for the support of the communication of facsimile documents	
F.190	08-1992	Operational provisions for the international facsimile service between public bureaux and subscriber stations and vice versa (bureaufax-telefax and vice versa)	
F.300	03-1993	Videotex service	
F.301	10-1995	Fast speed PSTN videotex	
F.350	11-1988	Application of Series T Recommendations	
F.351	11-1988	General principles on the presentation of terminal identification to users of the telematic services	
F.353	11-1988	Provision of telematic and data transmission services on integrated services digital network (ISDN)	
F.400/X.400	06-1999	Message handling services: Message handling system and service overview	Pre-published.
F.401	08-1992	Message handling services: Naming and addressing for public message handling services	
F.410	08-1992	Message handling system: The public message transfer service	
F.415	11-1988	Message handling system: Intercommunication with public physical delivery services *Erratum in F.410 (08/92)*	
F.420	08-1992	Message handling system: The public interpersonal messaging service	
F.421	11-1988	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.* *Covering note, December 1999: Intercommunication between the IPM service and the telex service.*	
F.421 Errata	12-1999	Errata to Recommendation F.421 (11/88)	
F.423	08-1992	Message handling system: Intercommunication between the interpersonal messaging service and the telefax service	
F.435	06-1999	Message handling services: Electronic Data Interchange messaging service	
F.440	08-1992	Message handling system: The voice messaging service	
F.471	08-1997	Operational requirements for the interconnection of voice-mail store-and-forward units	
F.471 Corrigendum 1	09-1998	Corrigendum 1	
F.472	08-1997	Service and operational requirements of the voice-mail store-and-forward service	
F.500	08-1992	International public directory services	
F.510	12-1997	Automated directory assistance - White pages service definition	
F.581	03-1993	Guidelines for programming communication interfaces (PCIs) definition: service Recommendation	
F.600	09-1998	Service and operational principles for public data transmission service	
F.700	11-2000	Framework Recommendation for multimedia services	
F.701	11-2000	Guideline Recommendation for identifying multimedia service requirements	
F.702	07-1996	Multimedia conference services	
F.703	11-2000	Multimedia conversational services	
F.720	08-1992	Videotelephony services - General	

F.721	08-1992	Videotelephony teleservice for ISDN
F.723	07-1996	Videophone service in the Public Switched Telephone Network (PSTN)
F.731	07-1997	Multimedia Conference Services in the ISDN
F.732	10-1996	Multimedia conference services in the B-ISDN
F.740	08-1993	Audiovisual interactive services
F.761	11-1988	Service-oriented requirements for telewriting applications *Published as F.730 (11/88), then renumbered as F.761.*
F.811	07-1996	Broadband connection-oriented bearer service
F.812	08-1992	Broadband connectionless data bearer service
F.813	02-1995	Virtual path service for reserved and permanent communications
F.850	03-1993	Principles of universal personal telecommunication (UPT)
F.851	02-1995	Universal Personal Telecommunication (UPT) - Service description (service set 1)
F.852	03-2000	Universal personal telecommunication (UPT) - Service description (service set 2)
F.853	11-1998	Supplementary services in the Universal Personal Telecommunication (UPT) environment
F.901	03-1993	Usability evaluation of telecommunication services
F.902	02-1995	Interactive services design guidelines
F.910	02-1995	Procedures for designing, evaluating and selecting symbols, pictograms and icons

Series G: Transmission systems and media, digital systems and networks

Number	Approved in	Title	Status
G.100	02-2001	Definitions used in Recommendations on general characteristics of international telephone connections and circuits	
G.100 Series Supplement 29	03-1993	Planning of mixed analogue-digital circuits (chains, connections)	
G.100 Series Supplement 31	03-1993	Principles of determining an impedance strategy for the local network	
G.100 Series Supplement 32	03-1993	Transmission aspects of digital mobile radio systems	
G.100.1	11-2001	The use of the decibel and of relative levels in speechband telecommunication	Pre-published.
G.101	08-1996	The transmission plan	
G.101 Appendix I	05-2000	A computational model for guidance in transmission planning	
G.102	11-1988	Transmission performance objectives and Recommendations	
G.103	12-1998	Hypothetical reference connections	
G.105	11-1988	Hypothetical reference connection for crosstalk studies	
G.107	05-2000	The E-Model, a computational model for use in transmission planning	
G.107 Erratum	05-2001	Erratum to Recommendation ITU-T G.107 (05/00)	
G.108	09-1999	Application of the E-model: A planning guide *Covering note, November 2000: Erratum*	
G.108 Erratum	12-2000	Erratum to Recommendation ITU-T G.108 (09/99)	
G.108.1	05-2000	Guidance for assessing conversational speech transmission quality effects not covered by the E-model	
G.109	09-1999	Definition of categories of speech transmission quality	
G.111	03-1993	Loudness ratings (LRs) in an international connection	
G.113	02-2001	Transmission impairments due to speech processing	
G.114	05-2000	One-way transmission time	
G.115	02-1996	Mean active speech level for announcement and speech synthesis systems	
G.116	09-1999	Transmission performance objectives applicable to end-to-end international connections	
G.117	02-1996	Transmission aspects of unbalance about earth	
G.120	12-1998	Transmission characteristics of national networks	
G.121	03-1993	Loudness ratings (LRs) of national systems	
G.122	03-1993	Influence of national systems on stability and talker echo in international connections	
G.126	03-1993	Listener echo in telephone networks	
G.131	08-1996	Control of talker echo	
G.131 Appendix II	09-1999	Relation between echo disturbances under single talk and double talk conditions (evaluated for one-way transmission time of 100 ms)	
G.136	09-1999	Application rules for automatic level control devices *Covering note, May 2000: Erratum*	
G.136 Erratum	12-2000	Erratum to Recommendation ITU-T G.136 (09/99)	
G.142	12-1998	Transmission characteristics of exchanges	
G.164	11-1988	Echo suppressors	
G.165	03-1993	Echo cancellers	
G.167	03-1993	Acoustic echo controllers	
G.168	04-2000	Digital network echo cancellers	
G.169	07-1999	Automatic level control devices	
G.172	11-1988	Transmission plan aspects of international conference calls	
G.173	03-1993	Transmission planning aspects of the speech service in digital public land mobile networks	
G.174	06-1994	Transmission performance objectives for terrestrial digital wireless systems using portable terminals to access the PSTN	
G.175	05-2000	Transmission planning for private/public network interconnection of voice traffic	
G.176	04-1997	Planning guidelines for the integration of ATM technology into networks supporting voiceband services	
G.177	09-1999	Transmission planning for voiceband services over hybrid Internet/PSTN connections	
G.180	03-1993	Characteristics of N + M type direct transmission restoration systems for use on digital and analogue sections, links or equipment	
G.181	03-1993	Characteristics of 1 + 1 type restoration systems for use on digital transmission links	
G.191	11-2000	Software tools for speech and audio coding standardization *This Recommendation includes 1 CD-ROM containing the software tools library (STL -2000)).* *The STL-2000 Manual is freely available from this Website for information purpose.*	
G.191 STL-2000 Manual	12-2000	STL-2000 Manual	Available only in PDF, see Disc 1
G.192	03-1996	A common digital parallel interface for speech standardisation activities	

G.211	11-1988	Make-up of a carrier link
G.212	11-1988	Hypothetical reference circuits for analogue systems
G.213	11-1988	Interconnection of systems in a main repeater station
G.214	11-1988	Line stability of cable systems
G.215	11-1988	Hypothetical reference circuit of 5000 km for analogue systems
G.221	11-1988	Overall recommendations relating to carrier-transmission systems
G.222	11-1988	Noise objectives for design of carrier-transmission systems of 2500 km
G.223	11-1988	Assumptions for the calculation of noise on hypothetical reference circuits for telephony
G.224	11-1988	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*
G.225	11-1988	Recommendations relating to the accuracy of carrier frequencies
G.226	11-1988	Noise on a real link
G.227	11-1988	Conventional telephone signal
G.228	11-1988	Measurement of circuit noise in cable systems using a uniform-spectrum random noise loading
G.229	11-1988	Unwanted modulation and phase jitter
G.230	11-1988	Measuring methods for noise produced by modulating equipment and through-connection filters
G.231	11-1988	Arrangement of carrier equipment
G.232	11-1988	12-channel terminal equipments
G.233	11-1988	Recommendations concerning translating equipments
G.241	11-1988	Pilots on groups, supergroups, etc.
G.242	11-1988	Through-connection of groups, supergroups, etc.
G.243	11-1988	Protection of pilots and additional measuring frequencies at points where there is a through-connection
G.322	11-1988	General characteristics recommended for systems on symmetric pair cables
G.325	11-1988	General characteristics recommended for systems providing 12 telephone carrier circuits on a symmetric cable pair [(12 + 12) systems]
G.332	11-1988	12 MHz systems on standardized 2.6/9.5 mm coaxial cable pairs
G.333	11-1988	60 MHz systems on standardized 2.6/9.5 mm coaxial cable pairs
G.334	11-1988	18 MHz systems on standardized 2.6/9.5 mm coaxial cable pairs
G.341	11-1988	1.3 MHz systems on standardized 1.2/4.4 mm coaxial cable pairs
G.343	11-1988	4 MHz systems on standardized 1.2/4.4 mm coaxial cable pairs
G.344	11-1988	6 MHz systems on standardized 1.2/4.4 mm coaxial cable pairs
G.345	11-1988	12 MHz systems on standardized 1.2/4.4 mm coaxial cable pairs
G.346	11-1988	18 MHz systems on standardized 1.2/4.4 mm coaxial cable pairs
G.352	11-1988	Interconnection of coaxial carrier systems of different designs
G.411	11-1988	Use of radio-relay systems for international telephone circuits
G.421	11-1988	Methods of interconnection
G.422	11-1988	Interconnection at audio-frequencies
G.423	11-1988	Interconnection at the baseband frequencies of frequency-division multiplex radio-relay systems
G.431	11-1988	Hypothetical reference circuits for frequency-division multiplex radio-relay systems
G.441	11-1988	Permissible circuit noise on frequency-division multiplex radio-relay systems
G.442	11-1988	Radio-relay system design objectives for noise at the far end of a hypothetical reference circuit with reference to telegraphy transmission
G.451	11-1988	Use of radio links in international telephone circuits
G.511	02-1998	Test methodology for Group 3 facsimile processing equipment in the Public Switched Telephone Network
G.601	11-1988	Terminology for cables
G.602	11-1988	Reliability and availability of analogue cable transmission systems and associated equipments
G.611	11-1988	Characteristics of symmetric cable pairs for analogue transmission
G.612	11-1988	Characteristics of symmetric cable pairs designed for the transmission of systems with bit rates of the order of 6 to 34 Mbit/s
G.613	11-1988	Characteristics of symmetric cable pairs usable wholly for the transmission of digital systems with a bit rate of up to 2 Mbits
G.614	11-1988	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
G.621	11-1988	Characteristics of 0.7/2.9 mm coaxial cable pairs
G.622	11-1988	Characteristics of 1.2/4.4 mm coaxial cable pairs
G.623	11-1988	Characteristics of 2.6/9.5 mm coaxial cable pairs
G.631	11-1988	Types of submarine cable to be used for systems with line frequencies of less than about 45 MHz
G.650	10-2000	Definition and test methods for the relevant parameters of single-mode fibres
G.651	02-1998	Characteristics of a 50/125 µm multimode graded index optical fibre cable
G.652	10-2000	Characteristics of a single-mode optical fibre cable
G.653	10-2000	Characteristics of a dispersion-shifted single-mode optical fibre cable
G.654	10-2000	Characteristics of a cut-off shifted single-mode optical fibre cable
G.655	10-2000	Characteristics of a non-zero dispersion shifted single-mode optical fibre cable
G.661	10-1998	Definition and test methods for the relevant generic parameters of optical amplifier devices and subsystems
G.662	10-1998	Generic characteristics of optical amplifier devices and subsystems

G.663	04-2000	Application related aspects of optical amplifier devices and subsystems	
G.664	07-1999	Optical safety procedures and requirements for optical transport systems	
G.671	02-2001	Transmission characteristics of optical components and subsystems	Pre-published.
G.681	10-1996	Functional characteristics of interoffice and long-haul line systems using optical amplifiers, including optical multiplexing	
G.691	10-2000	Optical interfaces for single-channel STM-64, STM-256 and other SDH systems with optical amplifiers	
G.692	10-1998	Optical interfaces for multichannel systems with optical amplifiers *Covering note, 07.01.2000: Corrigendum 1*	
G.692 Corrigendum 1	01-2000		
G.693	11-2001	Optical interfaces for intra-office-systems	Pre-published.
G.701	03-1993	Vocabulary of digital transmission and multiplexing, and pulse code modulation (PCM) terms	
G.702	11-1988	Digital hierarchy bit rates	
G.703	11-2001	Physical/electrical characteristics of hierarchical digital interfaces	Pre-published.
G.704	10-1998	Synchronous frame structures used at 1544, 6312, 2048, 8448 and 44 736 kbit/s hierarchical levels	
G.705	10-2000	Characteristics of Plesiochronous Digital Hierarchy (PDH) Equipment Functional Blocks *The content of this Recommendation is now covered by ITU-T Q.500 series, and more specifically Q.554*	Pre-published.
G.706	04-1991	Frame alignment and cyclic redundancy check (CRC) procedures relating to basic frame structures defined in Recommendation G.704	
G.707/Y.1322	10-2000	Network node interface for the synchronous digital hierarchy (SDH)	
G.707 Amendment 1	11-2001	Network node interface for the synchronous digital hierarchy (SDH)	Pre-published.
G.707 Corrigendum 1	03-2001	Corrigendum 1 to Recommendation G.707	Pre-published.
G.707 Corrigendum 2	11-2001	Corrigendum 2 Network node interface for the synchronous digital hierarchy (SDH)	Pre-published.
G.708	07-1999	Sub STM-0 network node interface for the synchronous digital hierarchy (SDH)	
G.709/Y.1331	02-2001	Network node interface for the Optical Transport Network (OTN)	
G.709/Y.1331 Amendment 1	11-2001	Amendment 1	Pre-published.
G.711	11-1988	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.*	
G.711 Appendix I	09-1999	A high quality low-complexity algorithm for packet loss concealment with G.711	
G.711 Appendix II	02-2000	A comfort noise payload definition for ITU-T G.711 use in packet-based multimedia communication systems	
G.712	11-2001	Transmission performance characteristics of pulse code modulation channels	Pre-published.
G.720	07-1995	Characterization of low-rate digital voice coder performance with non-voice signals	
G.722	11-1988	7 kHz audio-coding within 64 kbit/s	
G.722 Annex A	03-1993	Testing signal-to-total distortion ratio for 7 kHz audio-codecs at 64 kbit/s Recommendation G.722 connected back-to-back	
G.722 Appendix II	03-1987	Digital test sequences for the verification of the G.722 64 kbit/s SB-ADPCM 7 kHz codec *This document corresponds to ITU-T Rec. G.722 Appendix II which was published in the Blue Book (1988). It includes one diskette containing the digital test sequences for the verification of the G.722 SB-ADPCM codec.*	
G.722.1	09-1999	Coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss *This Annex includes 1 CD-ROM containing the reference code and the test vectors for ITU-T G.722.1 algorithm implementation verification.*	
G.722.1 Annex A	02-2000	Packet format, capability identifiers and capability parameters	
G.722.2 Annex A	01-2002	Comfort noise aspects	Pre-published.
G.722.2 Annex B	01-2002	Source controlled rate operation	Pre-published.
G.722.2 Annex C	01-2002	Fixed-point C-code	Pre-published.
G.722.2 Annex E	01-2002	Frame structure	Pre-published.
G.723	***Speech coders***		
G.723.1	03-1996	Speech coders : Dual rate speech coder for multimedia communications transmitting at 5.3 and 6.3 kbit/s *Test vectors, test sequences and C Reference code described in this Recommendation are common to Recommendation main body and to Annex A, and may be found on 3 diskettes included with G.723.1 Annex A.*	
G.723.1 Annex A	11-1996	Speech coders : Silence compression scheme *This Annex includes 3 diskettes which are common to Recommendation main body and to this annex and which contain test vectors and C reference code for implementation verification of the G.723.1 fixed point dual rate speech coder for multimedia communications.*	
G.723.1 Annex B	11-1996	Speech coders : Alternative specification based on floating point arithmetic *This Annex includes one CD-ROM containing the reference code and the test vectors for implementation verification of the G.723.1 floating point speech coder. The CD-ROM may be replaced on demand by 14 diskettes.*	
G.723.1 Annex C	11-1996	Speech coders : Scalable channel coding scheme for wireless applications *This Annex includes one diskette containing the reference code and the test vectors for implementation verification of the scalable channel coding scheme.*	
G.724	11-1988	Characteristics of a 48-channel low bit rate encoding primary multiplex operating at 1544 kbit/s	
G.725	11-1988	System aspects for the use of the 7 kHz audio codec within 64 kbit/s	

G.726	12-1990	40, 32, 24, 16 kbit/s adaptive differential pulse code modulation (ADPCM)
G.726 Annex A	11-1994	Extensions of Recommendation G.726 for use with uniform -quantized input and output
G.726 Appendix II	03-1991	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 the CCITT collective letter No. 11/XV (1991).*
G.726 Appendix III	05-1994	Comparison of ADPCM algorithms *This Appendix is published with the double number G.726 App. III and G.727 App. II*
G.727	12-1990	5-, 4-, 3- and 2-bit/sample embedded adaptive differential pulse code modulation (ADPCM)
G.727 Annex A	11-1994	Extensions of Recommendation G.727 for use with uniform -quantized input and output
G.727 Appendix I	03-1991	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 letter No. 12/XV (1991).*
G.727 Appendix II	05-1994	Comparison of ADPCM algorithms *This Appendix is published with the double number G.726 App. III and G.727 App. II*
G.728	09-1992	Coding of speech at 16 kbit/s using low-delay code excited linear prediction
G.728 Annex G	11-1994	16 kbit/s fixed point specification
G.728 Annex G Corrigendum 1	02-2000	Corrigendum 1
G.728 Annex H	05-1999	Variable bit rate LD-CELP operation mainly for DCME at rates less than 16 kbit/s *This Annex includes 1 CD-ROM containing the test data for verification of G.728 Annex H low bit rate LD-CELP implementations.*
G.728 Annex I	05-1999	Frame or packet loss concealment for the LD-CELP decoder
G.728 Annex J	09-1999	Variable bit-rate operation of LD-CELP mainly for voiceband-data applications in DCME *This Annex includes 1 CD-ROM containing the test vectors for verification of G.728 Annex J variable bit-rate LD-CELP implementations.*
G.728 Appendix I	07-1995	Programs and test sequences for implementation verification of the algorithm of the G.728 16 kbit/s LD-CELP speech coder *This document corresponds to G.728 Appendix I. It includes 4 diskettes containing programs and test sequences for verification of the floating point and fixed point implementations of the G.728 LD-CELP algorithm. The document reproduces the user guide published in the CCITT collective letter No. 17/XV (1992).*
G.728 Appendix II	11-1995	Speech performance
G.729	03-1996	Coding of speech at 8 kbit/s using conjugate-structure algebraic-code-excited linear-prediction (CS-ACELP) *This Recommendation includes 3 diskettes containing source code and test sequences for implementation verification of the algorithm of the G.729 8 kbit/s CS-ACELP speech coder.*
G.729 Annex A	11-1996	Reduced complexity 8 kbit/s CS-ACELP speech codec *This Annex includes 3 diskettes containing source code and test sequences for implementation verification of the algorithm of the G.729 reduced complexity 8 kbit/s CS-ACELP speech coder.*
G.729 Annex B	10-1996	A silence compression scheme for G.729 optimized for terminals conforming to Recommendation V.70 *This Annex includes 1 diskette containing source code and test sequences for implementation verification of the algorithm of the G.729 Silence compression scheme version 1.3, which reflects modifications given in Corrigendum 1 (02/98).*
G.729 Annex C	09-1998	Reference floating-point implementation for G.729 CS-ACELP 8 kbit/s speech coding *This Annex includes 1 diskette containing version 1.01 of reference C code for floating point implementation of the G.729 8 kbit/s CS-ACELP speech coder. Diskette + Annex.*
G.729 Annex C+	02-2000	Reference floating-point implementation for integrating G.729 CS-ACELP speech coding main body with Annexes B, D and E *This annex includes an electronic attachment containing version 2.1 of reference C code for floating point implementation of CS-ACELP at 6.4/8/11.8 kbit/s with DTX functionality.*
G.729 Annex D	09-1998	6.4 kbit/s CS-ACELP speech coding algorithm *This Annex includes one diskette containing version 1.2 of source C code for fixed point implementation of the G.729 6.4 kbit/s CS-ACELP speech coder.*
G.729 Annex E	09-1998	11.8 kbit/s CS-ACELP speech coding algorithm *This Annex includes 2 diskettes containing version 1.2 of source C code and test vectors for fixed point implementation of the G.729 11.8 kbit/s CS-ACELP speech coder.*
G.729 Annex F	02-2000	Reference implementation of G.729 Annex B DTX functionality for Annex D *This annex includes an electronic attachment containing version 1.1 of reference C code and test vectors for fixed point implementation of CS-ACELP at 6.4 kbit/s 8 kbit/s with DTX functionality.*
G.729 Annex G	02-2000	Reference implementation of G.729 Annex B DTX functionality for Annex E *This annex includes an electronic attachment containing version 1.1 of reference C code and test vectors for fixed point implementation of CS-ACELP at 8 kbit/s and 11.8 kbit/s with DTX functionality.*
G.729 Annex H	02-2000	Reference implementation of switching procedure between G.729 Annexes D and E *This annex includes an electronic attachment containing version 1.1 of reference C code and test vectors for fixed point implementation of CS-ACELP at 6.4 kbit/s 8 kbit/s and 11.8 kbit/s without DTX functionality.*
G.729 Annex I	02-2000	Reference fixed-point implementation for integrating G.729 CS-ACELP speech coding main body with Annexes B, D and E *This annex includes an electronic attachment containing version 1.1 of reference C code and test vectors for fixed point implementation of CS-ACELP at 6.4 kbit/s 8 kbit/s and 11.8 kb/s with DTX functionality.*
G.729 Annexes		

Corrigendum 2	03-2001		Pre-published.
G.729 Appendix I	06-2001	Appendix I: External synchronous reset performance for G.729 codecs in systems using external VAD/DTX/CNG	Pre-published.
G.731	11-1988	Primary PCM multiplex equipment for voice frequencies	
G.732	11-1988	Characteristics of primary PCM multiplex equipment operating at 2048 kbit/s	
G.733	11-1988	Characteristics of primary PCM multiplex equipment operating at 1544 kbit/s	
G.734	11-1988	Characteristics of synchronous digital multiplex equipment operating at 1544 kbit/s	
G.735	11-1988	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	
G.736	03-1993	Characteristics of a synchronous digital multiplex equipment operating at 2048 kbit/s	
G.737	11-1988	Characteristics of an external access equipment operating at 2048 kbit/s offering synchronous digital access at 384 kbit/s and/or 64 kbit/s	
G.738	11-1988	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	
G.739	11-1988	Characteristics of an external access equipment operating at 2048 kbit/s offering synchronous digital access at 320 kbit/s and/or 64 kbit/s	
G.741	11-1988	General considerations on second order multiplex equipments	
G.742	11-1988	Second order digital multiplex equipment operating at 8448 kbit/s and using positive justification	
G.743	11-1988	Second order digital multiplex equipment operating at 6312 kbit/s and using positive justification	
G.744	11-1988	Second order PCM multiplex equipment operating at 8448 kbit/s	
G.745	11-1988	Second order digital multiplex equipment operating at 8448 kbit/s and using positive/zero/negative justification	
G.746	11-1988	Characteristics of second order PCM multiplex equipment operating at 6312 kbit/s	
G.747	11-1988	Second order digital multiplex equipment operating at 6312 kbit/s and multiplexing three tributaries at 2048 kbit/s	
G.751	11-1988	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	
G.752	11-1988	Characteristics of digital multiplex equipments based on a second order bit rate of 6312 kbit/s and using positive justification	
G.753	11-1988	Third order digital multiplex equipment operating at 34 368 kbit/s and using positive/zero/negative justification	
G.754	11-1988	Fourth order digital multiplex equipment operating at 139 264 kbit/s and using positive/zero/negative justification	
G.755	11-1988	Digital multiplex equipment operating at 139 264 kbit/s and multiplexing three tributaries at 44 736 kbit/s	
G.761	11-1988	General characteristics of a 60-channel transcoder equipment	
G.762	11-1988	General characteristics of a 48-channel transcoder equipment	
G.763	10-1998	Digital circuit multiplication equipment using G.726 ADPCM and digital speech interpolation *This Recommendation includes 2 diskettes. The first one contains A-Law and m-Law test vectors for DCME verification. The second one contains example transmit/receive SDLs. Covering note, May 2000: Erratum*	
G.763 Erratum	12-2000	Erratum to Recommendation ITU-T G.763 (10/98)	
G.764	12-1990	Voice packetization - Packetized voice protocols	
G.764 Appendix I	11-1995	Packetization guide	
G.765	09-1992	Packet circuit multiplication equipment	
G.765 Appendix I	11-1995	A guide to PCME	
G.766	11-1996	Facsimile demodulation/remodulation for digital circuit multiplication equipment	
G.767	10-1998	Digital circuit multiplication equipment using 16 kbit/s LD-CELP, digital speech interpolation and facsimile demodulation/remodulation	
G.768	03-2001	Digital circuit multiplication equipment using 8 kbit/s CS-ACELP	
G.772	03-1993	Protected monitoring points provided on digital transmission systems	
G.773	03-1993	Protocol suites for Q-interfaces for management of transmission systems	
G.774	02-2001	Synchronous digital hierarchy (SDH) - Management information model for the network element view	
G.774.1	02-2001	Synchronous digital hierarchy (SDH) - Bidirectional performance monitoring for the network element view	
G.774.2	02-2001	Synchronous digital hierarchy (SDH) - Configuration of the payload structure for the network element view	
G.774.3	02-2001	Synchronous digital hierarchy (SDH) management of multiplex-section protection for the network element view	Pre-published.
G.774.4	02-2001	Synchronous digital hierarchy (SDH) management of the subnetwork connection protection for the network element view	Pre-published.
G.774.5	02-2001	Synchronous digital hierarchy (SDH) management of connection supervision functionality (HCS/LCS) for the network element view	
G.774.6	02-2001	Synchronous Digital Hierarchy (SDH) - Unidirectional performance monitoring for the network element view	
G.774.7	02-2001	Synchronous digital hierarchy (SDH) - Management of lower order path trace and interface labelling for the network element view	
G.774.8	02-2001	Synchronous digital hierarchy (SDH) - Management of radio-relay systems for the network element view	
G.774.9	02-2001	Synchronous digital hierarchy (SDH) - Configuration of linear multiplex-section protection for the network element view	
G.774.10	02-2001	Synchronous Digital Hierarchy (SDH) Multiplex Section (MS) shared protection ring	

		management for the network element view	
G.775	10-1998	Loss of Signal (LOS), Alarm Indication Signal (AIS) and Remote Defect Indication (RDI) defect detection and clearance criteria for PDH signals	
G.776.1	10-1998	Managed objects for signal processing network elements *This Recommendation includes one diskette containing the information model of Signal Processing Network Elements (SPNE).*	
G.776.3	04-2000	ADPCM DCME configuration map report	
G.780	07-1999	Vocabulary of terms for synchronous digital hierarchy (SDH) networks and equipment	
G.781	07-1999	Synchronization layer functions	
G.783	10-2000	Characteristics of synchronous digital hierarchy (SDH) equipment functional blocks	
G.783 Corrigendum 1	03-2001	Corrigendum 1 (03/01) to Recommendation G.783	Pre-published.
G.784	07-1999	Synchronous digital hierarchy (SDH) management	
G.785	11-1996	Characteristics of a flexible multiplexer in a synchronous digital hierarchy environment	
G.791	11-1988	General considerations on transmultiplexing equipments	
G.792	11-1988	Characteristics common to all transmultiplexing equipments	
G.793	11-1988	Characteristics of 60-channel transmultiplexing equipments	
G.794	11-1988	Characteristics of 24-channel transmultiplexing equipments	
G.795	11-1988	Characteristics of codecs for FDM assemblies	
G.796	09-1992	Characteristics of a 64 kbit/s cross-connect equipment with 2048 kbit/s access ports	
G.796 Corrigendum 1	10-1998		
G.797	03-1996	Characteristics of a flexible multiplexer in a plesiochronous digital hierarchy environment	
G.798	01-2002	Characteristics of optical transport network hierarchy equipment functional blocks	Pre-published.
G.801	11-1988	Digital transmission models	
G.802	11-1988	Interworking between networks based on different digital hierarchies and speech encoding laws	
G.803	03-2000	Architecture of transport networks based on the synchronous digital hierarchy (SDH)	
G.804	02-1998	ATM cell mapping into Plesiochronous Digital Hierarchy (PDH)	
G.805	03-2000	Generic functional architecture of transport networks	
G.806	10-2000	Characteristics of Transport Equipment - Description Methodology and Generic Functionality	
G.807/Y.1302	07-2001	Requirements for automatic switched transport networks (ASTN)	
G.810	08-1996	Definitions and terminology for synchronization networks	
G.810 Corrigendum 1	11-2001	Corrigendum 1 (10/01) to Recommendation G.810	
G.811	09-1997	Timing characteristics of primary reference clocks	
G.812	06-1998	Timing requirements of slave clocks suitable for use as node clocks in synchronization networks	
G.813	08-1996	Timing characteristics of SDH equipment slave clocks (SEC)	
G.813 Corrigendum 1	11-2001	Corrigendum 1	Pre-published.
G.821	08-1996	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	
G.821 Corrigendum 1	07-2001	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	Pre-published.
G.822	11-1988	Controlled slip rate objectives on an international digital connection	
G.823	03-2000	The control of jitter and wander within digital networks which are based on the 2048 kbit/s hierarchy	
G.824	03-2000	The control of jitter and wander within digital networks which are based on the 1544 kbit/s hierarchy	
G.825	03-2000	The control of jitter and wander within digital networks which are based on the synchronous digital hierarchy (SDH)	
G.825 Erratum 1	08-2001	Erratum to Recommendation ITU-T G.825 (03/00)	
G.826	02-1999	Error performance parameters and objectives for international, constant bit rate digital paths at or above the primary rate	
G.826 Corrigendum 1	07-2001	Corrigendum 1	Pre-published.
G.827	03-2000	Availability parameters and objectives for path elements of international constant bit-rate digital paths at or above the primary rate	
G.827.1	11-2000	Availability performance objectives for end-to-end international constant bit-rate digital paths at or above the primary rate	
G.828	03-2000	Error performance parameters and objectives for international, constant bit rate synchronous digital paths	
G.828 Corrigendum 1	07-2001	Corrigendum 1	Pre-published.
G.829	03-2000	Error performance events for SDH Multiplex and regenerator sections	
G.831	03-2000	Management capabilities of transport networks based on the synchronous digital hierarchy (SDH)	
G.832	10-1998	Transport of SDH elements on PDH networks - Frame and multiplexing structures	
G.841	10-1998	Types and characteristics of SDH network protection architectures	
G.842	04-1997	Interworking of SDH network protection architectures	
G.851.1	11-1996	Management of the transport network - Application of the RM-ODP framework	
G.852.1	11-1996	Enterprise viewpoint for simple subnetwork connection management	
G.852.2	03-1999	Enterprise viewpoint description of transport network resource model	

G.852.3	03-1999	Enterprise viewpoint for topology management	
G.852.6	03-1999	Enterprise viewpoint for trail management	
G.852.8	03-1999	Enterprise viewpoint for pre-provisioned adaptation management	
G.852.10	03-1999	Enterprise viewpoint for pre-provisioned link connection management	
G.852.12	03-1999	Enterprise viewpoint for pre-provisioned link management	
G.852.16	01-2001	Enterprise viewpoint for pre-provisioned route discovery	
G.853.1	03-1999	Common elements of the information viewpoint for the management of a transport network	
G.853.2	11-1996	Subnetwork connection management information viewpoint	
G.853.3	03-1999	Information viewpoint for topology management	
G.853.6	03-1999	Information viewpoint for trail management	
G.853.8	03-1999	Information viewpoint for pre-provisioned adaptation management	
G.853.10	03-1999	Information viewpoint for pre-provisioned link connection management	
G.853.12	03-1999	Information viewpoint for pre-provisioned link management	
G.853.16	01-2001	Information viewpoint for pre-provisioned route discovery	
G.854.1	11-1996	Computational interfaces for basic transport network model	
G.854.3	03-1999	Computational viewpoint for topology management	
G.854.6	03-1999	Computational viewpoint for trail management	
G.854.8	03-1999	Computational viewpoint for pre-provisioned adaptation management	
G.854.10	03-1999	Computational viewpoint for pre-provisioned link connection management	
G.854.12	03-1999	Computational viewpoint for pre-provisioned link management	
G.854.16	01-2001	Computational viewpoint for pre-provisioned route discovery	
G.855.1	03-1999	GDMO engineering viewpoint for the generic network level model	
G.861	08-1996	Principles and guidelines for the integration of satellite and radio systems in SDH transport networks	
G.871/Y.1301	10-2000	Framework of Optical Transport Network Recommendations	Available only in PDF, see Disc 1
G.872	11-2001	Architecture of optical transport networks	Pre-published.
G.874	11-2001	Management aspects of the optical transport network element	Pre-published.
G.901	11-1988	General considerations on digital sections and digital line systems	
G.902	11-1995	Framework Recommendation on functional access networks (AN) - Architecture and functions, access types, management and service node aspects	
G.911	04-1997	Parameters and calculation methodologies for reliability and availability of fibre optic systems	
G.921	11-1988	Digital sections based on the 2048 kbit/s hierarchy	
G.931	11-1988	Digital line sections at 3152 kbit/s	
G.941	11-1988	Digital line systems provided by FDM transmission bearers	
G.950	11-1988	General considerations on digital line systems	
G.951	11-1988	Digital line systems based on the 1544 kbit/s hierarchy on symmetric pair cables	
G.952	11-1988	Digital line systems based on the 2048 kbit/s hierarchy on symmetric pair cables	
G.953	11-1988	Digital line systems based on the 1544 kbit/s hierarchy on coaxial pair cables	
G.954	11-1988	Digital line systems based on the 2048 kbit/s hierarchy on coaxial pair cables	
G.955	11-1996	Digital line systems based on the 1544 kbit/s and the 2048 kbit/s hierarchy on optical fibre cables	
G.957	07-1999	Optical interfaces for equipments and systems relating to the synchronous digital hierarchy	
G.958	11-1994	Digital line systems based on the synchronous digital hierarchy for use on optical fibre cables	
G.959.1	02-2001	Optical transport network physical layer interfaces	Pre-published.
G.960	03-1993	Access digital section for ISDN basic rate access	
G.961	03-1993	Digital transmission system on metallic local lines for ISDN basic rate access *Covering note, 1st August 2000: Corrigendum 1*	
G.961 Corrigendum 1	08-2000	Corrigendum No. 1 to Recommendation ITU -T G.961 (03/93)	
G.962	03-1993	Access digital section for ISDN primary rate at 2048 kbit/s	
G.962 Amendment 1	06-1997	Maintenance channel	
G.963	03-1993	Access digital section for ISDN primary rate at 1544 kbit/s	
G.964	03-2001	V-Interfaces at the digital local exchange (LE) - V5.1-Interface (Based on 2048 kbit/S) for the support of access network (AN)	Pre-published.
G.965	03-2001	V-Interfaces at the digital local exchange (LE) - V5.2 interface (Based on 2048 kbit/s) for the support of access network (AN) *V-Interfaces at the digital local exchange (LE) - V5.2 interface (Based on 2048 kbit/s) for the support of access network (AN)*	Pre-published.
G.966	02-1999	Access digital section for B-ISDN	
G.967	***V-interfaces at the service node (SN)***		
G.967.1	06-1998	V-interfaces at the service node (SN) : VB5.1 reference point specification *This Recommendation includes one diskette containing the SDL process diagrams corresponding to the VB5.1 reference point.*	
G.967.2	02-1999	V-interfaces at the service node (SN) : VB5.2 reference point specification *This Recommendation includes one diskette containing the SDL process diagrams corresponding to the VB5.2 reference point.*	
G.967.3	03-2000	V-interfaces at the service node (SN) : Protocol implementation conformance statements for interfaces at VB5 reference points	
G.971	04-2000	...General features of optical fibre submarine cable systems	

G.972	10-2000	Definition of terms relevant to optical fibre submarine cable systems	
G.973	11-1996	Characteristics of repeaterless optical fibre submarine cable systems	
G.974	03-1993	Characteristics of regenerative optical fibre submarine cable systems	
G.975	10-2000	Forward error correction for submarine systems	
G.976	10-2000	Test methods applicable to optical fibre submarine cable systems	Available only in PDF, see Disc 1
G.977	04-2000	Characteristics of optically amplified optical submarine cable systems	
G.981	01-1994	PDH optical line systems for the local network	
G.982	11-1996	Optical access networks to support services up to the ISDN primary rate or equivalent bit rates	
G.983.1	10-1998	Broadband optical access systems based on Passive Optical Networks (PON)	
G.983.1 Amendment 1	11-2001	Amendment 1	Pre-published.
G.983.1 Corrigendum 1	07-1999		
G.983.2	04-2000	ONT management and control interface specification for ATM PON	
G.983.2 Amendment 1	11-2001	Amendment 1	Pre-published.
G.983.2 Amendment 2	11-2001	Amendment 2	Pre-published.
G.983.3	03-2001	A broadband optical access system with increased service capability by wavelength allocation	
G.983.4	11-2001	A broadband optical access system with increased service capability using dynamic bandwidth assignment	Pre-published.
G.983.5	01-2002	A broadband optical access system with enhanced survivability	Pre-published.
G.983.7	11-2001	ONT management and control interface specification for DBA B-PON system	Pre-published.
G.989.1	02-2001	Phoneline networking transceivers - Foundation	
G.989.2	11-2001	Phoneline networking transceivers - Payload format and link layer requirements	Pre-published.
G.991.1	10-1998	High bit rate Digital Subscriber Line (HDSL) transceivers	
G.991.2	02-2001	Single-Pair High-Speed Digital Subscriber Line (SHDSL) transceivers	Pre-published.
G.991.2 Amendment 1	11-2001	Amendment 1	Pre-published.
G.992.1	07-1999	Asymmetrical digital subscriber line (ADSL) transceivers	
G.992.1 Annex H	10-2000	Specific requirements for a synchronized symmetrical DSL (SSDSL) system operating in the same cable binder as ISDN as defined in G.961 Appendix III	
G.992.1 Corrigendum 1	11-2001	Corrigendum 1	Pre-published.
G.992.2	07-1999	Splitterless asymmetric digital subscriber line (ADSL) transceivers	
G.993.1	11-2001	Very-high-speed digital subscriber line foundation	Pre-published.
G.994.1	02-2001	Handshake procedures for Digital Subscriber Line (DSL) transceivers	Pre-published.
G.995.1	02-2001	Overview of digital subscriber line (DSL) Recommendations	
G.995.1 Amendment 1	11-2001	Amendment 1	Pre-published.
G.996.1	02-2001	Test procedures for digital subscriber line (DSL) transceivers	Pre-published.
G.997.1	07-1999	Physical layer management for digital subscriber line (DSL) transceivers	
G.1000	11-2001	Communications quality of service: A framework and definitions	Pre-published.
G.1010	11-2001	End-user multimedia QoS categories	Pre-published.
G.7041/Y.1303	12-2001	Generic framing procedure (GFP)	Pre-published.
G.7042/Y.1305	11-2001	Link capacity adjustment scheme (LCAS) for virtual concatenated signals	Pre-published.
G.7710/Y.1701	11-2001	Common equipment management function requirements	Pre-published.
G.7712/Y.1703	11-2001	Architecture and specification of data communication network	Pre-published.
G.7713/Y.1704	12-2001	Distributed call and connection management (DCM)	Pre-published.
G.7714/Y.1705	11-2001	Generalized automatic discovery techniques	Pre-published.
G.8080/Y.1304	11-2001	Architecture for the automatically switched optical network (ASON)	Pre-published.
G.8251	11-2001	The control of jitter and wander within the optical transport network (OTN)	Pre-published.
G.supp37	10-1998	ITU-T Recommendation G.763 digital circuit multiplication equipment (DCME) tutorial and dimensioning	
G.supp38	10-1998	Variable bit rate calculations for ITU-T Recommendation G.767 Digital Circuit Multiplication Equipment (DCME)	

Series H: Audiovisual and multimedia systems

Number	Approved in	Title	Status
H.100	11-1988	Visual telephone systems	
H.110	11-1988	Hypothetical reference connections for videoconferencing using primary digital group transmission	
H.120	03-1993	Codecs for videoconferencing using primary digital group transmission	
H.130	11-1988	Frame structures for use in the international interconnection of digital codecs for videoconferencing or visual telephony	
H.140	11-1988	A multipoint international videoconference system	
H.200	03-1993	Framework for Recommendations for audiovisual services	
H.221	05-1999	Frame structure for a 64 to 1920 kbit/s channel in audiovisual teleservices *Covering note, May 2000: Erratum*	
H.221 Erratum	12-2000	Erratum to Recommendation ITU-T H.221 (05/99)	
H.222.0	02-2000	Information technology - Generic coding of moving pictures and associated audio information: Systems *This edition of ITU-T H.222.0 consolidates H.222.0 (07/1995) and its Amendments 1 and 2 (11/1996), 3 and 4 (02/1998), 5 and 6 (05/1999), 7 (02/2000) and Corrigendum 1 (02/1998)*	
H.222.0 Corrigendum 1	03-2001	Information technology - Generic coding of moving pictures and associated audio information: Systems	
H.222.1	03-1996	Multimedia multiplex and synchronization for audiovisual communication in ATM environments	
H.223	07-2001	Multiplexing protocol for low bit rate multimedia communication	Pre-published.
H.224	02-2000	A real time control protocol for simplex applications using the H.221 LSD/HSD/HLP channels	
H.225.0	11-2000	Call signalling protocols and media stream packetization for packet -based multimedia communication systems	Pre-published.
H.226	09-1998	Channel aggregation protocol for multilink operation on circuit-switched networks	
H.230	05-1999	Frame-synchronous control and indication signals for audiovisual systems	
H.231	07-1997	Multipoint control units for audiovisual systems using digital channels up to 1920 kbit/s	
H.233	07-1995	Confidentiality system for audiovisual services	
H.234	11-1994	Encryption key management and authentication system for audiovisual services	
H.235	11-2000	Security and encryption for H-Series (H.323 and other H.245-based) multimedia terminals	
H.242	05-1999	System for establishing communication between audiovisual terminals using digital channels up to 2 Mbit/s	
H.243	02-2000	Procedures for establishing communication between three or more audiovisual terminals using digital channels up to 1920 kbit/s	
H.243 Corrigendum 1	11-2000	Procedures for establishing communication between three or more audiovisual terminals using digital channels up to 1920 kbit/s	
H.244	07-1995	Synchronized aggregation of multiple 64 or 56 kbit/s channels	
H.245	07-2001	Control protocol for multimedia communication	Pre-published.
H.246	02-1998	Interworking of H-Series multimedia terminals with H-Series multimedia terminals and voice/voiceband terminals on GSTN and ISDN	
H.246 Annex C	02-2000	ISDN User Part Function - H.225.0 Interworking	
H.246 Annex E.1	11-2000	General Inter-Working Function (IWF) between Mobile Application Part and H.225.0	Pre-published.
H.246 Annex E.2	11-2000	Inter-Working Function (IWF) between Ansi-41 (Americas) Mobile Application Part and H.225.0	Pre-published.
H.246 Annex F	07-2001	H.323 - H.324 Interworking	Pre-published.
H.247	09-1998	Multipoint extension for broadband audiovisual communication systems and terminals	
H.248	06-2000	Gateway control protocol	
H.248 Annex F	11-2000	Facsimile, text conversation and call discrimination packages	Pre-published.
H.248 Annex G	11-2000	User interface elements and actions packages	Pre-published.
H.248 Annex H	11-2000	Transport over SCTP	Pre-published.
H.248 Annex I	11-2000	Transport over ATM	Pre-published.
H.248 Annex J	11-2000	Dynamic Tone Definition package	Pre-published.
H.248 Annex K	11-2000	Generic Announcement package	Pre-published.
H.248 Annex L	07-2001	Error Codes and Service Change Reason Description	Pre-published.
H.248 Annex M2	07-2001	Annex M2: Media Gateway resource congestion handling package	
H.248 Annex M4	07-2001	Annex M4: H.248 packages for H.323 and H.324 interworking	
H.248 Supplement 2	06-2001	H.248 packages guide release 1 Supplement 2	Pre-published.
H.261	03-1993	Video codec for audiovisual services at p x 64 kbit/s	
H.262	02-2000	Information technology - Generic coding of moving pictures and associated audio information: Video *This edition of ITU-T H.262 consolidates H.262 (07/1995) and its Amendments 1 and 2 (11/1996), 3 and 4 (02/1998), 5 (05/1999), 6 (02/2000) and Corrigenda 1 and 2 (11/1996)*	

H.262 Amendment 1	11-2000	Amendment 1: Video elementary stream content description data	
H.262 Corrigendum 1	11-2000	Technical Corrigendum 1	
H.263	02-1998	Video coding for low bit rate communication	
H.263 Annex U	11-2000	Enhanced reference picture selection mode	
H.263 Annex V	11-2000	Data partitioned slice (DPS)	
H.263 Annex W	11-2000	Additional supplemental enhancement information	
H.263 Annex X	04-2001	Annex X: Profiles and levels definition	
H.263 Appendix 2	06-2001	Appendix II: Recommended optional enhancement	
H.263 Appendix 3	06-2001	Appendix III: Examples for H.263 encoder/decoder implementations	Pre-published.
H.281	11-1994	A far end camera control protocol for videoconferences using H.224	
H.282	05-1999	Remote device control protocol for multimedia applications	
H.283	05-1999	Remote device control logical channel transport	
H.310	09-1998	Broadband audiovisual communication systems and terminals	
H.320	05-1999	Narrow-band visual telephone systems and terminal equipment	
H.321	02-1998	Adaptation of H.320 visual telephone terminals to B -ISDN environments	
H.322	03-1996	Visual telephone systems and terminal equipment for local area networks which provide a guaranteed quality of service	
H.323	11-2000	Packet-based multimedia communications systems	Pre-published.
H.323 Annex I	11-2000	Security for H.323 Annex F	Pre-published.
H.323 Annex L	03-2001	Packet-Based Multimedia Communications Systems	Pre-published.
H.323 Annex M1	11-2000	Tunnelling of signalling protocol (Qsig) in H.323	Pre-published.
H.323 Annex M3	07-2001	Tunnelling of DSS1 through H.323	
H.323 Annex Q	07-2001	Far-end camera control and H.281/H.224	
H.323 Annex R	07-2001	Robustness Methods for H.323 Entities	Pre-published.
H.324	02-1998	Terminal for low bit-rate multimedia communication	
H.324 Annex F	09-1998	Terminal for low bit-rate multimedia communication	
H.324 Annex G	02-2000	Usage of ISO/IEC 14496-1 generic capabilities in H.324 terminals	
H.324 Annex H	11-2000	Mobile multilink operation	
H.324 Annex I	07-2001	Usage of HTTP generic capability in H.324 terminals	
H.331	03-1993	Broadcasting type audiovisual multipoint systems and terminal equipment	
H.332	09-1998	H.323 extended for loosely coupled conferences	
H.341	05-1999	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.*	
H.450.1	02-1998	Generic functional protocol for the support of supplementary services in H.323	
H.450.2	02-1998	Call transfer supplementary service for H.323	
H.450.3	02-1998	Call diversion supplementary service for H.323	
H.450.4	05-1999	Call hold supplementary service for H.323	
H.450.5	05-1999	Call park and call pickup supplementary services for H.323 *Covering note, May 2000: Erratum*	
H.450.5 Erratum	05-2000	Erratum to Recommendation ITU-T H.450.5 (05/99)	
H.450.6	05-1999	Call waiting supplementary service for H.323	
H.450.7	05-1999	Message waiting indication supplementary service for H.323	
H.450.8	02-2000	Name identification supplementary service for H.323	
H.450.9	11-2000	Call Completion Supplementary Services for H.323	
H.450.10	03-2001	Call offering supplementary services for H.323	
H.450.11	03-2001	Call intrusion supplementary services	
H.450.12	07-2001	Common Information Additional Network Feature for H.323	
H.460.2	07-2001	Number Portability interworking between H.323 and SCN networks	
H.supp1	05-1999	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.*	

Series I: Integrated services digital network

Number	Approved in	Title	Status
I.112	03-1993	Vocabulary of terms for ISDNs	
I.113	06-1997	Vocabulary of terms for broadband aspects of ISDN	
I.114	03-1993	Vocabulary of terms for universal personal telecommunication	
I.120	03-1993	Integrated services digital networks (ISDNs)	
I.121	04-1991	Broadband aspects of ISDN	
I.122	03-1993	Framework for frame mode bearer services	
I.130	11-1988	Method for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN	
I.140	03-1993	Attribute technique for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN	
I.141	11-1988	ISDN network charging capabilities attributes	
I.150	02-1999	B-ISDN asynchronous transfer mode functional characteristics	
I.200	11-1988	Guidance to the I.200-Series of Recommendations	
I.210	03-1993	Principles of telecommunication services supported by an ISDN and the means to describe them	
I.211	03-1993	B-ISDN service aspects	
I.220	11-1988	Common dynamic description of basic telecommunication services	
I.221	03-1993	Common specific characteristics of services	
I.230	11-1988	Definition of bearer service categories	
I.231	***Circuit-mode bearer service categories***		
I.231.1	11-1988	Circuit-mode bearer service categories : Circuit-mode 64 kbit/s unrestricted, 8 kHz structured bearer service	
I.231.2	11-1988	Circuit-mode bearer service categories : Circuit-mode 64 kbit/s, 8 kHz structured bearer service usable for speech information transfer	
I.231.3	11-1988	Circuit-mode bearer service categories : Circuit-mode 64 kbit/s, 8 kHz structured bearer service usable for 3.1 kHz audio information transfer	
I.231.4	11-1988	Circuit-mode bearer service categories : Circuit-mode, alternate speech / 64 kbit/s unrestricted, 8 kHz structured bearer service	
I.231.5	11-1988	Circuit-mode bearer service categories : Circuit-mode 2 x 64 kbit/s unrestricted, 8 kHz structured bearer service	
I.231.6	07-1996	Circuit-mode bearer service categories : Circuit-mode 384 kbit/s unrestricted, 8 kHz structured bearer service	
I.231.7	07-1996	Circuit-mode bearer service categories : Circuit-mode 1536 kbit/s unrestricted, 8 kHz structured bearer service	
I.231.8	07-1996	Circuit-mode bearer service categories : Circuit-mode 1920 kbit/s unrestricted, 8 kHz structured bearer service	
I.231.9	03-1993	Circuit-mode bearer service categories : Circuit-mode 64 kbit/s 8 kHz structured multi-use bearer service	
I.231.10	08-1992	Circuit-mode bearer service categories : Circuit-mode multiple-rate unrestricted 8 kHz structured bearer service	
I.232	***Packet-mode bearer services categories***		
I.232.1	11-1988	Packet-mode bearer services categories : Virtual call and permanent virtual circuit bearer service category	
I.232.3	03-1993	Packet-mode bearer services categories : User signalling bearer service category (USBS)	
I.233	***Frame mode bearer services***		
I.233.1-2	10-1991	Frame mode bearer services	
I.233.1 Annex F	07-1996	Frame mode bearer services : Frame relay multicast	
I.240	11-1988	Definition of teleservices	
I.241	***Teleservices supported by an ISDN***		
I.241.1	11-1988	Teleservices supported by an ISDN : Telephony	
I.241.2	11-1988	Teleservices supported by an ISDN : Teletex	
I.241.3	11-1988	Teleservices supported by an ISDN : Telefax 4	
I.241.4	11-1988	Teleservices supported by an ISDN : Mixed mode	
I.241.5	11-1988	Teleservices supported by an ISDN : Videotex	
I.241.6	11-1988	Teleservices supported by an ISDN : Telex	
I.241.7	03-1993	Teleservices supported by an ISDN : Telephony 7 kHz teleservice	
I.241.8	10-1995	Teleservices supported by an ISDN : Teleaction stage one service description	
I.250	11-1988	Definition of supplementary services	
I.251	***Number identification supplementary services***		
I.251.1	08-1992	Number identification supplementary services : Direct-dialling-In	Available only in PDF, see Disc 1

I.251.2	08-1992	Number identification supplementary services : Multiple Subscriber Number
I.251.3	08-1992	Number identification supplementary services : Calling Line Identification Presentation
I.251.4	08-1992	Number identification supplementary services : Calling Line Identification Restriction
I.251.5	02-1995	Number identification supplementary services : Connected Line Identification Presentation (COLP)
I.251.6	02-1995	Number identification supplementary services : Connected Line Identification Restriction (COLR)
I.251.7	08-1992	Number identification supplementary services : Malicious call Identification
I.251.8	08-1992	Number identification supplementary services : Sub-addressing supplementary service
I.251.9	07-1996	Number identification supplementary services : Calling name identification presentation
I.251.10	07-1996	Number identification supplementary services : Calling name identification restriction
I.252	***Call offering supplementary services***	
I.252.1	11-1988	Call offering supplementary services : Call Transfer
I.252.2	08-1992	Call offering supplementary services : Call Forwarding Busy
I.252.3	08-1992	Call offering supplementary services : Call Forwarding No Reply
I.252.4	08-1992	Call offering supplementary services : Call Forwarding Unconditional
I.252.5	08-1992	Call offering supplementary services : Call Deflection
I.252.6	11-1988	Call offering supplementary services : Line Hunting (LH)
I.252.7	05-1997	Call offering supplementary services : Explicit call transfer
I.253	***Call completion supplementary services***	
I.253.1	11-1988	Call completion supplementary services : Call waiting (CW) supplementary service
I.253.2	08-1992	Call completion supplementary services : Call Hold
I.253.3	07-1996	Call completion supplementary services : Completion of calls to busy subscribers
I.253.4	07-1996	Call completion supplementary services : Completion of calls on no reply
I.254	***Multiparty supplementary services***	
I.254.1	11-1988	Multiparty supplementary services : Conference calling (CONF)
I.254.2	08-1992	Multiparty supplementary services : Three-Party Supplementary Service
I.254.5	05-1997	Multiparty supplementary services : Meet-me conference
I.255	***Community of interest supplementary services***	
I.255.1	08-1992	Community of interest supplementary services : Closed User Group
I.255.2	07-1996	Community of interest supplementary services : Support of Private Numbering Plans
I.255.3	07-1990	Community of interest supplementary services : Multi-level precedence and preemption service (MLPP)
I.255.4	07-1990	Community of interest supplementary services : Priority service
I.255.5	08-1992	Community of interest supplementary services : Outgoing call barring
I.256	***Charging supplementary services***	
I.256.2a	03-1993	Charging supplementary services : Advice of charge: charging information at call set-up time (AOC-S)
I.256.2b	03-1993	Charging supplementary services : Advice of charge: charging information during the call (AOC-D)
I.256.2c	03-1993	Charging supplementary services : Advice of charge: charging information at the end of the call (AOc-E)
I.256.3	08-1992	Charging supplementary services : Reverse charging
I.257	***Additional information transfer supplementary services***	
I.257.1	10-1995	Additional information transfer supplementary services : User-to-User Signalling (UUS)
I.258	***Mobility and modification supplementary services***	
I.258.1	10-1995	Mobility and modification supplementary services : Terminal portability (TP)
I.258.2	02-1995	Mobility and modification supplementary services : In-call modification (IM)
I.259	***Screening supplementary services***	
I.259.1	07-1996	Screening supplementary services : Address screening (ADS)
I.310	03-1993	ISDN - Network functional principles
I.311	08-1996	B-ISDN general network aspects
I.311 Amendment 1	03-2000	
I.312/Q.1201	10-1992	Principles of intelligent network architecture *This Recommendation is published with the double number Q.1201 and I.312*
I.313	09-1997	B-ISDN network requirements
I.320	11-1993	ISDN protocol reference model
I.321	04-1991	B-ISDN protocol reference model and its application *Covering note, May 2000: Erratum*
I.322	02-1999	Generic protocol reference model for telecommunication networks
I.324	10-1991	ISDN network architecture
I.325	03-1993	Reference configurations for ISDN connection types
I.326	11-1995	Functional architecture of transport networks based on ATM
I.327	03-1993	B-ISDN functional architecture
I.328/Q.1202	09-1997	Intelligent network - Service plane architecture *This Recommendation is published with the double number Q.1202 and I.328*
I.329/Q.1203	09-1997	Intelligent network - Global functional plane architecture *This Recommendation is published with the double number Q.1203 and I.329. For more details see I.329*

I.330	11-1988	ISDN numbering and addressing principles
I.331	05-1997	The international public telecommunication numbering plan *This Recommendation is published under alias number E.164*
I.333	03-1993	Terminal selection in ISDN
I.334	11-1988	Principles relating ISDN numbers/sub-addresses to the OSI reference model network layer addresses
I.340	11-1988	ISDN connection types
I.350	03-1993	General aspects of quality of service and network performance in digital networks, including ISDNs
I.351/Y.801/Y.1501	10-2000	Relationships among ISDN, Internet protocol, and GII performance recommendations
I.352	03-1993	Network performance objectives for connection processing delays in an ISDN
I.353	08-1996	Reference events for defining ISDN and B-ISDN performance parameters
I.354	03-1993	Network performance objectives for packet-mode communication in an ISDN
I.355	10-2000	ISDN 64 kbit/s connection type availability performance
I.356	03-2000	B-ISDN ATM layer cell transfer performance
I.357	11-2000	B-ISDN semi-permanent connection availability
I.358	06-1998	Call processing performance for switched Virtual Channel Connections (VCCs) in a B-ISDN
I.359	02-1999	Accuracy and dependability of ISDN 64 kbit/s circuit-mode connection types
I.361	02-1999	B-ISDN ATM layer specification
I.363	***B-ISDN ATM Adaptation Layer specification***	
I.363.1	08-1996	B-ISDN ATM Adaptation Layer specification : Type 1 AAL
I.363.2	11-2000	B-ISDN ATM Adaptation Layer specification : Type 2 AAL
I.363.3	08-1996	B-ISDN ATM Adaptation Layer specification : Type 3/4 AAL
I.363.5	08-1996	B-ISDN ATM Adaptation Layer specification : Type 5 AAL
I.364	02-1999	Support of the broadband connectionless data bearer service by the B-ISDN
I.365	***B-ISDN ATM adaptation layer sublayers***	
I.365.1	11-1993	B-ISDN ATM adaptation layer sublayers : Frame relaying service specific convergence sublayer (FR-SSCS)
I.365.2	11-1995	B-ISDN ATM adaptation layer sublayers : Service-specific coordination function to provide the connection-oriented network service
I.365.3	11-1995	B-ISDN ATM adaptation layer sublayers : Service-specific coordination function to provide the connection-oriented transport service
I.365.4	08-1996	B-ISDN ATM adaptation layer sublayers : Service-specific convergence sublayer for HDLC applications
I.366.1	06-1998	Segmentation and Reassembly Service Specific Convergence Sublayer for the AAL type 2
I.366.2	11-2000	AAL type 2 service specific convergence sublayer for narrow-band services
I.370	10-1991	Congestion management for the ISDN frame relaying bearer service
I.371	03-2000	Traffic control and congestion control in B-ISDN
I.371.1	11-2000	Guaranteed frame rate ATM transfer capability
I.372	03-1993	Frame relaying bearer service network-to-network interface requirements
I.373	03-1993	Network capabilities to support universal personal telecommunication (UPT)
I.375	***Network capabilities to support multimedia services***	
I.375.1	06-1998	Network capabilities to support multimedia services : General aspects
I.375.2	06-1998	Network capabilities to support multimedia services : Example of multimedia retrieval service class - Video-on-demand service using an ATM based network
I.375.3	03-2000	Network capabilities to support multimedia services : Example of multimedia distribution service class - Switched digital broadcasting
I.376	03-1995	ISDN network capabilities for the support of the teleaction service
I.377	10-2000	Network requirements to support charging and accounting in B-ISDN
I.380	02-1999	Internet protocol data communication service - IP packet transfer and availability performance parameters
I.381	03-2001	ATM Adaptation Layer (ALL) performance
I.410	11-1988	General aspects and principles relating to Recommendations on ISDN user-network interfaces
I.411	03-1993	ISDN user-network interfaces - Reference configurations
I.412	11-1988	ISDN user-network interfaces - Interface structures and access capabilities
I.413	03-1993	B-ISDN user-network interface
I.414	09-1997	Overview of Recommendations on Layer 1 for ISDN and B-ISDN customer accesses
I.420	11-1988	Basic user-network interface
I.421	11-1988	Primary rate user-network interface
I.430	11-1995	Basic user-network interface - Layer 1 specification
I.431	03-1993	Primary rate user-network interface - Layer 1 specification
I.431 Amendment 1	06-1997	
I.432	***B-ISDN user-network interface - Physical layer specification***	
I.432.1	02-1999	B-ISDN user-network interface - Physical layer specification : General characteristics
I.432.2	02-1999	B-ISDN user-network interface - Physical layer specification : 155 520 kbit/s and 622 080 kbit/s operation
I.432.3	02-1999	B-ISDN user-network interface - Physical layer specification : 1544 kbit/s and 2048 kbit/s operation
I.432.4	02-1999	B-ISDN user-network interface - Physical layer specification : 51 840 kbit/s operation

I.432.5	06-1997	B-ISDN user-network interface - Physical layer specification : 25 600 kbit/s operation
I.460	02-1999	Multiplexing, rate adaption and support of existing interfaces
I.464	02-1999	Multiplexing, rate adaption and support of existing interfaces for restricted 64 kbit/s transfer capability
I.470	11-1988	Relationship of terminal functions to ISDN
I.480	03-2000	1+1 protection switching for cell-based physical layer
I.500	03-1993	General structure of the ISDN interworking Recommendations
I.501	03-1993	Service interworking
I.510	03-1993	Definitions and general principles for ISDN interworking
I.511	11-1988	ISDN-to-ISDN layer 1 internetwork interface
I.515	03-1993	Parameter exchange for ISDN interworking
I.520	03-1993	General arrangements for network interworking between ISDNs
I.525	08-1996	Interworking between networks operating at bit rates less than 64 kbit/s with 64 kbit/s-based ISDN and B-ISDN
I.530	03-1993	Network interworking between an ISDN and a public switched telephone network (PSTN)
I.555	09-1997	Frame Relaying Bearer Service interworking
I.570	03-1993	Public/private ISDN interworking
I.571	08-1996	Connection of VSAT based private networks to the public ISDN
I.572	03-2000	VSAT interconnection with the PSTN
I.580	11-1995	General arrangements for interworking between B-ISDN and 64 kbit/s based ISDN
I.581	09-1997	General arrangements for B-ISDN interworking
I.601	11-1988	General maintenance principles of ISDN subscriber access and subscriber installation
I.610	02-1999	B-ISDN operation and maintenance principles and functions
I.610 Amendment 1	03-2000	
I.610 Corrigendum 1	03-2000	
I.620	10-1996	Frame relay operation and maintenance principles and functions
I.630	02-1999	ATM protection switching
I.630 Amendment 1	03-2000	
I.630 Corrigendum 1	03-2000	
I.731	10-2000	Types and general characteristics of ATM equipment
I.732	10-2000	Functional characteristics of ATM equipment
I.741	07-1999	Interworking and interconnection between ATM and switched telephone networks for the transmission of speech, voiceband data and audio signals
I.751	03-1996	Asynchronous transfer mode management of the network element view
I.761	03-2000	Inverse multiplexing for ATM (IMA)
I.762	03-2000	ATM over fractional physical links
I.supp1	03-1998	Generic service descriptions for ten supplementary services defined in I.250 - Series Recommendations

Series J: Transmission of television, sound programme and other multimedia signals

Number	Approved in	Title	Status
J.1	09-1999	Terms, definitions and acronyms applicable to the transmission of television and sound - programme signals and of related data signals	
J.2	09-1999	Guidelines on the use of some ITU-T Recommendations in the J series	
J.11	11-1988	Hypothetical reference circuits for sound-programme transmissions *Formerly ITU-R Rec. CMTT 502-2*	
J.12	11-1988	Types of sound-programme circuits established over the international telephone network	
J.13	11-1988	Definitions for international sound-programme circuits	
J.14	11-1988	Relative levels and impedances on an international sound-programme connection	
J.15	11-1988	Lining-up and monitoring an international sound-programme connection	
J.16	11-1988	Measurement of weighted noise in sound-programme circuits	
J.17	11-1988	Pre-emphasis used on sound-programme circuits	
J.18	11-1988	Crosstalk in sound-programme circuits set up on carrier systems	
J.19	11-1988	A conventional test signal simulating sound-programme signals for measuring interference in other channels *Formerly ITU-R Rec. CMTT 571-2*	
J.21	08-1994	Performance characteristics of 15 kHz-type sound-programme circuits - Circuits for high quality monophonic and stereophonic transmissions *Formerly ITU-R Rec. CMTT 505-5*	
J.23	11-1988	Performance characteristics of 7 kHz type (narrow bandwidth) sound-programme circuits *Formerly ITU-R Rec. CMTT 503-4*	
J.24	02-1982	Modulation of signals carried by sound-program circuits by interfering signals from power supply sources *Published as ITU-R Rec. CMTT 474-1 in CCIR Recommendations, Volume XII, Düsseldorf, 1990*	
J.25	05-1986	Estimation of transmission performance of sound-programme circuits shorter or longer than the hypothetical reference circuit *Published as ITU-R Rec. CMTT 605-1 in CCIR Recommendations, Volume XII, Düsseldorf, 1990*	
J.26	06-1990	Test signals to be used on international sound-programme connections *Published as ITU-R Rec. CMTT 645-1 in CCIR Recommendations, Volume XII, Düsseldorf, 1990*	
J.27	06-1990	Signals for the alignment of international sound-programme connections *Published as ITU-R Rec. CMTT 661-1 in CCIR Recommendations, Volume XII, Düsseldorf, 1990*	
J.41	11-1988	Characteristics of equipment for the coding of analogue high quality sound programme signals for transmission on 384 kbit/s channels	
J.42	11-1988	Characteristics of equipment for the coding of analogue medium quality sound-programme signals for transmission on 384-kbit/s channels	
J.51	08-1994	General principles and user requirements for the digital transmission of high quality sound programmes *Formerly ITU-R Rec. CMTT 659-1*	
J.52	07-1996	Digital transmission of high-quality sound-programme signals using one, two or three 64 kbit/s channels per mono signal (and up to six per stereo signal)	
J.52 Amendment 1	09-1999	New Appendix II - Extracts from EBU specification of an ISDN Codec capable of delivering high-quality audio	
J.53	05-2000	Sampling frequency to be used for the digital transmission of high-quality sound-programme signals	
J.54	05-1986	Transmission of analogue high-quality sound-programme signals on mixed analogue-and-digital circuits using 384 kbit/s channels *Published as ITU-R Rec. CMTT 660 in CCIR Recommendations, Volume XII, Düsseldorf, 1990*	
J.55	06-1990	Digital transmission of high-quality sound-programme signals on distribution circuits using 480 kbit/s (496 kbit/s) per audio channel *Published as ITU-R Rec. CMTT 718 in CCIR Recommendations, Volume XII, Düsseldorf, 1990*	
J.57	06-1990	Transmission of digital studio quality sound signals over H1 channels *Published as ITU-R Rec. CMTT 724 in CCIR Recommendations, Volume XII, Düsseldorf, 1990*	
J.61	06-1990	Transmission performance of television circuits designed for use in international connections *Published as ITU-R Rec. CMTT 567-3 in CCIR Recommendations, Volume XII, Düsseldorf, 1990*	Available only in PDF, see Disc 1
J.62	02-1978	Single value of the signal-to-noise ratio for all television systems *Published as ITU-R Rec. CMTT 568 in CCIR Recommendations, Volume XII, Düsseldorf, 1990*	
J.63	06-1990	Insertion of test signals in the field-blanking interval of monochrome and colour television signals *Published as ITU-R Rec. CMTT 473-5 in CCIR Recommendations, Volume XII, Düsseldorf, 1990*	
J.64	02-1986	Definitions of parameters for simplified automatic measurement of television insertion test signals *Published as ITU-R Rec. CMTT 569-2 in CCIR Recommendations, Volume XII, Düsseldorf, 1990*	
J.65	02-1978	Standard test signal for conventional loading of a television channel *Published as ITU-R Rec. CMTT 570 in CCIR Recommendations, Volume XII, Düsseldorf, 1990*	
J.66	02-1978	Transmission of one sound programme associated with analogue television signal by means of time division multiplex in the line synchronizing pulse	

		Published as ITU-R Rec. CMTT 572 in CCIR Recommendations, Volume XII, Düsseldorf, 1990	
J.67	03-2001	Test signals and measurement techniques for transmission circuits carrying MAC/packet signals	
J.68	02-1982	Hypothetical reference chain for television transmissions over very long distances *Published as ITU-R Rec. CMTT 603 in CCIR Recommendations, Volume XII, Düsseldorf, 1990*	
J.80	09-1993	Transmission of component-coded digital television signals for contribution-quality applications at bit rates near 140 Mbit/s *Formerly ITU-R Rec. CMTT 721-2*	
J.81	09-1993	Transmission of component-coded digital television signals for contribution-quality applications at the third hierarchical level of ITU-T Recommendation G.702 *Formerly ITU-R Rec. CMTT.723-1*	
J.81 Amendment 1	10-1995	Appendix II to Annex A to Recommendation J.81 - Guidelines for implementation of a complete television codec	
J.81 Amendment 2	03-1998	Appendix IV to Annex A - Results of 34 Mbit/s codec interworking tests (February 1996)	
J.81 Corrigendum 1	10-1996	Corrigendum 1	
J.82	07-1996	Transport of MPEG-2 constant bit rate television signals in B-ISDN	
J.83	04-1997	Digital multi-programme systems for television, sound and data services for cable distribution *Covering note, 3.08.1998: Corrigendum*	
J.84	03-2001	Distribution of digital multi-programme signals for television, sound and data services through SMATV networks	
J.85	06-1990	Digital television transmission over long distances - General principles *Published as ITU-R Rec. CMTT 604-2 in CCIR Recommendations, Volume XII, Düsseldorf, 1990*	
J.86	06-1990	Mixed analogue-and-digital transmission of analogue composite television signals over long distances *Published as ITU-R Rec. CMTT 658-1 in CCIR Recommendations, Volume XII, Düsseldorf, 1990*	
J.87	03-2001	Use of hybrid cable television links for the secondary distribution of television into the user's premises *Available as a prepublished version*	
J.88	09-1999	Transmission of enhanced definition television signals over digital links	
J.89	09-1999	Transport mechanism for component-coded digital television signals using MPEG-2 4:2:2 P@ML including all service elements for contribution and primary distribution	
J.90	05-2000	Electronic programme guides for delivery by digital cable television and similar methods	
J.91	08-1994	Technical methods for ensuring privacy in long-distance international television transmission	
J.92	04-1997	Recommended operating guidelines for point-to-point transmission of television programmes	
J.93	03-1998	Requirements for conditional access in the secondary distribution of digital television on cable television systems	
J.94	11-1998	Service information for digital broadcasting in cable television systems	
J.94 Amendment 1	10-2000	Service information delivered out of band for digital cable television systems *Available as a prepublished version*	
J.94 Amendment 2	03-2001	Annex C: Service information for digital multi-programme system C	Pre-published.
J.95	09-1999	Copy protection of intellectual property for content delivered on cable television systems	
J.96	03-2001	Technical method for ensuring privacy in long-distance international MPEG-2 television transmission conforming to ITU-T J.89	
J.100	06-1990	Tolerances for transmission time differences between the vision and sound components of a television signal *Published as ITU-R Rec. CMTT 717 in CCIR Recommendations, Volume XII, Düsseldorf, 1990*	
J.101	06-1990	Measurement methods and test procedures for teletext signals *Published as ITU-R Rec. CMTT 720 in CCIR Recommendations, Volume XII, Düsseldorf, 1990*	
J.110	04-1997	Basic principles for a worldwide common family of systems for the provision of interactive television services	
J.111	03-1998	Network independent protocols for interactive systems *Guidelines for the implementation of Rec. J.111 may be found in Supplement 3 to J series (1998).*	
J.112	03-1998	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).*	
J.112 Annex A	03-2001	Digital video broadcasting: DVB interaction channel for cable TV distribution systems	Pre-published.
J.112 Annex B	03-2001	Data-over-cable service interface specifications: Radio frequency interface specification	Pre-published.
J.113	03-1998	Digital video broadcasting interaction channel through the PSTN/ISDN	
J.114	09-1999	Interaction channel using digital enhanced cordless telecommunications	
J.115	09-1999	Interaction channel using the global system for mobile communications	
J.116	05-2000	Interaction channel for local multipoint distribution systems *Available as a prepublished version*	
J.117	09-1999	Home digital network interface specification	Available only in PDF, see Disc 1
J.118	05-2000	Access systems for interactive services on SMATV/MATV networks	
J.120	05-2000	Recommendation J.120 (05/00) - Distribution of sound and television programs over the IP network	
J.131	03-1998	Transport of MPEG-2 signals in PDH networks	
J.132	03-1998	Transport of MPEG-2 signals in SDH networks	
J.140	03-1998	Subjective picture quality assessment for digital cable television systems	
J.141	09-1999	Performance indicators for data services delivered over digital cable television systems	
J.142	05-2000	Methods for the measurement of parameters in the transmission of digital cable television signals	
J.143	05-2000	User requirements for objective perceptual video quality measurements in digital cable television	

J.144	03-2001	Objective perceptual video quality measurement techniques for digital cable television in the presence of a full reference	Pre-published.
J.145	03-2001	Measurement and control of the quality of service for sound transmission over contribution and distribution networks	
J.150	03-1998	Operational functionalities for the delivery of digital multiprogramme television, sound and data services through multichannel, multipoint distribution systems (MMDS)	
J.150 Amendment 1	09-1999	Additions to Recommendation J.150 to also encompass local multipoint distribution systems (LMDS)	
J.150 Amendment 2	03-2001	Operational functionalities for the delivery of digital multiprogramme television, sound and data services through multichannel, multipoint distribution systems (MMDS)	
J.151	10-2000	RF remodulator interface for digital television	
J.161	03-2001	Audio codec requirements for the provision of bidirectional audio service over cable television networks using cable modems	
J.162	03-2001	Network call signalling protocol for the delivery of time critical services over cable television networks using cable modems	Pre-published.
J.163	03-2001	Dynamic quality of service for the provision of real time services over cable television networks using cable modems	
J.164	03-2001	Event message requirements for the support of real-time services over cable television networks using cable modems	
J.166	03-2001	IPCablecom management information base (MIB) framework	Pre-published.
J.167	03-2001	Media terminal adapter (MTA) device provisioning requirements for the delivery of real time services over cable television networks using cable modems	Pre-published.
J.168	03-2001	IPCablecom Media Terminal Adapter (MTA) MIB Requirement	Pre-published.
J.169	03-2001	IPCablecom Network Call Signaling (NCS) MIB Requirements	Pre-published.
J.180	05-2000	User requirements for statistical multiplexing of several programmes on a transmission channel	
J.181	03-2001	Digital program insertion cueing message for cable television systems	
J.182	03-2001	Parameter sets for analogue interface specifications for the interconnection of set -top-boxes and presentation devices in the home	
J.183	03-2001	Time division multiplexing of multiple MPEG -2 transport streams over cable television systems	
J.184	03-2001	Digital broadband delivery system: Out-of-band transport	Pre-published.
J.200	03-2001	Worldwide common core - Application environment for digital interactive television services	
J.supp1	11-1998	Example of linking options between annexes of ITU -T Recommendation J.112 and annexes of ITU-T Recommendation J.83	
J.supp2	11-1998	Guidelines for the implementation of Annex A of Recommendation J.112, "Transmission systems for interactive cable television services" - Example of Digital Video Broadcasting (DVB) interaction channel for cable television distribution	
J.supp3	11-1998	Guidelines for the implementation of Recommendation J.111 "Network independent protocols" - Example of Digital Video Broadcasting (DVB) systems for interactive services	
J Supplement 4	09-1999	Terminology for new services in television and sound -programme transmission	
J.supp5	09-1999	Guidelines on the use of some ITU?T Recommendations in the J series	

Series K: Protection against interference

Number	Approved in	Title	Status
K.5	11-1988	Joint use of poles for electricity distribution and for telecommunications	
K.6	11-1988	Precautions at crossings	
K.7	11-1988	Protection against acoustic shock	
K.8	11-1988	Separation in the soil between telecommunication cables and earthing system of power facilities	
K.9	11-1988	Protection of telecommunication staff and plant against a large earth potential due to a neighbouring electric traction line	
K.10	10-1996	Low frequency interference due to unbalance about earth of telecommunication equipment	
K.11	10-1993	Principles of protection against overvoltages and overcurrents	
K.12	02-2000	Characteristics of gas discharge tubes for the protection of telecommunications installations	
K.13	11-1988	Induced voltages in cables with plastic -insulated conductors	
K.14	11-1988	Provision of a metallic screen in plastic-sheathed cables	
K.15	11-1988	Protection of remote-feeding systems and line repeaters against lightning and interference from neighbouring electricity lines	
K.17	11-1988	Tests on power-fed repeaters using solid-state devices in order to check the arrangements for protection from external interference	
K.18	11-1988	Calculation of voltage induced into telecommunication lines from radio station broadcasts and methods of reducing interference	
K.19	11-1988	Joint use of trenches and tunnels for telecommunication and power cables	
K.20	02-2000	Resistibility of telecommunication equipment installed in a telecommunications centre to overvoltages and overcurrents	
K.21	10-2000	Resistibility of telecommunication equipment installed in costumer's premises to overvoltages and overcurrents	
K.22	05-1995	Overvoltage resistibility of equipment connected to an ISDN T/S bus	
K.23	11-1988	Types of induced noise and description of noise voltage parameters for ISDN basic user networks	
K.24	11-1988	Method for measuring radio-frequency induced noise on telecommunications pairs	
K.25	02-2000	Protection of optical fibre cables	
K.26	11-1988	Protection of telecommunication lines against harmful effects from electric power and electrified railway lines	
K.27	05-1996	Bonding configurations and earthing inside a telecommunication building	
K.28	03-1993	Characteristics of semi-conductor arrester assemblies for the protection of telecommunications installations	
K.29	01-1992	Coordinated protection schemes for telecommunication cables below ground	
K.30	03-1993	Positive temperature coefficient (PTc) thermistors	
K.31	03-1993	Bonding configurations and earthing of telecommunication installations inside a subscriber's building	
K.33	10-1996	Limits for people safety related to coupling into telecommunications system from a.c. electric power and a.c. electrified railway installations in fault conditions	
K.34	02-2000	Classification of electromagnetic environmental conditions for telecommunication equipment - Basic EMC Recommendation	
K.35	05-1996	Bonding configurations and earthing at remote electronic sites	
K.36	05-1996	Selection of protective devices	
K.37	02-1999	Low and high frequency EMC mitigation techniques for telecommunication installations and systems - Basic EMC Recommendation	
K.38	10-1996	Radiated emission test procedure for physically large systems	
K.39	10-1996	Risk assessment of damages to telecommunication sites due to lightning discharges	
K.40	10-1996	Protection against LEMP in telecommunications centres	
K.41	05-1998	Resistibility of internal interfaces of telecommunication centres to surge overvoltages	
K.42	05-1998	Preparation of emission and immunity requirements for telecommunication equipment - General principles	
K.43	05-1998	Immunity requirements for telecommunication equipment	
K.43 Corrigendum 1	02-2000	Corrigendum 1	
K.44	02-2000	Resistibility of telecommunication equipment to overvoltages and overcurrents	
K.45	02-2000	Resistibility of access network equipment to overvoltages and overcurrents	
K.46	12-2000	Protection of telecommunication lines using metallic symmetric conductors against lightning induced surges	Pre-published.
K.47	12-2000	Protection of telecommunication lines using metallic conductors against direct lightning discharges	Pre-published.
K.48	02-2000	EMC requirements for each telecommunication network equipment - Product family Recommendation	
K.49	02-2000	Test condition and performance criteria for voice terminal subject to disturbance from digital mobile phone	

K.50	02-2000	Safe limits of operating voltages and currents for telecommunication systems powered over the network
K.51	02-2000	Safety criteria for telecommunication equipment
K.52	02-2000	Guidance on complying with limits for human exposure to electromagnetic fields
K.53	02-2000	Values of induced voltages on telecommunication installations to establish telecom and a.c. power and railway operators responsibilities
K.54	10-2000	Conducted immunity test method and level at fundamental power frequencies

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

Number	Approved in	Title	Status
L.1	11-1988	Construction, installation and protection of telecommunication cables in public networks	
L.2	11-1988	Impregnation of wooden poles	
L.3	11-1988	Armouring of cables	
L.4	11-1988	Aluminium cable sheaths	
L.5	11-1988	Cable sheaths made of metals other than lead or aluminium	
L.6	11-1988	Methods of keeping cables under gas pressure	
L.7	11-1988	Application of joint cathodic protection	
L.8	11-1988	Corrosion caused by alternating current	
L.9	11-1988	Methods of terminating metallic cable conductors	
L.10	11-1988	Optical fibre cables for duct, tunnel, aerial and buried application	
L.11	11-1988	Joint use of tunnels by pipelines and telecommunication cables, and the standardization of underground duct plans	
L.12	05-2000	Optical fibre joints	
L.13	07-1992	Sheath joints and organizers of optical fibre cables in the outside plant	
L.14	07-1992	Measurement method to determine the tensile performance of optical fibre cables under load	
L.15	03-1993	Optical local distribution networks - Factors to be considered for their construction	
L.16	03-1993	Conductive plastic material (CPM) as protective covering for metal cable sheaths	
L.17	06-1995	Implementation of connecting customers into the public switched telephone network (PSTN) via optical fibres	
L.17 Appendix I	02-1997	Examples of possible applications	
L.18	10-1996	Sheath closures for terrestrial copper telecommunication cables	
L.19	10-2000	Copper networks for new services and systems ISDN, HDSL, ADSL and UADSL	
L.20	10-1996	Creation of a fire security code for telecommunication facilities	
L.21	10-1996	Fire detection and alarm systems, detector and sounder devices	
L.22	10-1996	Fire protection	
L.23	10-1996	Fire extinction - Classification and location of fire extinguishing installations and equipment on premises	
L.24	10-1996	Classification of outside plant waste	
L.25	10-1996	Optical fibre cable network maintenance	
L.26	10-1996	Optical fibre cables for aerial application	
L.27	10-1996	Method for estimating the concentration of hydrogen in optical fibre cables	
L.28	10-1996	External additional protection for marinized terrestrial cables	
L.29	01-2002	As-laid report and maintenance/repair log for marinized terrestrial cable installation	Pre-published.
L.30	10-1996	Markers on marinized terrestrial cables	
L.31	10-1996	Optical fibre attenuators	
L.32	10-1998	Protection devices for through-cable penetrations of fire-sector partitions	
L.33	10-1998	Periodic control of fire extinction devices in telecommunication buildings	
L.34	10-1998	Installation of Optical Fibre Ground Wire (OPGW) cable	
L.35	10-1998	Installation of optical fibre cables in the access network	
L.36	10-1998	Single mode fibre optic connectors	
L.37	10-1998	Fibre optic (non-wavelength selective) branching devices	
L.38	09-1999	Use of trenchless techniques for the construction of underground infrastructures for telecommunication cable installation	
L.39	05-2000	Investigation of the soil before using trenchless techniques	
L.40	10-2000	Optical fibre outside plant maintenance support, monitoring and testing system	
L.41	05-2000	Maintenance wavelength on fibres carrying signals	
L.44	10-2000	Electric power supply for equipment installed as outside plant	
L.45	10-2000	Minimizing the effect on the environment from the outside plant in telecommunication networks	
L.46	10-2000	Protection of telecommunication cables and plant from biological attack	
L.47	10-2000	Access facilities using hybrid fibre/copper networks	

Series M: TMN and network maintenance: international transmission systems, telephone circuits, telegraphy, facsimile and leased circuits

Number	Approved in	Title	Status
M.10	10-1992	Scope and application of Recommendations for maintenance of telecommunication networks and services	
M.15	11-1988	Maintenance considerations for new systems	
M.20	10-1992	Maintenance philosophy for telecommunication networks	
M.21	10-1992	Maintenance philosophy for telecommunication services	
M.32	11-1988	Principles for using alarm information for maintenance of international transmission systems and equipment	
M.34	11-1988	Performance monitoring on international transmission systems and equipment	
M.35	11-1988	Principles concerning line-up and maintenance limits	
M.60	03-1993	Maintenance terminology and definitions	
M.70	11-1988	Guiding principles on the general maintenance organization for telephone-type international circuits	
M.75	10-1992	Technical service	
M.80	11-1988	Control stations	
M.85	10-1992	Fault report points	
M.90	11-1988	Sub-control stations	
M.100	11-1988	Service circuits	
M.110	11-1988	Circuit testing	
M.120	11-1988	Access points for maintenance	
M.125	11-1988	Digital loopback mechanisms	
M.160	11-1988	Stability of transmission	
M.320	11-1988	Numbering of the channels in a group	
M.330	11-1988	Numbering of groups within a supergroup	
M.340	11-1988	Numbering of supergroups within a mastergroup	
M.350	11-1988	Numbering of mastergroups within a supermastergroup	
M.380	11-1988	Numbering in coaxial systems	
M.390	11-1988	Numbering in systems on symmetric pair cable	
M.400	11-1988	Numbering in radio-relay links or open-wire line systems	
M.410	11-1988	Numbering of digital blocks in transmission systems	
M.450	11-1988	Bringing a new international transmission system into service	
M.460	11-1988	Bringing international group, supergroup, etc., links into service	
M.470	11-1988	Setting up and lining up analogue channels for international telecommunication services	
M.475	11-1988	Setting up and lining up mixed analogue/digital channels for international telecommunication services	
M.495	11-1988	Transmission restoration and transmission route diversity: Terminology and general principles	
M.496	11-1988	Functional organization for automatic transmission restoration	
M.500	11-1988	Routine maintenance measurements to be made on regulated line sections	
M.510	11-1988	Readjustment to the nominal value of a regulated line section (on a symmetric pair line, a coaxial line or a radio-relay link)	
M.520	11-1988	Routine maintenance on international group, supergroup, etc., links	
M.525	11-1988	Automatic maintenance procedures for international group, supergroup, etc., links	
M.530	11-1988	Readjustment to the nominal value of an international group, supergroup, etc., link	
M.535	11-1988	Special maintenance procedures for multiple destination, unidirectional (MU) group and supergroup links	
M.540	11-1988	Routine maintenance of carrier and pilot generating equipment	
M.556	11-1988	Setting up and initial testing of digital channels on an international digital path or block	
M.560	11-1988	International telephone circuits - Principles, definitions and relative transmission levels	
M.562	11-1988	Types of circuit and circuit section	
M.565	11-1988	Access points for international telephone circuits	
M.570	11-1988	Constitution of the circuit; preliminary exchange of information	
M.580	11-1988	Setting up and lining up an international circuit for public telephony	
M.585	11-1988	Bringing an international digital circuit into service	
M.590	11-1988	Setting up and lining up a circuit fitted with a compandor	
M.600	11-1988	Organization of routine maintenance measurements on circuits	
M.605	11-1988	Routine maintenance schedule for international public telephony circuits	
M.610	11-1988	Periodicity of maintenance measurements on circuits	
M.620	11-1988	Methods for carrying out routine measurements on circuits	
M.630	11-1988	Maintenance of circuits using control chart methods	

M.650	11-1988	Routine line measurements to be made on the line repeaters of audio-frequency sections or circuits
M.660	11-1988	Periodical in-station tests of echo suppressors complying with Recommendations G.161 and G.164
M.665	11-1988	Testing of echo cancellers
M.670	11-1988	Maintenance of a circuit fitted with a compandor
M.675	11-1988	Lining up and maintaining international demand assignment circuits (SPADE)
M.710	11-1988	General maintenance organization for the international automatic and semi-automatic telephone service
M.715	11-1988	Fault report point (circuit)
M.716	11-1988	Fault report point (network)
M.717	11-1988	Testing point (transmission)
M.718	11-1988	Testing point (line signalling)
M.719	11-1988	Testing point (switching and interregister signalling)
M.720	11-1988	Network analysis point
M.721	11-1988	System availability information point
M.722	11-1980	Network management point
M.723	11-1988	Circuit control station
M.724	11-1988	Circuit sub-control station
M.725	11-1988	Restoration control point
M.726	11-1988	Maintenance organization for the wholly digital international automatic and semi-automatic telephone service
M.729	11-1988	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*
M.730	11-1988	Maintenance methods
M.731	11-1988	Subjective testing
M.732	11-1988	Signalling and switching routine maintenance tests and measurements
M.733	11-1988	Transmission routine maintenance measurements on automatic and semi-automatic telephone circuits
M.734	11-1988	Exchange of information on incoming test facilities at international switching centres
M.760	11-1988	Transfer link for common channel Signalling System No. 6
M.762	11-1988	Maintenance of common channel Signalling System No. 6
M.800	11-1988	Use of circuits for voice-frequency telegraphy
M.810	11-1988	Setting up and lining up an international voice-frequency telegraph link for public telegraph circuits (for 50, 100 and 200 baud modulation rates)
M.820	11-1988	Periodicity of routine tests on international voice-frequency telegraph links
M.830	11-1988	Routine measurements to be made on international voice-frequency telegraph links
M.850	11-1988	International time division multiplex (TDM) telegraph systems
M.880	11-1988	International phototelegraph transmission
M.900	11-1988	Use of leased group and supergroup links for wide-spectrum signal transmission (data, facsimile, etc.)
M.910	11-1988	Setting up and lining up an international leased group link for wide-spectrum signal transmission
M.1010	11-1988	Constitution and nomenclature of international leased circuits
M.1012	11-1988	Circuit control station for leased and special circuits
M.1013	11-1988	Sub-control station for leased and special circuits
M.1014	11-1988	Transmission maintenance point (international line) (TMP-IL)
M.1015	11-1988	Types of transmission on leased circuits
M.1016	11-1988	Assessment of the service availability performance of international leased circuits
M.1020	03-1993	Characteristics of special quality international leased circuits with special bandwidth conditioning
M.1025	03-1993	Characteristics of special quality international leased circuits with basic bandwidth conditioning
M.1030	11-1988	Characteristics of ordinary quality international leased circuits forming part of private switched telephone networks
M.1040	11-1988	Characteristics of ordinary quality international leased circuits
M.1045	05-1996	Preliminary exchange of information for the provision of international leased circuits and international data transmission systems
M.1050	06-1998	Lining up an international point-to-point leased circuit with analogue presentation to the user
M.1055	11-1988	Lining up an international multiterminal leased circuit
M.1060	11-1988	Maintenance of international leased circuits
M.1130	10-1992	General definitions and general principles of operation/maintenance procedures to be used in satellite mobile systems
M.1140	10-1992	Maritime mobile telecommunication services via satellite *Replaces M.1100, M.1110, M.1120*
M.1150	04-1997	Maintenance aspects of maritime/land mobile telecommunication store-and-forward services (packet mode) via satellite
M.1160	04-1997	Maintenance aspects of aeronautical mobile telecommunication service via satellite
M.1170	04-1997	Maintenance aspects of mobile digital telecommunication service via satellite
M.1230	05-1996	Method to improve the management of operations and maintenance processes in the International Telephone Network
M.1235	11-1988	Use of automatically generated test calls for assessment of network performance
		Maintenance of international data transmission systems operating in the range 2.4 kbit/s to 140

M.1300	10-1997	Mbit/s	
M.1301	01-2001	General description and operational procedures for international SDH leased circuits	
M.1320	11-1988	Numbering of channels in data transmission systems	
M.1340	02-2000	Performance objectives, allocations and limits for international PDH leased circuits and supporting data transmission links and systems	
M.1340 Corrigendum 1	08-2001	Performance objectives, allocations and limits for international PDH leased circuits and supporting data transmission links and systems	Pre-published.
M.1350	11-1988	Setting up, lining up and characteristics of international data transmission systems operating in the range 2.4 kbit/s to 14.4 kbit/s	
M.1355	11-1988	Maintenance of international data transmission systems operating in the range 2.4 to 14.4 kbit/s	
M.1370	06-1998	Bringing-into-service of international data transmission systems	
M.1380	02-2000	Bringing-into-service of international leased circuits that are supported by international data transmission systems	
M.1385	02-2000	Maintenance of international leased circuits that are supported by international data transmission systems	
M.1400	10-2001	Designations for interconnections among network operators	Pre-published.
M.1510	10-1992	Exchange of contact point information for the maintenance of international services and the international network	
M.1520	10-1992	Standardized information exchange between Administrations	
M.1530	03-1999	Network maintenance information	
M.1532	02-2000	Network maintenance service performance agreement (MSPA)	
M.1535	05-1996	Principles for maintenance information to be exchanged at customer contact point (MICC)	
M.1537	10-1997	Definition of maintenance information to be exchanged at customer contact point (MICC)	
M.1539	03-1999	Management of the grade of network maintenance services at the maintenance service customer contact point (MSCC)	
M.1540	10-1994	Exchange of information for planned outages of transmission systems	
M.1550	10-1992	Escalation procedure	
M.1560	10-1992	Escalation procedure for international leased circuits	
M.2100	07-1995	Performance limits for bringing-into-service and maintenance of international PDH paths, sections and transmission systems	
M.2101	06-2000	Performance limits and objectives for bringing-into-service and maintenance of international SDH paths and multiplex sections	
M.2101.1	04-1997	Performance limits for bringing-into-service and maintenance of international SDH paths and multiplex sections *In spite of the fact that ITU-T M.2101.1 and M.2101 are similar, they are both in force. M.2101.1 will eventually be deleted after PDH items have been transferred from M.2101.1 to M.2101.*	Available only in PDF, see Disc 1
M.2102	02-2000	Maintenance thresholds and procedures for recovery mechanisms (protection and restoration) of international SDH VC trails (paths) and multiplex sections	
M.2110	04-1997	Bringing-into-service of international PDH paths, sections and transmission systems and SDH paths and multiplex sections	
M.2120	02-2000	PDH path, section and transmission system and SDH path and multiplex section fault detection and localization procedures	
M.2130	02-2000	Operational procedures for the maintenance of the transport network	
M.2140	02-2000	Transport network event correlation	
M.2201	03-2001	Performance objectives, allocations and limits for international ATM permanent and semi-permanent virtual path and virtual path connection	
M.3000	02-2000	Overview of TMN Recommendations	
M.3010	02-2000	Principles for a Telecommunications management network	
M.3013	02-2000	Considerations for a telecommunications management network	
M.3016	06-1998	TMN security overview	
M.3020	02-2000	TMN Interface Specification Methodology	
M.3100	07-1995	Generic network information model	
M.3100 Amendment 1	03-1999		
M.3100 Amendment 2	02-2000	Enhancement of M.3100	
M.3100 Amendment 3	01-2001	Definition of the management interface for a generic alarm reporting control (ARC) feature	
M.3100 Amendment 4	08-2001	Definition of the management interface for a bridge-and-roll cross-connect feature	Pre-published.
M.3100 Amendment 5	08-2001	Definition of the management interface for an enhanced cross-connect feature	Pre-published.
M.3100 Corrigendum 1	06-1998	Corrigendum 1	
M.3100 Corrigendum 2	01-2001		Pre-published.
M.3100 Corrigendum 3	08-2001		Pre-published.
M.3101	07-1995	Managed object conformance statements for the generic network information model	
M.3108	***TMN management services for dedicated and reconfigurable circuits network***		
M.3108.1	03-1999	TMN management services for dedicated and reconfigurable circuits network: Information model for management of leased circuit and reconfigurable services	
M.3108.1			

Corrigendum 1	01-2001	Information model for management of leased circuit and reconfigurable services	
M.3108.3	01-2001	TMN management services for dedicated and reconfigurable circuits network: Information model for management of virtual private network service	
M.3120	10-2001	CORBA generic network and NE level information model	Pre-published.
M.3180	10-1992	Catalogue of TMN management information	
M.3200	04-1997	TMN management services and telecommunications managed areas: overview	
M.3207.1	05-1996	TMN management service: maintenance aspects of B-ISDN management	
M.3208	***TMN management services for dedicated and reconfigurable circuits network***		
M.3208.1	10-1997	TMN management services for dedicated and reconfigurable circuits network : Leased circuit services	
M.3208.1 Corrigendum 1	02-2000	Corrigendum 1	
M.3208.2	03-1999	TMN management services for dedicated and reconfigurable circuits network : Connection management of pre-provisioned service link connections to form a leased circuit service	
M.3208.2 Corrigendum 1	01-2001	TMN management services for dedicated and reconfigurable circuits network: Connection management of pre-provisioned service link connections to form a leased circuit service	Pre-published.
M.3208.3	02-2000	TMN management services for dedicated and reconfigurable circuits network : Virtual private network	
M.3210.1	01-2001	TMN management services for IMT-2000 security management	
M.3211.1	05-1996	TMN management service: Fault and performance management of the ISDN access	
M.3300	06-1998	TMN F interface requirements	
M.3320	04-1997	Management requirements framework for the TMN X-Interface	
M.3400	02-2000	TMN Management Functions	
M.3600	10-1992	Principles for the management of ISDNs	
M.3602	10-1992	Application of maintenance principles to ISDN subscriber installations	
M.3603	10-1992	Application of maintenance principles to ISDN basic rate access	
M.3604	10-1992	Application of maintenance principles to ISDN primary rate access	
M.3605	10-1992	Application of maintenance principles to static multiplexed ISDN basic rate access	
M.3610	05-1996	Principles for applying the TMN concept to the management of B-ISDN	
M.3611	04-1997	Test management of the B-ISDN ATM layer using the TMN	
M.3620	10-1992	Principles for the use of ISDN test calls, systems and responders	
M.3621	07-1995	Integrated management of the ISDN customer access	
M.3640	10-1992	Management of the D-channel - Data link layer and network layer	
M.3641	10-1994	Management information model for the management of the data link and network layer of the ISDN D-channel	
M.3650	04-1997	Network performance measurements of ISDN calls	
M.3660	10-1992	ISDN interface management services	
M.4010	10-1992	Inter-Administration agreements on common channel Signalling System No. 6	
M.4030	10-1992	Transmission characteristics for setting up and lining up a transfer link for common channel Signalling System No. 6 (analogue version)	
M.4100	05-1996	Maintenance of common channel Signalling System No. 7	
M.4110	05-1996	Inter-Administration agreements on common channel Signalling System No. 7	

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

Number	Approved in	Title	Status
N.1	03-1993	Definitions for application to international sound-programme and television-sound transmission	
N.2	11-1988	Different types of sound-programme circuit	
N.3	11-1988	Control circuits	
N.4	11-1988	Definition and duration of the line-up period and the preparatory period	
N.5	11-1988	Sound-programme control, sub-control and send reference stations	
N.10	03-1993	Limits for the lining-up of international sound-programme links and connections	
N.11	11-1988	Essential transmission performance objectives for international sound-programme centres (ISPC)	
N.12	11-1988	Measurements to be made during the line-up period that precedes a sound-programme transmission	
N.13	11-1988	Measurements to be made by the broadcasting organizations during the preparatory period	
N.15	11-1988	Maximum permissible power during an international sound-programme transmission	
N.16	11-1988	Identification signal	
N.17	11-1988	Monitoring the transmission	
N.18	11-1988	Monitoring for charging purposes, releasing	
N.21	11-1988	Limits and procedures for the lining-up of a sound-programme circuit	
N.23	11-1988	Maintenance measurements to be made on international sound-programme circuits	
N.51	11-1988	Definitions for application to international television transmissions	
N.52	11-1988	Multiple destination television transmissions and coordination centres	
N.54	11-1988	Definition and duration of the line-up period and the preparatory period	
N.55	03-1993	Organization, responsibilities and functions of control and sub-control international television centres and control and sub-control stations for international television connections, links, circuits and circuit sections	
N.60	03-1993	Nominal amplitude of video signals at video interconnection points	
N.61	11-1988	Measurements to be made before the line-up period that precedes a television transmission	
N.62	03-1993	Tests to be made during the line-up period that precedes a television transmission	
N.63	11-1988	Test signals to be used by the broadcasting organizations during the preparatory period	
N.64	11-1988	Quality and impairment assessment	
N.67	03-1993	Monitoring television transmissions - Use of the field blanking interval	
N.73	11-1988	Maintenance of permanent international television circuits, links and connections	

Series O: Specifications of measuring equipment

Number	Approved in	Title	Status
O.1	02-2000	Scope and application of measurement equipment specifications covered in the O -series Recommendations	
O.3	10-1992	Climatic conditions and relevant tests for measuring equipment	
O.6	11-1988	1020 Hz reference test frequency	
O.9	03-1999	Measuring arrangements to assess the degree of unbalance about earth	
O.11	10-1992	Maintenance access lines	
O.22	10-1992	CCITT automatic transmission measuring and signalling testing equipment ATME No. 2	
O.27	11-1988	In-station echo canceller test equipment	
O.33	07-1995	Automatic equipment for rapidly measuring stereophonic pairs and monophonic sound - programme circuits, links and connections	
O.41	10-1994	Psophometer for use on telephone -type circuits *This Recommendation is also included but not published in P series under alias number P.53*	
O.42	11-1988	Equipment to measure non-linear distortion using the 4-tone intermodulation method	
O.61	11-1988	Simple equipment to measure interruptions on telephone -type circuits	
O.62	11-1988	Sophisticated equipment to measure interruptions on telephone -type circuits	
O.71	11-1988	Impulsive noise measuring equipment for telephone -type circuits *This Recommendation is also included but not published in V series under alias number V.55*	
O.81	11-1988	Group-delay measuring equipment for telephone -type circuits	
O.81 Appendix 1 Erratum	06-2000	Erratum to Recommendation ITU-T O.81/Appendix I (06/98)	
O.81 Appendix I	06-1998	A measuring signal (multitone test signal) for fast measurement of amplitude and phase for telephone type circuits *Covering note, May 2000: Erratum 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.*	
O.82	11-1988	Group-delay measuring equipment for the range 5 to 600 kHz	
O.91	11-1988	Phase jitter measuring equipment for telephone -type circuits	
O.95	11-1988	Phase and amplitude hit counters for telephone -type circuits	
O.111	11-1988	Frequency shift measuring equipment for use on carrier channels	
O.131	11-1988	Quantizing distortion measuring equipment using a pseudo -random noise test signal	
O.132	11-1988	Quantizing distortion measuring equipment using a sinusoidal test signal	
O.133	03-1993	Equipment for measuring the performance of PCM encoders and decoders	
O.150	05-1996	General requirements for instrumentation for performance measurements on digital transmission equipment	
O.151	10-1992	Error performance measuring equipment operating at the primary rate and above	
O.152	10-1992	Error performance measuring equipment for bit rates of 64 kbit/s and N x 64 kbit/s	
O.153	10-1992	Basic parameters for the measurement of error performance at bit rates below the primary rate	
O.161	11-1988	In-service code violation monitors for digital systems	
O.162	10-1992	Equipment to perform in-service monitoring on 2048, 8448, 34 368 and 139 264 kbit/s signals	
O.163	11-1988	Equipment to perform in-service monitoring on 1544 kbit/s signals	
O.171	04-1997	Timing jitter and wander measuring equipment for digital systems which are based on the plesiochronous digital hierarchy (PDH)	
O.172	03-2001	Jitter and wander measuring equipment for digital systems which are based on the synchronous digital hierarchy (SDH)	
O.181	05-1996	Equipment to assess error performance on STM-N interfaces	
O.191	02-2000	Equipment to measure the cell transfer performance of ATM connections	

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

Number	Approved in	Title	Status
P.10	12-1998	Vocabulary of terms on telephone transmission quality and telephone sets	
P.11	03-1993	Effect of transmission impairments	
P.16	11-1988	Subjective effects of direct crosstalk; thresholds of audibility and intelligibility	
P.32	11-1988	Evaluation of the efficiency of telephone booths and acoustic hoods	
P.38	03-1993	Transmission characteristics of operator telephone systems (OTS)	
P.48	11-1988	Specification for an intermediate reference system	
P.50	09-1999	Artificial voices *Covering note, May 2000: Erratum*	
P.50 Erratum	05-2000	Erratum to Recommendation ITU-T P.50 (09/99)	
P.51	08-1996	Artificial mouth	
P.52	03-1993	Volume meters	
P.54	11-1988	Sound level meters (apparatus for the objective measurement of room noise)	
P.55	11-1988	Apparatus for the measurement of impulsive noise	
P.56	03-1993	Objective measurement of active speech level	
P.57	08-1996	Artificial ears	
P.58	08-1996	Head and torso simulator for telephonometry	
P.59	03-1993	Artificial conversational speech	
P.61	11-1988	Methods for the calibration of condenser microphones	
P.64	09-1999	Determination of sensitivity/frequency characteristics of local telephone systems *Covering note, May 2000: Erratum*	
P.64 Erratum	05-2000	Erratum to Recommendation ITU-T P.64 (09/99)	
P.75	11-1988	Standard conditioning method for handsets with carbon microphones	
P.76	11-1988	Determination of loudness ratings; fundamental principles	
P.78	02-1996	Subjective testing method for determination of loudness ratings in accordance with Recommendation P.76	
P.79	09-1999	Calculation of loudness ratings for telephone sets *Covering note, May 2000: Erratum Covering note, 24 October 2000: Corrigendum 1*	
P.79 Annex G	11-2001	Wideband loudness rating algorithm	Pre-published.
P.79 Corrigendum 1	10-2000	Corrigendum 1	
P.79 Corrigendum 2	05-2001	Corrigendum No. 2 to Recommendation ITU -T P.79 (09/99)	
P.79 Erratum 1	05-2000	Erratum to Recommendation ITU-T P.79 (09/99)	
P.82	11-1988	Method for evaluation of service from the standpoint of speech transmission quality	
P.84	03-1993	Subjective listening test method for evaluating digital circuit multiplication and packetized voice systems	
P.85	06-1994	A method for subjective performance assessment of the quality of speech voice output devices	
P.300	11-2001	Transmission performance of group audio terminals (GATs)	Pre-published.
P.310	05-2000	Transmission characteristics for telephone -band (300-3400 Hz) digital telephones	
P.311	02-1998	Transmission characteristics for wideband (150 -7000 Hz) digital handset telephones	
P.313	09-1999	Transmission characteristics for cordless and mobile digital terminals	
P.340	05-2000	Transmission characteristics of hands-free telephones	
P.341	02-1998	Transmission characteristics for wideband (150 -7000 Hz) digital hands -free telephony terminals	
P.341 Corrigendum 1	09-1999	Corrigendum 1	
P.342	05-2000	Transmission characteristics for telephone band (300-3400 Hz) digital loudspeaking and hands-free telephony terminals	
P.350	03-2001	Handset dimensions - Formerly ITU-T P.35	
P.360	12-1998	Efficiency of devices for preventing the occurrence of excessive acoustic pressure by telephone receivers *Former Rec. P.36, renumbered P.360*	
P.370	08-1996	Coupling Hearing Aids to Telephone sets *Former Rec. P.37, renumbered P.370*	
P.501	05-2000	Test signals for use in telephonometry *This Recommendation includes one CD -ROM containing test signals for telephonometry applications.*	
P.502	05-2000	Objective test methods for speech communication systems using complex test signals	
P.502 Erratum 1	07-2001	Erratum to Recommendation ITU-T P.502 (05/00)	
P.561	02-1996	In-service non-intrusive measurement device - Voice service measurements	
P.561 Appendix III	02-1998	Digital speech recordings *This Appendix includes one CD-ROM containing digital speech recordings for INMD devices*	

		testing.	
P.562	05-2000	Analysis and interpretation of INMD voice-services measurements	
P.581	05-2000	Use of head and torso simulator (HATS) for hands-free terminal testing	
P.800	08-1996	Methods for subjective determination of transmission quality *Former Rec. P.80, renumbered P.800*	
P.810	02-1996	Modulated noise reference unit (MNRU)	
P.830	02-1996	Subjective performance assessment of telephone-band and wideband digital codecs	
P.831	12-1998	Subjective performance evaluation of network echo cancellers	
P.832	05-2000	Subjective performance evaluation of hands-free terminals	
P.833	02-2001	Methodology for derivation of equipment impairment factors from subjective listening-only tests	Pre-published.
P.862	02-2001	Perceptual evaluation of speech quality (PESQ), an objective method for end-to-end speech quality assessment of narrowband telephone networks and speech codecs	Pre-published.
P.910	09-1999	Subjective video quality assessment methods for multimedia applications	
P.911	12-1998	Subjective audiovisual quality assessment methods for multimedia applications	
P.911 Corrigendum 1	09-1999	Corrigendum 1	
P.920	05-2000	Interactive test methods for audiovisual communications	
P.930	08-1996	Principles of a reference impairment system for video	
P.931	12-1998	Multimedia communications delay, synchronization and frame rate measurement	
P.supp10	11-1988	Considerations relating to transmission characteristics for analogue handset telephones	
P.supp16	11-1988	Guidelines for placement of microphones and loudspeakers in telephone conference rooms [1] and for Group Audio Terminals (GATs)	
P.supp20	03-1993	Examples of measurements of handset receive-frequency responses: dependence on earcap leakage losses	
supp23	02-1998	ITU-T coded-speech database *This Supplement includes 3 CD-ROMs containing the ITU-T coded speech database for 8 kbit/s codec tests. Note: Not available through Electronic Bookshop To purchase, please contact Sales@itu.int*	

Series Q: Switching and signalling

Number	Approved in	Title	Status
Q.1	11-1988	Signal receivers for manual working	
Q.2	11-1988	Signal receivers for automatic and semi-automatic working, used for manual working	
Q.4	11-1988	Automatic switching functions for use in national networks	
Q.5	11-1988	Advantages of semi-automatic service in the international telephone service	
Q.6	11-1988	Advantages of international automatic working	
Q.7	11-1988	Signalling systems to be used for international automatic and semi-automatic telephone working	
Q.8	11-1988	Signalling systems to be used for international manual and automatic working on analogue leased circuits	
Q.9	11-1988	Vocabulary of switching and signalling terms	
Q.12	11-1988	Overflow - alternative routing - rerouting - automatic repeat attempt	
Q.14	11-1988	Means to control the number of satellite links in an international telephone connection	
Q.20	11-1988	Comparative advantages of "in-band" and "out-band" systems	
Q.21	11-1988	Systems recommended for out-band signalling	
Q.22	11-1988	Frequencies to be used for in-band signalling	
Q.23	11-1988	Technical features of push-button telephone sets	
Q.24	11-1988	Multifrequency push-button signal reception	
Q.25	11-1988	Splitting arrangements and signal recognition times in "in-band" signalling systems	
Q.26	11-1988	Direct access to the international network from the national network	
Q.27	11-1988	Transmission of the answer signal	
Q.28	11-1988	Determination of the moment of the called subscriber's answer in the automatic service	
Q.29	11-1988	Causes of noise and ways of reducing noise in telephone exchanges	
Q.30	11-1988	Improving the reliability of contacts in speech circuits	
Q.31	11-1988	Noise in a national 4-wire automatic exchange	
Q.32	11-1988	Reduction of the risk of instability by switching means	
Q.33	11-1988	Protection against the effects of faulty transmission on groups of circuits	
Q.35/E.180	03-1998	Technical characteristics of tones for the telephone service *This Recommendation is published with the double number E.180 and Q.35*	
Q.Sup35	12-2000	Technical report TRQ.2500: Signalling requirements for the support of the call bearer control interface (CS-1)	
Q.44	11-1988	Attenuation distortion	
Q.45*bis*	11-1988	Transmission characteristics of an analogue international exchange	
Q.45	10-1984	Transmission characteristics of an analogue international exchange	
Q.48	11-1988	Demand assignment signalling systems	
Q.50	07-2001	Signalling between circuit multiplication equipments (CME) and international switching centres (ISC)	Pre-published.
Q.50.1	07-2001	Signalling between international switching centres (ISC) and digital circuit multiplication equipment (DCME) including the control of compression/decompression *Available as a prepublished version*	Pre-published.
Q.52	03-2001	Signaling between international switching centers and stand-alone echo control devices	
Q.55	12-1999	Signalling between signal processing network equipment (SPNE) and international switching centres (ISC)	
Q.65	06-2000	The unified functional methodology for the characterization of services and network capabilities	
Q.68	03-1993	Overview of methodology for developing management services	
Q.71	03-1993	ISDN circuit mode switched bearer services	
Q.72	03-1993	Stage 2 description for packet mode services	
Q.76	02-1995	Service procedures for Universal Personal Telecommunication - Functional modelling and information flows	
Q.80	11-1988	Introduction to stage 2 service descriptions for supplementary services	
Q.81	***Stage 2 description for number identification supplementary services***		
Q.81.1	11-1988	Stage 2 description for number identification supplementary services : Direct dialling-in	
Q.81.2	02-1992	Stage 2 description for number identification supplementary services : Multiple subscriber number *Published with ITU-T Q.81.8.*	
Q.81.3	09-1991	Stage 2 description for number identification supplementary services : Calling line identification presentation (CLIP) and calling line identification restriction (CLIR) *Published with ITU-T Q.81.5.*	
Q.81.5	09-1991	Stage 2 description for number identification supplementary services : Connected line identification, presentation and restriction (COLP) and (COLR) *Published with ITU-T Q.81.3.*	
Q.81.7	06-1997	Stage 2 description for number identification supplementary services : Malicious call identification (MCID)	

		This subject was only recognised and is for further study	
Q.81.8	02-1992	Stage 2 description for number identification supplementary services : Sub-addressing (SUB) *Published with ITU-T Q.81.2.*	
Q.82	***Stage 2 description for call offering supplementary services***		
Q.82.2	03-1993	Stage 2 description for call offering supplementary services : Call forwarding *Published with ITU-T Q.82.3.*	
Q.82.3	03-1993	Stage 2 description for call offering supplementary services : Call deflection *Published with ITU-T Q.82.2.*	
Q.82.4	11-1988	Stage 2 description for call offering supplementary services : Line hunting	
Q.82.7	07-1996	Stage 2 description for call offering supplementary services : Explicit call transfer	
Q.83	***Stage 2 description for call completion supplementary services***		
Q.83.1	09-1991	Stage 2 description for call completion supplementary services : Call waiting (CW) *Published with ITU-T Q.83.4.*	
Q.83.2	02-1992	Stage 2 description for call completion supplementary services : Call hold	
Q.83.3	11-1988	Stage 2 description for call completion supplementary services : Completion of call to busy subscriber *Empty Recommendation. This service has only been identified and requires further study.*	Available only in PDF, see Disc 1
Q.84	***Stage 2 description for multiparty supplementary services***		
Q.84.1	03-1993	Stage 2 description for multiparty supplementary services : Conference calling (CONF)	
Q.84.2	10-1995	Stage 2 description for multiparty supplementary services : Three-party service	
Q.85	***Stage 2 description for community of interest supplementary services***		
Q.85.1	02-1992	Stage 2 description for community of interest supplementary services : Closed user group *Published with ITU-T Q.85.3.*	
Q.85.3	02-1992	Stage 2 description for community of interest supplementary services : Multi-level precedence and preemption (MLPP) *Published with ITU-T Q.85.1.*	
Q.85.6	02-1995	Stage 2 description for community of interest supplementary services : Global Virtual Network Service (GVNS)	
Q.85.6 Annex A	07-1996	Service procedures and information flows based on Intelligent Network CS-1 capabilities	
Q.86	***Stage 2 description for charging supplementary services***		
Q.86.2	10-1995	Stage 2 description for charging supplementary services : Advice of charge (AOC)	
Q.86.3	03-1993	Stage 2 description for charging supplementary services : Reverse charging (REV)	
Q.86.4	06-1997	Stage 2 description for charging supplementary services : International Freephone Service (IFS)	
Q.86.7	10-1995	Stage 2 description for charging supplementary services : International Telecommunication Charge Card (ITCC)	
Q.87	***Stage 2 description for additional information transfer supplementary services***		
Q.87.1	03-1993	Stage 2 description for additional information transfer supplementary services : User-to-user signalling (UUS)	
Q.101	11-1988	Facilities provided in international semi-automatic working	
Q.102	11-1988	Facilities provided in international automatic working	
Q.103	11-1988	Numbering used	
Q.104	11-1988	Language digit or discriminating digit	
Q.105	11-1988	National (significant) number	
Q.106	11-1988	The sending-finished signal	
Q.107	11-1988	Standard sending sequence of forward address information	
Q.107 *bis*	03-1993	Analysis of forward address information for routing	
Q.108	11-1988	One-way or both-way operation of international circuits	
Q.109	11-1988	Transmission of the answer signal in international exchanges	
Q.110	11-1988	General aspects of the utilization of standardized CCITT signalling systems on PCM links	
Q.112	11-1988	Signal levels and signal receiver sensitivity	
Q.113	11-1988	Connection of signal receivers in the circuit	
Q.114	11-1988	Typical transmission requirements for signal senders and receivers	
Q.115	12-1999	Logic for the control of echo control devices	
Q.116	11-1988	Indication given to the outgoing operator or calling subscriber in case of an abnormal condition	
Q.117	11-1988	Alarms for technical staff and arrangements in case of faults	
Q.118	09-1997	Abnormal conditions - Special release arrangements	
Q.118 *bis*	11-1988	Indication of congestion conditions at transit exchanges	
Q.120	11-1988	Definition and function of signals	
Q.121	11-1988	Signal code	
Q.122	11-1988	Signal sender	
Q.123	11-1988	Signal receiver	
Q.124	11-1988	Splitting arrangements	
Q.125	11-1988	Speed of switching in international exchanges	
Q.127	11-1988	Release of registers	
Q.128	11-1988	Switching to speech position	
Q.129	11-1988	Maximum duration of a blocking signal	
Q.130	11-1988	Special arrangements in case of failures in the sequence of signals	
Q.131	11-1988	Abnormal release conditions of the outgoing register causing release of the international circuit	
Q.133	11-1988	Numbering for access to automatic measuring and testing devices	

Q.134	11-1988	Routine testing of equipment (local maintenance)
Q.135	11-1988	Principles of rapid transmission testing equipment
Q.136	11-1988	Loop transmission measurements
Q.137	11-1988	Automatic testing equipment
Q.138	11-1988	Instruments for checking equipment and measuring signals
Q.139	11-1988	Manual testing
Q.140	11-1988	Definition and function of signals
Q.141	03-1993	Signal code for line signalling *Clause 2 (03/93) - Line signalling*
Q.142	11-1988	Double seizing with both-way operation
Q.143	11-1988	Line signal sender
Q.144	03-1993	Line signal receiver
Q.145	11-1988	Splitting arrangements
Q.146	11-1988	Speed of switching in international exchanges
Q.151	11-1988	Signal code for register signalling
Q.152	11-1988	End-of-Pulsing conditions - Register arrangements concerning ST (end-of-pulsing) signal
Q.153	11-1988	Multifrequency signal sender
Q.154	11-1988	Multifrequency signal receiver
Q.156	11-1988	Release of international registers
Q.157	11-1988	Switching to the speech position
Q.162	11-1988	Routine testing of equipment (local maintenance)
Q.163	11-1988	Manual testing
Q.164	11-1988	Testing equipment for checking equipment and signals
Q.180	11-1988	Interworking of signalling systems No. 4 and No. 5
Q.251	11-1988	General
Q.252	11-1988	Signal transfer time definitions
Q.253	11-1988	Association between signalling and speech networks
Q.254	11-1988	Telephone signals
Q.255	11-1988	Signalling-system-control signals
Q.256	11-1988	Management signals
Q.257	11-1988	General
Q.258	11-1988	Telephone signals
Q.259	11-1988	Signalling-system-control signals
Q.260	11-1988	Management signals
Q.261	11-1988	Normal call set-up
Q.263	11-1988	Double seizing with both-way operation
Q.264	11-1988	Potential for automatic repeat attempt and re-routing
Q.265	11-1988	Speed of switching and signal transfer in international exchanges
Q.266	11-1988	Blocking and unblocking sequences and control of quasi-associated signalling
Q.267	11-1988	Unreasonable and superfluous messages
Q.268	11-1988	Release of international connections and associated equipment
Q.271	11-1988	General
Q.272	11-1988	Requirements for the signalling data link
Q.273	11-1988	Data transmission rate
Q.274	11-1988	Transmission methods - Modem and interface requirements
Q.275	11-1988	Data channel failure detection
Q.276	11-1988	Service dependability
Q.277	11-1988	Error control
Q.278	11-1988	Synchronization
Q.279	11-1988	Drift compensation
Q.285	11-1988	Signal priority categories
Q.286	11-1988	Signalling channel loading and queueing delays
Q.287	11-1988	Signal transfer time requirements
Q.291	11-1988	General
Q.292	11-1988	Reserve facilities provided
Q.293	11-1988	Intervals at which security measures are to be invoked
Q.295	11-1988	Overall tests of Signalling System No. 6
Q.296	11-1988	Monitoring and maintenance of the common signalling channel
Q.297	11-1988	Network management
Q.300	11-1988	Interworking between CCITT Signalling System No. 6 and national common channel signalling systems
Q.310	11-1988	Definition and function of signals
Q.311	11-1988	2600 Hz line signalling
Q.312	11-1988	2600 Hz line signal sender (transmitter)
Q.313	11-1988	2600 Hz line signal receiving equipment
Q.314	11-1988	PCM line signalling
Q.315	11-1988	PCM line signal sender (transmitter)
Q.316	11-1988	PCM line signal receiver

Q.317	11-1988	Further specification clauses relative to line signalling
Q.318	11-1988	Double seizing with both-way operation
Q.319	11-1988	Speed of switching in international exchanges
Q.320	11-1988	Signal code for register signalling
Q.321	11-1988	End-of-pulsing conditions - Register arrangements concerning ST signal
Q.322	11-1988	Multifrequency signal sender
Q.323	11-1988	Multifrequency signal receiving equipment
Q.324	11-1988	Analysis of address information for routing
Q.325	11-1988	Release of registers
Q.326	11-1988	Switching to the speech position
Q.327	11-1988	General arrangements
Q.328	11-1988	Routine testing of equipment (local maintenance)
Q.329	11-1988	Manual testing
Q.330	11-1988	Automatic transmission and signalling testing
Q.331	11-1988	Test equipment for checking equipment and signals
Q.332	11-1988	Interworking *Specifications on interworking of System R1 with other signalling systems are not yet available. Typical information is found in Rec. Q.180*
Q.400	11-1988	Forward line signals
Q.411	11-1988	Line signalling code
Q.412	11-1988	Clauses for exchange line signalling equipment
Q.414	11-1988	Signal sender
Q.415	11-1988	Signal receiver
Q.416	11-1988	Interruption control
Q.421	11-1988	Digital line signalling code
Q.422	11-1988	Clauses for exchange line signalling equipment
Q.424	11-1988	Protection against the effects of faulty transmission
Q.430	11-1988	Conversion between analogue and digital versions of System R2 line signalling
Q.440	11-1988	General
Q.441	11-1988	Signalling code
Q.442	11-1988	Pulse transmission of backward signals A-3, A-4, A-6 or A-15. Multifrequency signalling equipment
Q.450	11-1988	General
Q.451	11-1988	Definitions
Q.452	11-1988	Requirements relating to transmission conditions
Q.454	11-1988	The sending part of the multifrequency signalling equipment
Q.455	11-1988	The receiving part of the multifrequency equipment
Q.457	11-1988	Range of interregister signalling
Q.458	11-1988	Reliability of interregister signalling
Q.460	11-1988	Normal call set-up procedures for international working
Q.462	11-1988	Signalling between the outgoing international R2 register and an incoming R2 register in an international exchange
Q.463	11-1988	Signalling between the outgoing international R2 register and an incoming R2 register in a national exchange in the destination country
Q.464	11-1988	Signalling between the outgoing international R2 register and the last incoming R2 register
Q.465	11-1988	Particular cases
Q.466	11-1988	Supervision and release of the call
Q.470	11-1988	At an incoming R2 register situated in a transit exchange
Q.471	11-1988	At the last incoming R2 register situated in the exchange to which the called subscriber is connected
Q.472	11-1988	At the last incoming R2 register situated in a transit exchange
Q.473	11-1988	Use of end-of-pulsing signal I-15 in international working
Q.474	11-1988	Use of group B signals
Q.475	11-1988	Normal release of outgoing and incoming R2 registers
Q.476	11-1988	Abnormal release of outgoing and incoming R2 registers
Q.478	11-1988	Relay and regeneration of R2 interregister signals by an outgoing R2 register in a transit exchange
Q.479	11-1988	Echo-suppressor control - Signalling requirements
Q.480	11-1988	Miscellaneous procedures
Q.490	11-1988	Testing and maintenance
Q.500	11-1988	Digital local, combined, transit and international exchanges - Introduction and field of application
Q.511	11-1988	Exchange interfaces towards other exchanges
Q.512	02-1995	Digital exchange interfaces for subscriber access
Q.513	03-1993	Digital exchange interfaces for operations, administration and maintenance
Q.521	03-1993	Digital exchange functions
Q.522	11-1988	Digital exchange connections, signalling and ancillary functions
Q.541	03-1993	Digital exchange design objectives - General
Q.542	03-1993	Digital exchange design objectives - Operations and maintenance
Q.543	03-1993	Digital exchange performance design objectives

Q.544	11-1988	Digital exchange measurements	
Q.551	01-2002	Transmission characteristics of digital exchanges	Pre-published.
Q.552	11-2001	Transmission characteristics at 2-wire analogue interfaces of digital exchange	Pre-published.
Q.553	11-2001	Transmission characteristics at 4-wire analogue interfaces of digital exchanges	Pre-published.
Q.554	11-1996	Transmission characteristics at digital interfaces of digital exchanges	
Q.601	03-1993	Interworking of signalling systems - General	
Q.601 Q.695 Annex A	03-1993	Lists and meanings of FITEs, BITEs and SPITEs - Representation of information contents of signals of the signalling systems	
Q.601 Q.695 Annex B	03-1993	Narrative presentation of interworking	
Q.602	03-1993	Interworking of signalling systems - Introduction	
Q.603	11-1988	Events	
Q.604	03-1993	Interworking of signalling systems - Information analysis tables	
Q.605	11-1988	Drawing conventions	
Q.606	11-1988	Logic procedures	
Q.607	11-1988	Interworking requirements for new signalling systems	
Q.608	11-1988	Miscellaneous interworking aspects	
Q.611	11-1988	Logic procedures for incoming signalling system No. 4	
Q.612	11-1988	Logic procedures for incoming signalling system No. 5	
Q.613	11-1988	Logic procedures for incoming signalling system No. 6	
Q.614	03-1993	Logic procedures for incoming Signalling System No. 7 (TUP)	
Q.615	11-1988	Logic procedures for incoming signalling system R1	
Q.616	11-1988	Logic procedures for incoming signalling system R2	
Q.617	03-1993	Logic procedures for incoming signalling system No. 7 (ISUP)	
Q.621	11-1988	Logic procedures for outgoing signalling system No. 4	
Q.622	11-1988	Logic procedures for outgoing signalling system No. 5	
Q.623	11-1988	Logic procedures for outgoing signalling system No. 6	
Q.624	03-1993	Logic procedures for outgoing Signalling System No. 7 (TUP)	
Q.625	11-1988	Logic procedures for outgoing signalling system R1	
Q.626	11-1988	Logic procedures for outgoing signalling system R2	
Q.627	03-1993	Logic procedures for outgoing Signalling System No. 7 (ISUP)	
Q.634	11-1988	Logic procedures for interworking of signalling system No. 4 to R2	
Q.642	11-1988	Logic procedures for interworking of signalling system No. 5 to No. 6	
Q.643	11-1988	Logic procedures for interworking of signalling system No. 5 to No. 7 (TUP)	
Q.644	11-1988	Logic procedures for interworking of signalling system No. 5 to R1	
Q.645	11-1988	Logic procedures for interworking of signalling system No. 5 to R2	
Q.646	03-1993	Logic procedures for interworking of Signalling System No. 5 to Signalling System No. 7 (ISUP)	
Q.652	11-1988	Logic procedures for interworking of signalling system No. 6 to No. 5	
Q.653	11-1988	Logic procedures for interworking of signalling system No. 6 to No. 7 (TUP)	
Q.654	11-1988	Logic procedures for interworking of signalling system No. 6 to R1	
Q.655	11-1988	Logic procedures for interworking of signalling system No. 6 to R2	
Q.656	03-1993	Logic procedures for interworking of Signalling System No. 6 to Signalling System No. 7 (ISUP)	
Q.662	11-1988	Logic procedures for interworking of signalling system No. 7 (TUP) to No. 5	
Q.663	11-1988	Logic procedures for interworking of signalling system No. 7 (TUP) to No. 6	
Q.664	11-1988	Logic procedures for interworking of signalling system No. 7 (TUP) to No. 7 (TUP)	
Q.665	11-1988	Logic procedures for interworking of signalling system No. 7 (TUP) to R1	
Q.666	11-1988	Logic procedures for interworking of signalling system No. 7 (TUP) to R2	
Q.667	03-1993	Logic procedures for interworking of Signalling System No. 7 (TUP) to Signalling System No. 7 (ISUP)	
Q.671	11-1988	Logic procedures for interworking of signalling system R1 to No. 5	
Q.672	11-1988	Logic procedures for interworking of signalling system R1 to No. 6	
Q.673	11-1988	Logic procedures for interworking of signalling system R1 to No. 7 (TUP)	
Q.674	11-1988	Logic procedures for interworking of signalling system R1 to R2	
Q.675	03-1993	Logic procedures for interworking of Signalling System R1 to Signalling System No. 7 (ISUP)	
Q.681	11-1988	Logic procedures for interworking of signalling system R2 to No. 4	
Q.682	11-1988	Logic procedures for interworking of signalling system R2 to No. 5	
Q.683	11-1988	Logic procedures for interworking of signalling system R2 to No. 6	
Q.684	11-1988	Logic procedures for interworking of signalling system R2 to No. 7 (TUP)	
Q.685	11-1988	Logic procedures for interworking of signalling system R2 to R1	
Q.686	03-1993	Logic procedures for interworking of Signalling System R2 to Signalling System No. 7 (ISUP)	
Q.690	03-1993	Logic procedures for interworking of Signalling System No. 7 (ISUP) to No. 5	
Q.691	03-1993	Logic procedures for interworking of Signalling System No. 7 (ISUP) to No. 6	
Q.692	03-1993	Logic procedures for interworking of Signalling System No. 7 (ISUP) to No. 7 (TUP)	
Q.694	03-1993	Logic procedures for interworking of signalling system No. 7 (ISUP) to R1	
Q.695	03-1993	Logic procedures for interworking of Signalling System No. 7 (ISUP) to R2	
Q.696	06-1997	Interworking between the Signalling System No. 7 ISDN User Part (ISUP) and Signalling Systems No. 5, R2 and Signalling System No. 7 TUP	
Q.698	03-1993	Interworking of Signalling System No. 7 ISUP, TUP and Signalling System No. 6 using arrow	

		diagrams	
Q.699	09-1997	Interworking between ISDN access and non-ISDN access over ISDN User Part of Signalling System No. 7	
Q.699 Addendum 1	12-1999	DSS1-SS7 interworking for call completion on no reply	
Q.699.1	05-1998	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	
Q.700	03-1993	Introduction to CCITT Signalling System No. 7	
Q.701	03-1993	Functional description of the message transfer part (MTP) of Signalling System No. 7	
Q.702	11-1988	Signalling data link	
Q.703	07-1996	Signalling link	
Q.704	07-1996	Signalling network functions and messages *Covering note, 17.09.99: Erratum (english only)*	
Q.705	03-1993	Signalling network structure	
Q.706	03-1993	Message transfer part signalling performance	
Q.707	11-1988	Testing and maintenance	
Q.708	03-1999	Assignment procedures for international signalling point codes	
Q.709	03-1993	Hypothetical signalling reference connection	
Q.710	11-1988	Simplified MTP version for small systems	
Q.711	03-2001	Functional description of the signalling connection control part	
Q.712	07-1996	Definition and function of signalling connection control part messages	
Q.713	03-2001	Signalling connection control part formats and codes	
Q.714	05-2001	Signalling connection control part procedures	Pre-published.
Q.715	07-1996	Signalling connection control part user guide	
Q.716	03-1993	Signalling System No. 7 - Signalling connection control part (SCCP) performance	
Q.721	11-1988	Functional description of the Signalling System No. 7 Telephone User Part (TUP)	
Q.722	11-1988	General function of telephone messages and signals	
Q.723	11-1988	Telephone user part formats and codes *A Corrigendum was indicated in 03/1993.*	
Q.723 Amendment 1	03-1993	Amendment 1 to ITU-T Q.723 (1988)	
Q.724	11-1988	Telephone user part signalling procedures	
Q.724 Amendment 1	03-1993	Amendment 1 to ITU-T Q.724 (1988)	
Q.725	03-1993	Signalling performance in the telephone application	
Q.730	12-1999	ISDN user part supplementary services	
Q.731	***Stage 3 description for number identification supplementary services using Signalling System No. 7***		
Q.731.1	07-1996	Stage 3 description for number identification supplementary services using Signalling System No. 7 : Direct-dialling-In (DDI)	
Q.731.3	03-1993	Stage 3 description for number identification supplementary services using Signalling System No. 7 : Calling line identification presentation (CLIP)	
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Q.731.6	03-1993	Stage 3 description for number identification supplementary services using Signalling System No. 7 : Connected line identification restriction (COLR)	
Q.731.7	06-1997	Stage 3 description for number identification supplementary services using Signalling System No. 7 : Malicious call identification (MCID)	
Q.731.8	02-1992	Stage 3 description for number identification supplementary services using Signalling System No. 7 : Sub-addressing (SUB) *Published with ITU-T Q.731.1.*	
Q.732	***Stage 3 description for call offering supplementary services using Signalling System No. 7***		
Q.732.2-5	12-1999	Stage 3 description for call offering supplementary services using Signalling System No. 7 : Call diversion services *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 – Call Deflection (CD).*	
Q.732.2 Amendment 1	07-2001	Stage 3 description for call offering supplementary services using Signalling System No. 7: Call diversion services	Pre-published.
Q.732.7	07-1996	Stage 3 description for call offering supplementary services using Signalling System No. 7 : Explicit Call Transfer	
Q.733	***Stage 3 description for call completion supplementary services using Signalling System No. 7***		
Q.733.1	02-1992	Stage 3 description for call completion supplementary services using Signalling System No. 7 : Call waiting (CW)	
Q.733.2	03-1993	Stage 3 description for call completion supplementary services using Signalling System No. 7 : Call hold (HOLD) *Published with ITU-T Q.733.4.*	
Q.733.3	06-1997	Stage 3 description for call completion supplementary services using Signalling System No. 7 : Completion of calls to busy subscriber (CCBS)	
Q.733.3 Amendment 1	07-2001	Stage 3 description for call completion supplementary services using Signalling System No. 7: Completion of calls to busy subscriber (CCBS)	Pre-published.
Q.733.4	03-1993	Stage 3 description for call completion supplementary services using Signalling System No. 7 : Terminal portability (TP)	

		Published with ITU-T Q.733.2.	
Q.733.5	12-1999	Stage 3 description for call completion supplementary services using Signalling System No. 7 : Completion of calls on no reply	
Q.734	***Stage 3 description for multiparty supplementary services using Signalling System No. 7***		
Q.734.1	03-1993	Stage 3 description for multiparty supplementary services using Signalling System No. 7 : Conference calling *Published with ITU-T Q.734.2. Covering note, June 1999: Information note*	
Q.734.2	07-1996	Stage 3 description for multiparty supplementary services using Signalling System No. 7 : Three - party service	
Q.735	***Stage 3 description for community of interest supplementary services using Signalling System No. 7***		
Q.735.1	03-1993	Stage 3 description for community of interest supplementary services using Signalling System No. 7 : Closed user group (CUG)	
Q.735.3	03-1993	Stage 3 description for community of interest supplementary services using Signalling System No. 7 : Multi-level precedence and preemption	
Q.735.6	07-1996	Stage 3 description for community of interest supplementary services using Signalling System No. 7 : Global Virtual Network Service (GVNS)	
Q.736	***Stage 3 description for charging supplementary services using Signalling System No. 7***		
Q.736.1	10-1995	Stage 3 description for charging supplementary services using Signalling System No. 7 : International Telecommunication Charge Card (ITCC)	
Q.736.3	10-1995	Stage 3 description for charging supplementary services using Signalling System No. 7 : Reverse charging (REV)	
Q.737	***Stage 3 description for additional information transfer supplementary services using Signalling System No. 7***		
Q.737.1	06-1997	Stage 3 description for additional information transfer supplementary services using Signalling System No. 7 : User-to-user signalling (UUS)	
Q.750	06-1997	Overview of Signalling System No. 7 management	
Q.751.1	10-1995	Network element management information model for the Message Transfer Part (MTP)	
Q.751.2	06-1997	Network element management information model for the Signalling Connection Control Part	
Q.751.3	09-1997	Network element information model for MTP accounting	
Q.751.4	05-1998	Network element information model for SCCP accounting and accounting verification	
Q.752	06-1997	Monitoring and measurements for Signalling System No. 7 networks	
Q.753	06-1997	Signalling System No. 7 management functions MRVT, SRVT and CVT and definition of the OMASE-user	
Q.754	06-1997	Signalling System No. 7 management Application Service Element (ASE) definitions	
Q.755	03-1993	Signalling System No. 7 protocol tests	
Q.755.1	05-1998	MTP Protocol Tester	
Q.755.2	09-1997	Transaction capabilities test responder	
Q.756	06-1997	Guidebook to Operations, Maintenance and Administration Part (OMAP)	
Q.761	12-1999	Signalling System No. 7 - ISDN User Part functional description	
Q.761 Amendment 1	07-2001	Specifications of Signalling System No. 7 - ISDN user part functional description	Pre-published.
Q.762	12-1999	Signalling System No. 7 - ISDN User Part general functions of messages and signals	
Q.762 Addendum 1	06-2000	Addendum 1	
Q.763	12-1999	Signalling System No. 7 - ISDN User Part formats and codes	
Q.763 Amendment 1	03-2001	Coding of the application transport parameter	
Q.763 Corrigendum 1	07-2001	Signalling System No. 7 - ISDN user part formats and codes	Pre-published.
Q.764	12-1999	Signalling System No. 7 - ISDN User Part signalling procedures	
Q.764 Amendment 1	07-2001	Specifications of Signalling System No. 7 - ISDN user part signalling procedures	Pre-published.
Q.765	06-2000	Signalling system No. 7 - Application transport mechanism	
Q.765*bis*	12-1999	Signalling system No. 7 - Application Transport Mechanism: Test Suite Structure and Test Purposes (TSS & TP)	
Q.765.1	05-1998	Signalling System No. 7 - Application transport mechanism: Support of VPN applications with PSS1 information flows	
Q.765.1*bis*	12-1999	Abstract test suite for the APM support of VPN applications	
Q.765.4	06-2000	Signalling system No. 7 - Application transport mechanism: Support of the generic addressing and transport protocol	
Q.765.5	06-2000	Signalling system No. 7 - Application transport mechanism: Bearer Independent Call Control (BICC)	
Q.765.5 Amendment 1	07-2001	Bearer independent call control capability set 2	Pre-published.
Q.766	03-1993	Performance objectives in the integrated services digital network application	
Q.767	02-1991	Application of the ISDN user part of CCITT signalling system No. 7 for international ISDN interconnections	
Q.768	10-1995	Signalling interface between an international switching centre and an ISDN satellite subnetwork	
Q.769.1	12-1999	Signalling system No. 7 - ISDN user part enhancements for the support of number portability	
Q.771	06-1997	Functional description of transaction capabilities	
Q.772	06-1997	Transaction capabilities information element definitions	
Q.773	06-1997	Transaction capabilities formats and encoding	
Q.774	06-1997	Transaction capabilities procedures	
Q.775	06-1997	Guidelines for using transaction capabilities	

Q.780	10-1995	Signalling System No. 7 test specification - General description	
Q.781	07-1996	MTP level 2 test specification	
Q.782	07-1996	MTP level 3 test specification	
Q.783	11-1988	TUP test specification	
Q.784 Annex A	03-1993	TTCN version of Recommendation Q.784	
Q.784.1	07-1996	Validation and compatibility for ISUP'92 and Q.767 protocols	
Q.784.1 Corrigendum 1	12-1999		
Q.784.2	06-1997	Abstract test suite for ISUP'92 basic call control procedures *This Recommendation includes one diskette containing Annex D ISUP'92 ATS for basic call in graphical and in machine processable form.*	
Q.784.3	12-1999	ISUP '97 basic call control procedures - Test suite structure and test purposes (TSS & TP)	
Q.785	09-1991	ISUP protocol test specification for supplementary services	
Q.785.2	03-1999	ISUP'97 supplementary services - Test suite structure and test purposes (TSS & TP) *This Recommendation includes one CD-ROM containing the ISUP'97 ATS for supplementary services in machine processable form and in graphical form.*	
Q.786	03-1993	SCCP test specification	
Q.787	09-1997	Transaction Capabilities (TC) test specification	
Q.788	06-1997	User-network-interface to user-network-interface compatibility test specifications for ISDN, non-ISDN and undetermined accesses interworking over international ISUP	
Q.811	06-1997	Lower layer protocol profiles for the Q3 and X interfaces	
Q.812	06-1997	Upper layer protocol profiles for the Q3 and X interfaces	
Q.812 Appendix I	03-1999	Guidance on using allomorphic management	
Q.812 Amendment 1	03-1999	Additional X interface protocols for the service management layer (SML)	
Q.812 Amendment 2	02-2000	Protocol profile for electronic communications interactive agent	Pre-published.
Q.813	06-1998	Security Transformations Application Service Element for Remote Operations Service Element (STASE-ROSE)	
Q.814	02-2000	Specification of an electronic data interchange interactive agent	
Q.815	02-2000	Specification of a security model for whole message protection	
Q.816	01-2001	CORBA-based TMN services	
Q.816 Amendment 1	08-2001	OMG services profile	Pre-published.
Q.816 Corrigendum 1	08-2001	Technical Corrigendum	Pre-published.
Q.816.1	08-2001	CORBA-Based TMN services extensions to support coarse-grained interfaces	Pre-published.
Q.817	01-2001	TMN PKI - Digital certificates and certificate revocation lists profiles	
Q.821	02-2000	Stage 2 and Stage 3 description for the Q3 interface - Alarm Surveillance	
Q.821.1	09-2001	CORBA-based TMN alarm surveillance service	Pre-published.
Q.822	04-1994	Stage 1, stage 2 and stage 3 description for the Q3 interface - Performance management	
Q.822.1	10-2001	CORBA-based TMN performance management service	Pre-published.
Q.823	07-1996	Stage 2 and Stage 3 functional specifications for traffic management	
Q.823.1	10-1997	Management Conformance Statement Proformas	
Q.824	***Stage 2 and stage 3 description for the Q3 interface - Customer administration***		
Q.824.0	10-1995	Stage 2 and stage 3 description for the Q3 interface - Customer administration : Common information	
Q.824.1	10-1995	Stage 2 and stage 3 description for the Q3 interface - Customer administration : Integrated Services Digital Network (ISDN) basic and primary rate access	
Q.824.2	10-1995	Stage 2 and stage 3 description for the Q3 interface - Customer administration : Integrated Services Digital Network (ISDN) supplementary services	
Q.824.3	10-1995	Stage 2 and stage 3 description for the Q3 interface - Customer administration : Integrated Services Digital Network (ISDN) optional user facilities	
Q.824.4	10-1995	Stage 2 and stage 3 description for the Q3 interface - Customer administration : Integrated Services Digital Network (ISDN) teleservices	
Q.824.5	10-1997	Stage 2 and stage 3 description for the Q3 interface - Customer administration : Configuration management of V5 interface environments and associated customer profiles	
Q.824.5 Corrigendum 1	02-2000	Corrigendum 1	
Q.824.6	06-1998	Stage 2 and stage 3 description for the Q3 interface - Customer administration : Broadband switch management	
Q.824.7	02-2000	Stage 2 and stage 3 description for the Q3 interface - Customer administration : Enhanced Broadband Switch	
Q.825	06-1998	Specification of TMN applications at the Q3 interface: Call detail recording	
Q.826	02-2000	Stage 2 and Stage 3 Functional Specification of Call Routing Information Management on Operation System/Network Element (OS/NE) Interface	Available only in PDF, see Disc 1
Q.831	10-1997	Fault and performance management of V5 interface environments and associated customer profiles	
Q.831 Corrigendum 1	03-2001	Corrigendum 1 to Recommendation Q.831	
Q.831.1	02-2000	Access Management for V5	
Q.832.1	06-1998	VB5.1 Management	

Q.832.1 Corrigendum 1	03-2001	Corrigendum 1 to Recommendation Q.832.1 *Available as a prepublished version*	
Q.832.2	03-1999	VB5.2 Management	
Q.832.3	01-2001	Broadband access coordination	
Q.833.1	01-2001	Asymmetric digital subscriber line (ADSL) network element management - Part 1: CMIP model	Pre-published.
Q.834.1	04-2001	ATM-PON requirements and managed entities for the network element view	Pre-published.
Q.834.2	04-2001	ATM PON requirements and managed entities for the network view	
Q.834.3	11-2001	A UML description for management interface requirements for broadband passive optical networks	Pre-published.
Q.835	03-1999	Line and line circuit test management of ISDN and analogue customer accesses	
Q.835 Corrigendum 1	03-2001	*Corrigendum 1 to Recommendation Q.835*	
Q.836.1	02-2000	SSF management information model	
Q.850	05-1998	Usage of cause and location in the Digital Subscriber Signalling System No. 1 and the Signalling System No. 7 ISDN User Part	
Q.850 Amendment 1	07-2001	Usage of cause and location in the Digital Subscriber Signalling System No. 1 (DSS1) and the Signalling System No. 7 (SS No. 7) ISDN User Part (ISUP)	Pre-published.
Q.850 Addendum 1	06-2000	Addendum 1	
Q.860	06-2000	Integrated Services Digital Network (ISDN) and Broadband Integrated Services Digital Network (B-ISDN) Generic Addressing and Transport (GAT) Protocol	
Q.920	03-1993	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*	
Q.920 Amendment 1	06-2000		
Q.921	09-1997	ISDN user-network interface - Data link layer specification *This Recommendation is also included but not published in I series under alias number I.441.*	
Q.921 *bis*	03-1993	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.*	
Q.921 Amendment 1	06-2000		
Q.922	02-1992	ISDN data link layer specification for frame mode bearer services	
Q.923	02-1995	Specification of a synchronization and coordination function for the provision of the OSI connection-mode network service in an ISDN environment	
Q.930	03-1993	ISDN user-network interface layer 3 - General aspects *This Recommendation is also included but not published in I series under alias number I.450*	
Q.931	05-1998	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*	
Q.932	05-1998	Digital subscriber signalling system No. 1 - Generic procedures for the control of ISDN supplementary services *This Recommendation is also included but not published in I series under alias number I.452.*	
Q.932 Amendment 1	06-2000		
Q.933	10-1995	Digital subscriber signalling system No. 1 (DSS 1) - Signalling specifications for frame mode switched and permanent virtual connection control and status monitoring	
Q.933 *bis*	10-1995	Abstract test suite - Signalling specification for frame mode basic call control conformance testing for permanent virtual connections (PVCs) *This Recommendation includes one diskette containing Abstract test suites Section II corresponding to additional procedures for PVCs as per ITU-T Q.933 Annex A.*	Available only in PDF, see Disc 1
Q.939	03-1993	Typical DSS 1 service indicator codings for ISDN telecommunications services	
Q.940	11-1988	ISDN user-network interface protocol for management - General aspects	
Q.941	03-1993	ISDN user-network interface protocol profile for management	
Q.950	06-2000	Supplementary services protocols, structure and general principles	
Q.951	***Stage 3 description for number identification supplementary services using DSS 1***		
Q.951.1	02-1992	Stage 3 description for number identification supplementary services using DSS 1 : Direct-dialling-in (DDI) *Q.951 parts 1, 2 and 8 published together*	
Q.951.2	02-1992	Stage 3 description for number identification supplementary services using DSS 1 : Multiple subscriber number (MSN) *Q.951 parts 1, 2 and 8 published together*	
Q.951.3	03-1993	Stage 3 description for number identification supplementary services using DSS 1 : Calling line identification presentation *Q.951 parts 3-6 published together*	
Q.951.4	03-1993	Stage 3 description for number identification supplementary services using DSS 1 : Calling line identification restriction *Q.951 parts 3-6 published together*	
Q.951.5	03-1993	Stage 3 description for number identification supplementary services using DSS 1 : Connected line identification presentation *Q.951 parts 3-6 published together*	
Q.951.6	03-1993	Stage 3 description for number identification supplementary services using DSS 1 : Connected line identification restriction *Q.951 parts 3-6 published together*	
Q.951.7	06-1997	Stage 3 description for number identification supplementary services using DSS 1 : Malicious Call Identification (MCID)	
		Stage 3 description for number identification supplementary services using DSS 1 : Sub-	

Q.951.8	02-1992	addressing (SUB) *Q.951 parts 1, 2 and 8 published together*
Q.952	03-1993	Stage 3 description for call offering supplementary services using DSS 1 - Diversion supplementary services
Q.952.7	06-1997	Stage 3 description for call offering supplementary services using DSS 1 - Explicit Call Transfer (ECT)
Q.953	***Stage 3 description for call completion supplementary services using DSS 1***	
Q.953.1	02-1992	Stage 3 description for call completion supplementary services using DSS 1 : Call waiting
Q.953.2	03-1993	Stage 3 description for call completion supplementary services using DSS 1 : Call hold
Q.953.3	06-1997	Stage 3 description for call completion supplementary services using DSS 1 : Completion of Calls to Busy Subscribers (CCBS)
Q.953.4	10-1995	Stage 3 description for call completion supplementary services using DSS 1 : Terminal Portability (TP)
Q.953.5	12-1999	Stage 3 description for call completion supplementary services using DSS 1 : Call Completion on No Reply (CCNR) *This Recommendation includes one diskette containing the SDL process diagrams of DSS1 CCNR in machine processable form and in graphical form.*
Q.954	***Stage 3 description for multiparty supplementary services using DSS 1***	
Q.954.1	03-1993	Stage 3 description for multiparty supplementary services using DSS 1 : Conference calling *Covering note, June 1999: Information note*
Q.954.2	10-1995	Stage 3 description for multiparty supplementary services using DSS 1 : Three -party (3PTY)
Q.955	***Stage 3 description for community of interest supplementary services using DSS 1***	
Q.955.1	02-1992	Stage 3 description for community of interest supplementary services using DSS 1 : Closed user group
Q.955.3	03-1993	Stage 3 description for community of interest supplementary services using DSS 1 : Multi -level precedence and preemption (MLPP)
Q.956	***Stage 3 description for charging supplementary services using DSS 1***	
Q.956.2	10-1995	Stage 3 description for charging supplementary services using DSS 1 : Advice of charge
Q.956.3	10-1995	Stage 3 description for charging supplementary services using DSS 1 : Reverse charging
Q.957	***Stage 3 description for additional information transfer supplementary services using DSS 1***	
Q.957.1	07-1996	Stage 3 description for additional information transfer supplementary services using DSS 1 : User-to-User Signalling (UUS)
Q.1000	11-1988	Structure of the Q.1000-Series Recommendations for public land mobile networks
Q.1001	11-1988	General aspects of public land mobile networks
Q.1002	11-1988	Network functions
Q.1003	11-1988	Location registration procedures
Q.1004	11-1988	Location register restoration procedures
Q.1005	11-1988	Handover procedures
Q.1031	11-1988	General signalling requirements on interworking between the ISDN or PSTN and the PLMN
Q.1032	11-1988	Signalling requirements relating to routing of calls to mobile subscribers
Q.1061	11-1988	General aspects and principles relating to digital PLMN access signalling reference points
Q.1062	11-1988	Digital PLMN access signalling reference configurations
Q.1063	11-1988	Digital PLMN channel structures and access capabilities at the radio interface (Um reference point)
Q.1100	03-1993	Structure of the Recommendations on the INMARSAT mobile satellite systems
Q.1101	11-1988	General requirements for the interworking of the terrestrial telephone network and INMARSAT Standard A system
Q.1102	11-1988	Interworking between Signalling System R2 and INMARSAT Standard A system
Q.1103	11-1988	Interworking between Signalling System No. 5 and INMARSAT Standard A system
Q.1111	03-1993	Interfaces between the INMARSAT Standard B system and the international public switched telephone network/ISDN
Q.1112	03-1993	Procedures for interworking between INMARSAT Standard-B system and the international public switched telephone network/ISDN
Q.1151	03-1993	Interfaces for interworking between the INMARSAT aeronautical mobile-satellite system and the international public switched telephone network/ISDN
Q.1152	03-1993	Procedures for interworking between INMARSAT aeronautical mobile satellite system and the international public switched telephone network/ISDN
Q.1200	09-1997	General series Intelligent Network Recommendation structure
Q.1201/I.312	10-1992	Principles of intelligent network architecture *This Recommendation is published with the double number Q.1201 and I.312*
Q.1202/I.328	09-1997	Intelligent network - Service plane architecture *This Recommendation is published with the double number Q.1202 and I.328*
Q.1203/I.329	09-1997	Intelligent network - Global functional plane architecture *This Recommendation is published with the double number Q.1203 and I.329. For more details see I.329*
Q.1204	03-1993	Intelligent network distributed functional plane architecture
Q.1205	03-1993	Intelligent network physical plane architecture
Q.1208	09-1997	General aspects of the Intelligent Network Application protocol
Q.1210	10-1995	Q.1210-series Intelligent network Recommendation structure
Q.1211	03-1993	Introduction to intelligent network capability set 1
Q.1213	10-1995	Global functional plane for intelligent network CS -1
Q.1214	10-1995	Distributed functional plane for intelligent network CS-1

Q.1215	10-1995	Physical plane for intelligent network CS-1	
Q.1218	10-1995	Interface Recommendation for intelligent network CS-1	
Q.1218 Addendum 1	09-1997	Definition for two new contexts in the SDF data model	
Q.1219	04-1994	Intelligent network user's guide for capability set 1	
Q.1220	09-1997	Q.1220-series Intelligent Network Capability Set 2 Recommendation structure	
Q.1221	09-1997	Introduction to Intelligent Network Capability Set 2	
Q.1222	09-1997	Service plane for Intelligent Network Capability Set 2	
Q.1223	09-1997	Global functional plane for Intelligent Network Capability Set 2	
Q.1224	09-1997	Distributed functional plane for intelligent network Capability Set 2 *This Recommendation is published in three fascicles.*	
Q.1225	09-1997	Physical plane for Intelligent Network Capability Set 2	
Q.1228	09-1997	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.*	
Q.1229	03-1999	Intelligent Network user's guide for capability Set 2 *This Recommendation is published in 5 fascicles.*	
Q.1231	12-1999	Introduction to Intelligent Network Capability Set 3	
Q.1236	12-1999	Intelligent Network Capability Set 3 - Management Information Model Requirements and Methodology	
Q.1237	06-2000	Extensions to Intelligent Network Capability Set 3 in Support of B-ISDN	Available only in PDF, see Disc 1
Q.1238	***Interface Recommendation for intelligent network capability set 3***		
Q.1238.1	06-2000	Interface Recommendation for intelligent network capability set 3 : Common aspects	
Q.1238.2	06-2000	Interface Recommendation for intelligent network capability set 3 : SCF-SSF interface	
Q.1238.3	06-2000	Interface Recommendation for intelligent network capability set 3 : SCF-SRF interface	
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Q.1248.1	07-2001	Interface recommendation for Intelligent Network Capability Set 4 : Interface Recommendation for Intelligent Network Capability Set 4 - Common aspects	Pre-published.
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Q.2730	12-1999	Signalling system No. 7 B-ISDN user part (B-ISUP) - Supplementary services	
Q.2735	***Stage 3 description for community of interest supplementary services for B-ISDN using SS No. 7***		
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Q.2951	***Stage 3 description for number identification supplementary services using B-ISDN digital subscriber signalling system No. 2 (DSS2) - Basic Call***	
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Q.2961E	12-2000	Digital subscriber signalling system No. 2 (DSS 2) - Additional traffic parameters: Test Suite Structure and Test Purposes (TSS & TP) for the network
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Q.2961C	12-2000	Digital subscriber signalling system No. 2 (DSS 2) - Additional traffic parameters: Test Suite Structure and Test Purposes (TSS & TP) for the user

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Q.2963.1	12-1999	Digital subscriber signalling system No. 2 - Connection modification : Peak cell rate modification by the connection owner
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Q.2971E	12-1999	Digital subscriber signalling system No. 2 - User-network interface layer 3 specification for point-to-multipoint call/connection control: Test Suite Structure and Test Purposes (TSS & TP) for the network *ITU-T Q.2971 E was previously numbered as Q.2971 quinquies during the approval process*	
Q.2971F	12-1999	Digital Subscriber Signalling System No. 2 - User-network interface layer 3 specification for point-to-multipoint call/connection control: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma for the network *ITU-T Q.2971 F was previously numbered as Q.2971 sexies during the approval process*	
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Q.2991	***Abstract test suite for the network integration testing for B-ISDN and B-ISDN/N-ISDN***		
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Q.Sup36	12-2000	Technical report TRQ.3030: Operation of the bearer independent call control (BICC) protocol (CS-2) with IP bearer control protocol (IPBCP)	
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R.2	11-1988	Element error rate	
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R.51*bis*	11-1988	Standardized text for testing the elements of a complete circuit	
R.51	11-1988	Standardized text for distortion testing of the code-independent elements of a complete circuit	
R.52	11-1988	Standardization of international texts for the measurement of the margin of start-stop equipment	
R.53	11-1988	Permissible limits for the degree of distortion on an international 50-baud/120-Hz VFT channel (frequency and amplitude modulation)	
R.54	03-1993	Conventional degree of distortion tolerable for standardized start-stop 50-baud systems	
R.55	03-1993	Conventional degree of distortion	
R.56	03-1993	Telegraph distortion limits to be quoted in Recommendations for equipment and transmission plans	
R.57	11-1988	Standard limits of transmission quality for planning code-independent international point-to-point telegraph communications and switched networks using 50-baud start-stop equipment	
R.58	11-1988	Standard limits of transmission quality for the gentex and telex networks	
R.58*bis*	11-1988	Limits on signal transfer delay for telegraph, telex and gentex networks	
R.59	11-1988	Interface requirements for 50-baud start-stop telegraph transmission in the maritime mobile satellite service	
R.60	11-1988	Conditions to be fulfilled by regenerative repeaters for start-stop signals of International Telegraph Alphabet No. 2	
R.62	11-1988	Siting of regenerative repeaters in international telex circuits	
R.70	11-1988	Designation of international telegraph circuits	
R.70*bis*	11-1988	Numbering of international VFT channels	
R.71	11-1988	Organization of the maintenance of international telegraph circuits	
R.72	11-1988	Periodicity of maintenance measurements to be carried out on the channels of international VFT systems	
R.73	11-1988	Maintenance measurements to be carried out on VFT systems	
R.74	11-1988	Choice of type of telegraph distortion-measuring equipment	
R.75	11-1988	Maintenance measurements on code-independent international sections of international telegraph circuits	
R.75*bis*	11-1988	Maintenance measurements of character error rate on international sections of international telegraph circuits	
R.76	11-1988	Reserve channels for maintenance measurements on channels of international VFT systems	
R.77	11-1988	Use of bearer circuits for voice-frequency telegraphy	
R.78	11-1988	Pilot channel for AMVFT systems	

R.79	11-1988	Automatic tests of transmission quality on telegraph circuits between switching centres
R.80	11-1988	Causes of disturbances to signals in VFT channels and their effect on telegraph distortion
R.81	11-1988	Maximum acceptable limit for the duration of interruption of telegraph channels arising from failure of the normal power supplies
R.82	11-1988	Appearance of false calling and clearing signals in circuits operated by switched teleprinter services
R.83	11-1988	Changes of level and interruptions in VFT channels
R.90	11-1988	Organization for locating and clearing faults in international telegraph switched networks
R.91	11-1988	General maintenance aspects for the maritime satellite telex service
R.100	03-1993	Transmission characteristics of international TDM links
R.101	03-1993	Code and speed dependent TDM system for anisochronous telegraph and data transmission using bit interleaving
R.102	03-1993	4800 bit/s code and speed dependent and hybrid TDM systems for anisochronous telegraph and data transmission using bit interleaving
R.103	11-1988	Code and speed-dependent TDM 600 bit/s system for use in point-to-point or branch-line muldex configurations
R.105	03-1993	Duplex muldex concentrator, connecting a group of gentex and telex subscribers to a telegraph exchange by assigning virtual channels to time slots of a bit-interleaved TDM system
R.106	08-1995	Muldex unit for telegraph and low speed data transmission using TDM bit interleaving with an aggregate bit rate higher than 4800 bit/s
R.111	03-1993	Code and speed independent TDM system for anisochronous telegraph and data transmission
R.112	03-1993	TDM hybrid system for anisochronous telegraph and data transmission using bit interleaving
R.113	03-1993	Combined muldex for telegraphy and synchronous data transmission
R.114	03-1993	Numbering of international TDM channels
R.115	03-1993	Maintenance loops for TDM-systems
R.116	11-1988	Maintenance tests to be carried out on international TDM systems
R.117	03-1993	End-to-end error performance for telegraph, telex and gentex connections involving regenerative equipment
R.118	03-1993	Performance and availability monitoring in regenerative TDM
R.120	11-1988	Tolerable limits for the degree of isochronous distortion of code-independent telegraph circuits operating at modulation rates of 75, 100 and 200 bauds
R.121	11-1988	Standard limits of transmission quality for start-stop user classes of service 1 and 2 on anisochronous data networks
R.122	11-1988	Summary of transmission plans for rates up to 300 bauds
R.140	11-1988	Definitions of essential technical terms in the field of telegraph transmission
R.150	11-1988	Automatic protection switching of dual diversity bearers

Series S: Telegraph services terminal equipment

Number	Approved in	Title	Status
S.1	03-1993	International Telegraph Alphabet No. 2	
S.2	11-1988	Coding scheme using International Telegraph Alphabet No. 2 (ITA2) to allow the transmission of capital and small letters	
S.3	11-1988	Transmission characteristics of the local end with its termination (ITA2)	
S.4	03-1993	Special use of certain characters of the International Telegraph Alphabet No. 2	
S.5	11-1988	Standardization of page-printing start-stop equipment and cooperation between page-printing and tape-printing start-stop equipment (ITA2)	
S.6	11-1988	Characteristics of answerback units (ITA2)	
S.7	11-1988	Control of teleprinter motors	
S.8	03-1993	Intercontinental standardization of the modulation rate of start-stop apparatus and of the use of combination No. 4 in figure-shift	
S.9	11-1988	Switching equipment of start-stop apparatus	
S.10	11-1988	Transmission at reduced character transfer rate over a standardized 50-baud telegraph channel	
S.11	11-1988	Use of start-stop reperforating equipment for perforated tape retransmission	
S.12	11-1988	Conditions that must be satisfied by synchronous systems operating in connection with standard 50-baud teleprinter circuits	
S.13	11-1988	Use on radio circuits of 7-unit synchronous systems giving error correction by automatic repetition	
S.14	11-1988	Suppression of unwanted reception in radiotelegraph multi-destination teleprinter systems	
S.15	11-1988	Use of the telex network for data transmission at 50 bauds	
S.16	03-1993	Connection to the telex network of an automatic terminal using a V.24 DCE/DTE interface	
S.17	11-1988	Answer-back unit simulators	
S.18	11-1988	Conversion between International Telegraph Alphabet No. 2 and International Alphabet No. 5	
S.19	11-1988	Calling and answering in the telex network with automatic terminal equipment	
S.20	03-1993	Automatic clearing procedure for a telex terminal	
S.21	03-1993	Use of display screens in telex machines	
S.22	03-1993	"Conversation impossible" and or pre-recorded message in response to J/BELL signals from a telex terminal	
S.23	03-1993	Automatic request of the answerback of the terminal of the calling party, by the telex terminal of the called party or by the international network	
S.30	11-1988	Standardization of basic model page-printing machine using International Alphabet No. 5	
S.31	11-1988	Transmission characteristics for start-stop data terminal equipment using International Alphabet No. 5	
S.32	11-1988	Answer-back units for 200- and 300-baud start-stop machines in accordance with Recommendation S.30	
S.33	03-1993	Alphabets and presentation characteristics for the intex service	
S.34	03-1993	Intex terminals – Requirements to effect interworking with the international telex service	
S.35	03-1993	Answerback coding for the Intex service	
S.36	07-1996	INTEX and similar services – Terminal requirements to effect interworking between terminals operating at different speeds	
S.140	11-1988	Definitions of essential technical terms relating to apparatus for alphabetic telegraphy	

Series T: Terminals for telematic services

Number	Approved in	Title	Status
T.0	07-1996	Classification of facsimile terminals for document transmission over the public networks	
T.1	11-1988	Standardization of phototelegraph apparatus	
T.4	04-1999	Standardization of Group 3 facsimile terminals for document transmission	
T.4 Amendment 1	02-2000		
T.4 Amendment 2	11-2000		Pre-published.
T.6	11-1988	Facsimile coding schemes and coding control functions for group 4 facsimile apparatus	
T.10*bis*	11-1988	Document facsimile transmissions in the general switched telephone network	
T.10	11-1988	Document facsimile transmissions on leased telephone-type circuits	
T.22	03-1993	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.*	
T.23	04-1994	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.*	
T.24	06-1998	Standardized digitized image set *This Recommendation includes 2 CD-ROMs containing the digitized image set.Note: Not available through Electronic Bookshop To purchase, please contact Sales@itu.int*	Available only in PDF, see Disc 1
T.30	04-1999	Procedures for document facsimile transmission in the general switched telephone network	
T.30 Amendment 1	02-2000	Amendment 1 (02/00) to Recommendation T.30	
T.30 Amendment 2	11-2000	Amendment 2	Pre-published.
T.30 Amendment 3	03-2001	Procedures for document facsimile transmission in the general switched telephone network	
T.30 Amendment 4	07-2001	Procedure for document facsimile transmission in the general switched telephone network	
T.30 Corrigendum 1	07-2001	Procedure for document facsimile transmission in the general switched telephone network	Pre-published.
T.31	08-1995	Asynchronous facsimile DCE control - Service Class 1	
T.31 Amendment 1	07-1996	Annex B: Procedure for Service Class 1 support of V.34 modems	
T.32	08-1995	Asynchronous facsimile DCE control - Service Class 2 *Covering Note 30.10.1997: Corrigendum*	
T.32 Amendment 1	07-1996		
T.33	07-1996	Facsimile routing utilizing the Subaddress	
T.35	02-2000	Procedure for the allocation of ITU-T defined codes for non-standard facilities	
T.36	07-1997	Security capabilities for use with Group 3 facsimile terminals	
T.36 Amendment 1	04-1999		
T.38	06-1998	Procedures for real-time Group 3 facsimile communication over IP networks	
T.38 Amendment 1	04-1999		
T.38 Amendment 2	02-2000		
T.38 Amendment 3	11-2000	Procedures for real-time group 3 facsimile communication over IP networks	Pre-published.
T.38 Amendment 4	07-2001	Procedures for real-time Group 3 facsimile communication over IP netwkorks	
T.39	10-1997	Application profiles for simultaneous voice and facsimile terminals	
T.42	10-1996	Continuous-tone colour representation method for facsimile	
T.43	07-1997	Colour and gray-scale image representations using lossless coding scheme for facsimile	
T.43 Amendment 1	02-2000	Accommodation of new and future Resolutions	
T.44	04-1999	Mixed raster content (MRC)	
T.44 Amendment 1	02-2000	Accommodation of new Annex B	
T.45	02-2000	Run-length colour encoding	
T.50	09-1992	International Reference Alphabet (IRA) (Formerly International Alphabet No. 5 or IA5) - Information technology - 7-bit coded character set for information interchange	
T.51	09-1992	Latin based coded character sets for telematic services	
T.51 Amendment 1	08-1995		
T.52	03-1993	Non-latin coded character sets for telematic services	
T.52 Amendment 1	10-1996		
T.53	04-1994	Character coded control functions for telematic services	
T.62	03-1993	Control procedures for teletex and Group 4 facsimile services	
T.62*bis*	03-1993	Control procedures for teletex and G4 facsimile services based on Recommendations X.215 and X.225	
T.66	04-1999	Facsimile code points for use with Recommendations V.8 and V.8 bis	
T.66 Amendment 1	02-2000		
T.70	03-1993	Network-independent basic transport service for the telematic services	
T.71	11-1988	Link access protocol balanced (LAPB) extended for half-duplex physical level facility	
T.80	09-1992	Common components for image compression and communication - Basic principles	

T.81	09-1992	Information technology - Digital compression and coding of continuous-tone still images - Requirements and guidelines	
T.82	03-1993	Information technology - Coded representation of picture and audio information - Progressive bi-level image compression	
T.82 Corrigendum 1	03-1995	Information technology - Coded representation of picture and audio information - Progressive bi-level image compression - Technical Corrigendum 1	
T.82 Corrigendum 2	03-2001	Information technology - Coded representation of picture and audio information - Progressive bi-level image compression	
T.83	11-1994	Information technology - Digital compression and coding of continuous-tone still images: Compliance testing *This Recommendation includes 3 diskettes containing compliance test data for the generic encoder and decoder compliance tests.*	
T.84	07-1996	Information technology - Digital compression and coding of continuous-tone still images: Extensions	
T.84 Amendment 1	04-1999	Provisions to allow registration of new compression types and versions in the SPIFF header	
T.85	08-1995	Application profile for Recommendation T.82 - Progressive bi-level image compression (JBIG coding scheme) for facsimile apparatus	
T.85 Amendment 1	10-1996		
T.85 Amendment 2	10-1997	*Covering note: 7 February 2000: French, Spanish only.*	
T.85 Corrigendum 1	02-1997		
T.86	06-1998	Information technology - Digital compression and coding of continuous-tone still images: Registration of JPEG Profiles, SPIFF Profiles, SPIFF Tags, SPIFF colour Spaces, APPn Markers, SPIFF Compression types and Registration Authorities (REGAUT) *Covering note, February 1999: Corrigendum*	
T.87	06-1998	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.*	
T.88	02-2000	Information technology - Coded representation of picture and audio information - Lossy/lossless coding of bi-level images *To be published*	
T.89 Amendment 1	07-2001	Application profiles for Recommendation T.88 - Lossy/Lossless coding of Bi-level Images (JBIG2) for facsimile	Pre-published.
T.90	02-1992	Characteristics and protocols for terminals for telematic services in ISDN	
T.90 Amendment 1	11-1994	Characteristics and protocols for terminals for telematic services in ISDN	
T.90 Amendment 2	07-1996		
T.90 Amendment 3	06-1998	Cause value for a G4 fax fallback	
T.100	11-1988	International information exchange for interactive videotex	
T.101	11-1994	International interworking for videotex services	
T.102	03-1993	Syntax-based videotex end-to-end protocols for the circuit mode ISDN	
T.103	03-1993	Syntax-based videotex end-to-end protocols for the packet mode ISDN	
T.104	03-1993	Packet mode access for syntax-based videotex via PSTN	
T.105	11-1994	Syntax-based videotex application layer protocol	
T.106	03-1993	Framework of videotex terminal protocols	
T.107	08-1995	Enhanced man machine interface for videotex and other retrieval services (VEMMI)	
T.120	07-1996	Data protocols for multimedia conferencing	
T.120 Annex C	02-1998	Lightweight profiles for the T.120 architecture	
T.121	07-1996	Generic application template	
T.122	02-1998	Multipoint communication service - Service definition	
T.123	05-1999	Network-specific data protocol stacks for multimedia conferencing	
T.124	02-1998	Generic Conference Control	
T.125	02-1998	Multipoint communication service protocol specification	
T.126	07-1997	Multipoint still image and annotation protocol	
T.127	08-1995	Multipoint binary file transfer protocol	
T.128	02-1998	Multipoint application sharing	
T.134	02-1998	Text chat application entity	
T.135	02-1998	User-to-reservation system transactions within T.120 conferences	
T.136	05-1999	Remote device control application protocol	
T.137	02-2000	Virtual meeting room management - services and protocol	
T.140	02-1998	Protocol for multimedia application text conversation	
T.140 Addendum 1	02-2000	Addendum 1	
T.150	11-1988	Telewriting terminal equipment	
T.170	02-1998	Framework of the T.170-Series of Recommendations	
T.171	10-1996	Protocols for interactive audiovisual services: coded representation of multimedia and hypermedia objects	
T.172	02-1998	MHEG-5 - Support for base-level interactive applications	
T.173	07-1997	MHEG-3 script interchange representation	
T.174	10-1996	Application programming interface (API) for MHEG-1	
T.175	02-1998	Application Programming Interface (API) for MHEG-5	
T.176	02-1998	Application Programming Interface (API) for Digital Storage Media Command and Control	

		(DSM-CC)
T.180	06-1998	Homogeneous access mechanism to communication services
T.190	08-1995	Cooperative document handling (CDH) - Framework and basic services
T.191	07-1996	Cooperative document handling (CDH) - Joint synchronous editing (point-to-point)
T.192	06-1998	Cooperative Document Handling - Complex services: Joint synchronous editing and joint document presentation/viewing
T.300	11-1988	General principles of telematic interworking
T.330	11-1988	Telematic access to interpersonal messaging system
T.351	11-1988	Imaging process of character information on facsimile apparatus
T.390	11-1988	Teletex requirements for interworking with the telex service
T.411	03-1993	Information technology - Open Document Architecture (ODA) and interchange format: Introduction and general principles
T.411 Corrigendum 1	10-1997	Technical Corrigendum 1
T.412	03-1993	Information technology - Open Document Architecture (ODA) and interchange format: Document structures
T.412 Corrigendum 1	10-1997	Technical Corrigendum 1
T.412 Corrigendum 2	10-1997	Technical Corrigendum 2
T.413	11-1994	Information technology - Open Document Architecture (ODA) and interchange format: Abstract interface for the manipulation of ODA documents
T.414	03-1993	Information technology - Open Document Architecture (ODA) and interchange format: Document profile
T.414 Corrigendum 1	10-1997	Technical Corrigendum 1
T.414 Corrigendum 2	10-1997	Technical Corrigendum 2
T.415	03-1993	Information technology - Open Document Architecture (ODA) and interchange format: Open Document Interchange Format (ODIF)
T.415 Corrigendum 1	10-1997	Technical Corrigendum 1
T.415 Corrigendum 2	10-1997	Technical Corrigendum 2
T.416	03-1993	Information technology - Open Document Architecture (ODA) and interchange format: Character content architectures
T.416 Corrigendum 1	10-1997	Technical Corrigendum 1
T.417	03-1993	Information technology - Open Document Architecture (ODA) and interchange format: Raster graphics content architectures
T.417 Amendment 1	10-1997	
T.417 Amendment 2	02-2000	Amendment 2
T.417 Corrigendum 1	10-1997	Technical Corrigendum 1
T.418	03-1993	Information technology - Open Document Architecture (ODA) and interchange format: Geometric graphics content architecture
T.419	08-1995	Information technology - Open Document Architecture (ODA) and interchange format: Audio content architectures
T.421	11-1994	Information technology - Open Document Architecture (ODA) and interchange format: Tabular structures and tabular layout
T.422	08-1995	Information technology - Open Document Architecture (ODA) and interchange format - Identification of document fragments
T.424	07-1996	Information technology - Open Document Architecture (ODA) and interchange format: Temporal relationships and non-linear structures
T.431	09-1992	Document Transfer And Manipulation (DTAM) - Services and protocols - Introduction and general principles
T.432	09-1992	Document Transfer And Manipulation (DTAM) - Services and protocols - Service definition
T.432 Amendment 1	08-1995	Revisions of T.432 to support G4 colour and file transfer
T.433	09-1992	Document Transfer And Manipulation (DTAM) - Services and protocols - Protocol specification
T.433 Amendment 1	08-1995	Revisions of T.433 to support G4 colour and file transfer
T.434	04-1999	Binary file transfer format for the telematic services
T.435	08-1995	Document Transfer And Manipulation (DTAM) - Services and protocols - Abstract service definition and procedures for confirmed document manipulation
T.436	08-1995	Document Transfer And Manipulation (DTAM) - Services and protocols - Protocol specifications for confirmed document manipulation
T.441	11-1988	Document Transfer And Manipulation (DTAM) - Operational structure
T.501	03-1993	Document application profile MM for the interchange of formatted mixed mode documents
T.502	11-1994	Document application profile PM-11 for the interchange of simple structure, character content documents in processable and formatted forms
T.503	02-2000	A document application profile for the interchange of Group 4 facsimile documents

T.504	03-1993	Document application profile for videotex interworking
T.505	11-1994	Document application profile PM -26 for the interchange of enhanced structure, mixed content documents in processable and formatted forms
T.506	08-1993	Document application profile PM -36 for the interchange of extended document structures and mixed content documents in processable and formatted forms
T.510	03-1993	General overview of the T.510 -Series Recommendations
T.521	11-1994	Communication application profile BT0 for document bulk transfer based on the session service
T.521 Amendment 1	08-1995	Communication application profile BT0 for document bulk transfer based on the session service - Amendment 1
T.522	09-1992	Communication application profile BT1 for document bulk transfer
T.523	03-1993	Communication application profile DM-1 for videotex interworking
T.541	03-1993	Operational application profile for videotex interworking
T.561	11-1988	Terminal characteristics for mixed mode of operation MM
T.562	11-1988	Terminal characteristics for teletex processable mode PM.1
T.563	10-1996	Terminal characteristics for Group 4 facsimile apparatus
T.563 Amendment 1	07-1997	
T.563 Amendment 2	10-1997	Annex C - T.30 frames for G4 facsimile
T.563 Amendment 3	04-1999	
T.563 Corrigendum 1	06-1998	Corrigendum 1
T.564	03-1993	Gateway characteristics for videotex interworking
T.571	09-1992	Terminal characteristics for the telematic file transfer within the teletex service
T.611	11-1994	Programming Communication Interface (PCI) APPLI/COM for facsimile Group 3, facsimile Group 4, teletex, telex, E-mail and file transfer services

Series U: Telegraph switching

Number	Approved in	Title	Status
U.1	03-1993	Signalling conditions to be applied in the international telex service	
U.2	11-1988	Standardization of dials and dial pulse generators for the international telex service	
U.3	11-1988	Arrangements in switching equipment to minimize the effects of false calling signals	
U.4	11-1988	Exchange of information regarding signals destined to be used over international circuits concerned with switched teleprinter networks	
U.5	11-1988	Requirements to be met by regenerative repeaters in international connections	
U.6	11-1988	Prevention of fraudulent transit traffic in the fully automatic international telex service	
U.7	03-1993	Numbering schemes for automatic switching networks	
U.8	11-1988	Hypothetical reference connections for telex and gentex networks	
U.10	03-1993	Equipment of an international telex position	
U.11	03-1993	Telex and gentex signalling on intercontinental circuits used for intercontinental automatic transit traffic (type c signalling)	
U.12	03-1993	Terminal and transit control signalling system for telex and similar services on international circuits (type D signalling)	
U.15	03-1993	Interworking rules for international signalling systems according to Recommendations U.1, U.11 and U.12	
U.20	11-1988	Telex and gentex signalling on radio channels (synchronous 7 -unit systems affording error correction by automatic repetition)	
U.21	11-1988	Operator recall on a telex call set up on a radiotelegraph circuit	
U.22	11-1988	Signals indicating delay in transmission on calls set up by means of synchronous systems with automatic error correction by repetition	
U.23	11-1988	Use of radiotelegraph circuits with ARQ equipment for fully automatic telex calls charged on the basis of elapsed time	
U.24	11-1988	Requirements for telex and gentex operation to be met by synchronous multiplex equipment described in Recommendation R.44	
U.25	11-1988	Requirements for telex and gentex operation to be met by code - and speed-dependent TDM systems conforming to Recommendation R.101	
U.30	11-1988	Signalling conditions for use in the international gentex network	
U.31	11-1988	Prevention of connection to faulty stations and/or station lines in the gentex service	
U.40	03-1993	Reactions by automatic terminals connected to the telex network in the event of ineffective call attempts or signalling incidents	
U.41	11-1988	changed address interception and call redirection in the telex service	
U.43	11-1988	Follow-on calls	
U.44	11-1988	Multi -address calls in real time for broadcast purposes in the international telex service	
U.45	03-1993	Response to the not-ready condition of the telex terminal	
U.46	03-1993	Interruption of automatic transmission and flow control in the international telex service	
U.60	11-1988	General requirements to be met in interfacing the international telex network with maritime satellite systems	
U.61	03-1993	Detailed requirements to be met in interfacing the international telex network with maritime satellite systems	
U.62	03-1993	General requirements to be met in interfacing the international telex network with the fully automated maritime VHF/UHF radio system	
U.63	11-1988	General requirements to be met in interfacing the international telex network with the maritime "direct printing" system	
U.70	11-1988	Telex service signals for telex to teletex interworking	
U.74	11-1988	Extraction of telex selection information from a calling telex answerback	
U.75	03-1993	Automatic called telex answerback check	
U.80	03-1993	International telex store and forward access from a telex subscriber	
U.81	10-1996	International telex store-and-forward - Delivery to a telex subscriber	
U.101	03-1993	Signalling systems for the Intex service (types E and F signalling)	
U.102	07-1996	Intex and similar services - Network requirements to effect interworking between terminals operating at different speeds	
U.140	11-1988	Definitions of essential technical terms relating to telegraph switching and signalling	
U.200	03-1993	The international telex service - General technical requirements for interworking	
U.201	03-1993	Interworking between the teletex service and the international telex service	
U.202	03-1993	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*	
U.203	03-1993	Technical requirements to be met when providing real-time bothway communications between terminals of the international telex service and data terminal equipments on a PSPDN or via the PSTN	
		Interworking between the international telex service and the public interpersonal messaging	

U.204	03-1993	service
U.205	03-1993	Store-and-retrieve facility for the delivery of messages from a terminal of the international telex service to a data terminal equipment which connects to a packet -switched public data network over the public switched telephone network
U.206	03-1993	Technical requirements for interworking between the international telex service and the videotex service
U.207	03-1993	Technical requirements to be met for the transfer of messages between terminals of the international telex service and group 3 facsimile terminals connected to the PSTN
U.208	10-1996	The international telex service - Interworking with the INMARSAT C system using one -stage selection
U.210	03-1993	Intex service Network requirements to effect interworking with the international telex service
U.220	03-1993	The international telex service - Technical requirements for a status enquiry function in an interworking scenario

Series V: Data communication over the telephone network

Number	Approved in	Title	Status
V.1	11-1988	Equivalence between binary notation symbols and the significant conditions of a two-condition code	
V.2	11-1988	Power levels for data transmission over telephone lines	
V.4	11-1988	General structure of signals of international alphabet No. 5 code for character oriented data transmission over public telephone networks	
V.7	11-1988	Definitions of terms concerning data communication over the telephone network	
V.8	11-2000	Procedures for starting sessions of data transmission over the public switched telephone network	
V.10	03-1993	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.*	
V.11	10-1996	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*	
V.12	08-1995	Electrical characteristics for balanced double-current interchange circuits for interfaces with data signalling rates up to 52 Mbit/s	
V.13	03-1993	Simulated carrier control	
V.14	03-1993	Transmission of start-stop characters over synchronous bearer channels	
V.14 Corrigendum 1	09-1998	Corrigendum 1	
V.15	11-1988	Use of acoustic coupling for data transmission	
V.16	11-1988	Medical analogue data transmission modems	
V.17	02-1991	A 2-wire modem for facsimile applications with rates up to 14 400 bit/s	
V.17 Corrigendum 1	09-1998	Corrigendum 1	
V.18	11-2000	Operational and interworking requirements for DCEs operating in the text telephone mode *Available as a prepublished version*	
V.19	11-1988	Modems for parallel data transmission using telephone signalling frequencies	
V.21	11-1988	300 bits per second duplex modem standardized for use in the general switched telephone network	
V.22	11-1988	1200 bits per second duplex modem standardized for use in the general switched telephone network and on point-to-point 2-wire leased telephone-type circuits	
V.22*bis*	11-1988	2400 bits per second duplex modem using the frequency division technique standardized for use on the general switched telephone network and on point-to-point 2-wire leased telephone-type circuits	
V.23	11-1988	600/1200-baud modem standardized for use in the general switched telephone network	
V.24	02-2000	List of definitions for interchange circuits between data terminal equipment (DTE) and data circuit-terminating equipment (DCE)	
V.25	10-1996	Automatic answering equipment and general procedures for automatic calling equipment on the general switched telephone network including procedures for disabling of echo control devices for both manually and automatically established calls	
V.25*bis*	10-1996	Synchronous and asynchronous automatic dialling procedures on switched networks	
V.25 Corrigendum 1	07-2001	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	
V.26*bis*	11-1988	2400/1200 bits per second modem standardized for use in the general switched telephone network	
V.26*ter*	11-1988	2400 bits per second duplex modem using the echo cancellation technique standardized for use on the general switched telephone network and on point-to-point 2-wire leased telephone-type circuits	
V.26	11-1988	2400 bits per second modem standardized for use on 4-wire leased telephone-type circuits	
V.27	11-1988	4800 bits per second modem with manual equalizer standardized for use on leased telephone-type circuits	
V.27*bis*	11-1988	4800/2400 bits per second modem with automatic equalizer standardized for use on leased telephone-type circuits	
V.27*ter*	11-1988	4800/2400 bits per second modem standardized for use in the general switched telephone network	
V.28	03-1993	Electrical characteristics for unbalanced double-current interchange circuits	
V.29	11-1988	9600 bits per second modem standardized for use on point-to-point 4-wire leased telephone-type circuits	
V.31	11-1988	Electrical characteristics for single-current interchange circuits controlled by contact closure	
V.31*bis*	11-1988	Electrical characteristics for single-current interchange circuits using optocouplers	
V.32	03-1993	A family of 2-wire, duplex modems operating at data signalling rates of up to 9600 bit/s for use on the general switched telephone network and on leased telephone-type circuits	
		A duplex modem operating at data signalling rates of up to 14 400 bit/s for use on the general	

V.32*bis*	02-1991	switched telephone network and on leased point-to-point 2-wire telephone-type circuits	
V.33	11-1988	14 400 bits per second modem standardized for use on point-to-point 4-wire leased telephone-type circuits	
V.34	02-1998	A modem operating at data signalling rates of up to 33 600 bit/s for use on the general switched telephone network and on leased point-to-point 2-wire telephone-type circuits	
V.36	11-1988	Modems for synchronous data transmission using 60-108 kHz group band circuits	
V.37	11-1988	Synchronous data transmission at a data signalling rate higher than 72 kbit/s using 60-108 kHz group band circuits	
V.38	10-1996	A 48/56/64 kbit/s data circuit-terminating equipment standardized for use on digital point-to-point leased circuits	
V.41	11-1988	Code-independent error-control system	
V.42*bis*	01-1990	Data compression procedures for data circuit-terminating equipment (DCE) using error correction procedures	
V.42	10-1996	Error-correcting procedures for DCEs using asynchronous-to-synchronous conversion	
V.42 Appendix 6	11-2000	Additional information for V.42 implementers regarding answerer detection patterns	
V.43	02-1998	Data flow control	
V.44	11-2000	Data compression procedures	
V.50	11-1988	Standard limits for transmission quality of data transmission	
V.53	11-1988	Limits for the maintenance of telephone-type circuits used for data transmission	
V.56	11-1988	Comparative tests of modems for use over telephone-type circuits	
V.56*bis*	08-1995	Network transmission model for evaluating modem performance over 2-wire voice grade connections	
V.56*ter*	08-1996	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.*	
V.58	09-1994	Management information model for V-Series DCEs	
V.59	11-2000	Managed objects for diagnostic information of public switched telephone network connected V-series modem DCE's	
V.59 Corrigendum 1	07-2001	ITU-T Corrigendum 1 (07/01) to Recommendation V.59 - Managed objects for diagnostic information of public switched telephone network connected V-series modem DCES	Pre-published.
V.61	08-1996	A simultaneous voice plus data modem, operating at a voice plus data signalling rate of 4800 bit/s, with optional automatic switching to data-only signalling rates of up to 14 400 bit/s, for use on the general switched telephone network and on leased point-to-point 2-wire telephone type circuits	
V.70	08-1996	Procedures for the simultaneous transmission of data and digitally encoded voice signals over the GSTN, or over 2-wire leased point-to-point telephone type circuits	
V.75	08-1996	DSVD terminal control procedures	
V.75 Appendix II	02-1998	Session establishment using V.75/H.245 procedures	
V.76	08-1996	Generic multiplexer using V.42 LAPM-based procedures	
V.80	08-1996	In-band DCE control and synchronous data modes for asynchronous DTE	
V.80 Amendment 1	07-2001	ITU-T Amendment 1 (07/01) to Recommendation V.80 - In-Band DCE Control and Synchronous Data Modes for Asynchronous DTE	
V.90	09-1998	A digital modem and analogue modem pair for use on the Public Switched Telephone Network (PSTN) at data signalling rates of up to 56 000 bit/s downstream and up to 33 600 bit/s upstream	
V.91	05-1999	A digital modem operating at data signalling rates of up to 64 000 bit/s for use on a 4-wire circuit switched connection and on leased point-to-point 4-wire digital circuits	
V.91 Corrigendum 1	07-2001	ITU-T Corrigendum 1 (07/01) to Recommendation V.91 - 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	Pre-published.
V.92	11-2000	Enhancements to Recommendation V.90	
V.92 Amendment 1	07-2001	ITU-T Amendment 1 (07/01) to Recommendation V.92 - Enhancements to Recommendation V.90	
V.100	11-1988	Interconnection between public data networks (PDNs) and the public switched telephone networks (PSTN)	
V.110	02-2000	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.*	
V.120	10-1996	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*	
V.120 Corrigendum 1	05-1999	Corrigendum 1	
V.130	08-1995	ISDN terminal adaptor framework	
V.140	02-1998	Procedures for establishing communication between two multiprotocol audiovisual terminals using digital channels at a multiple of 64 or 56 kbit/s	
V.230	11-1988	General data communications interface layer 1 specification	
V.250	05-1999	Serial asynchronous automatic dialling and control	
V.250 Amendment 1	07-2001	ITU-T Amendment 1 (07/01) to Recommendation V.250 - Serial asynchronous automatic dialling and control	Pre-published.
V.251	02-1998	Procedure for DTE-controlled call negotiation *Published as Annex A to V.25 ter (07/97), renumbered in february 98 without being republished.*	
V.252	02-1998	Procedure for control of V.70 and H.324 terminals by a DTE	
V.253	02-1998	Control of voice-related functions in a DCE by an asynchronous DTE	
V.300	07-1999	A 128 (144) kbit/s data circuit-terminating equipment standardized for use on digital point-to-point leased circuits	

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Number	Approved in	Title	Status
X.1	03-2000	International user classes of service in, and categories of access to, public data networks and Integrated Services Digital Networks (ISDNs)	
X.2	03-2000	International data transmission services and optional user facilities in public data networks and ISDNs	
X.3	03-2000	Packet assembly/disassembly facility (PAD) in a public data network	
X.4	11-1988	General structure of signals of International Alphabet No. 5 code for character oriented data transmission over public data networks	
X.5	10-1996	Facsimile Packet Assembly/Disassembly facility (FPAD) in a public data network	
X.6	08-1997	Multicast service definition	
X.6 Amendment 1	03-2000	Frame relay PVC multicast service definition	
X.7	03-2000	Technical characteristics of data transmission services	
X.8	07-1994	Multi-aspect PAD (MAP) framework and service definition	
X.20	11-1988	Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for start-stop transmission services on public data networks	
X.20*bis*	11-1988	Use on public data networks of Data Terminal Equipment (DTE) which is designed for interfacing to asynchronous duplex V-Series modems	
X.21	09-1992	Interface between Data Terminal Equipment and Data Circuit-terminating Equipment for synchronous operation on public data networks	
X.21*bis*	11-1988	Use on public data networks of Data Terminal Equipment (DTE) which is designed for interfacing to synchronous V-Series modems	
X.22	11-1988	Multiplex DTE/DCE interface for user classes 3-6	
X.24	11-1988	List of definitions for interchange circuits between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) on public data networks	
X.25	10-1996	Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for terminals operating in the packet mode and connected to public data networks by dedicated circuit	
X.25 Corrigendum 1	09-1998		
X.28	12-1997	DTE/DCE interface for a start-stop mode Data Terminal Equipment accessing the Packet Assembly/Disassembly facility (PAD) in a public data network situated in the same country	
X.28 Amendment 1	03-2000	Extensions of PAD parameter settings and PAD service signals	
X.29	12-1997	Procedures for the exchange of control information and user data between a Packet Assembly/Disassembly (PAD) facility and a packet mode DTE or another PAD	
X.30	03-1993	Support of X.21, X.21 bis and X.20 bis based Data Terminal Equipments (DTEs) by an Integrated Services Digital Network (ISDN) *This Recommendation is also included but not published in I series under alias number I.461*	
X.31	11-1995	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*	
X.32	10-1996	Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for terminals operating in the packet mode and accessing a packet-switched public data network through a public switched telephone network or an integrated services digital network or a circuit-switched public data network	
X.33	10-1996	Access to packet-switched data transmission services via frame relaying data transmission services	
X.34	10-1996	Access to packet-switched data transmission services via B-ISDN	
X.34 Corrigendum 1	03-2000		
X.35	11-1993	Interface between a PSPDN and a private PSDN which is based on X.25 procedures and enhancements to define a gateway function that is provided in the PSPDN	
X.36	03-2000	Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for public data networks providing frame relay data transmission service by dedicated circuit	
X.37	04-1995	Encapsulation in X.25 packets of various protocols including frame relay	
X.38	10-1996	G3 facsimile equipment/DCE interface for G3 facsimile equipment accessing the Facsimile Packet Assembly/Disassembly facility (FPAD) in a public data network situated in the same country	
X.39	10-1996	Procedures for the exchange of control information and user data between a Facsimile Packet Assembly/Disassembly (FPAD) facility and a packet mode Data Terminal Equipment (DTE) or another FPAD	
X.42	03-2000	Procedures and methods for accessing a public data network from a DTE operating under control of a generalized polling protocol *Available as a prepublished version*	
X.45	10-1996	Interface between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for terminals operating in the packet mode and connected to public data networks, designed for efficiency at higher speeds	

X.46	09-1998	Access to FRDTS via B-ISDN	
X.48	10-1996	Procedures for the provision of a basic multicast service for Data Terminal Equipments (DTEs) using Recommendation X.25	
X.49	10-1996	Procedures for the provision of an extended multicast service for Data Terminal Equipments (DTEs) using Recommendation X.25	
X.50	11-1988	Fundamental parameters of a multiplexing scheme for the international interface between synchronous data networks	
X.50*bis*	11-1988	Fundamental parameters of a 48-kbit/s user data signalling rate transmission scheme for the international interface between synchronous data networks	
X.51	11-1988	Fundamental parameters of a multiplexing scheme for the international interface between synchronous data networks using 10-bit envelope structure	
X.51*bis*	11-1988	Fundamental parameters of a 48-kbit/s user data signalling rate transmission scheme for the international interface between synchronous data networks using 10-bit envelope structure	
X.52	11-1988	Method of encoding anisochronous signals into a synchronous user bearer	
X.53	03-1993	Numbering of channels on international multiplex links at 64 kbit/s	
X.54	11-1988	Allocation of channels on international multiplex links at 64 kbit/s	
X.55	11-1988	Interface between synchronous data networks using a 6 + 2 envelope structure and single channel per carrier (SCPC) satellite channels	
X.56	11-1988	Interface between synchronous data networks using an 8 + 2 envelope structure and single channel per carrier (SCPC) satellite channels	
X.57	11-1988	Method of transmitting a single lower speed data channel on a 64 kbit/s data stream	
X.58	11-1988	Fundamental parameters of a multiplexing scheme for the international interface between synchronous non-switched data networks using no envelope structure	
X.60	11-1988	Common channel signalling for circuit-switched data applications	
X.70	11-1988	Terminal and transit control signalling system for start-stop services on international circuits between anisochronous data networks	
X.71	11-1988	Decentralized terminal and transit control signalling system on international circuits between synchronous data networks	
X.75	10-1996	Packet-switched signalling system between public networks providing data transmission services	
X.75 Corrigendum 1	09-1998		
X.76	03-2000	Network-to-network interface between public networks providing PVC and/or SVC frame relay data transmission service	
X.77	08-1997	Interworking between PSPDNs via B-ISDN	
X.77 Corrigendum 1	03-2000		
X.78	06-1999	Interworking procedures between networks providing frame relay data transmission services via B-ISDN	
X.78 Corrigendum 1	03-2000	Corrigendum 1	
X.80	11-1988	Interworking of interexchange signalling systems for circuit-switched data services	
X.81	11-1988	Interworking between an ISDN circuit-switched and a circuit-switched public data network (CSPDN)	
X.82	11-1988	Detailed arrangements for interworking between CSPDNs and PSPDNs based on Recommendation T.70	
X.85/Y.1321	03-2001	IP over SDH using LAPS	
X.86	02-2001	Ethernet over LAPS	Pre-published.
X.92	11-1988	Hypothetical reference connections for public synchronous data networks	
X.96	03-2000	Call progress signals in public data networks	
X.110	10-1996	International routing principles and routing plan for public data networks	
X.115	04-1995	Definition of address translation capability in public data networks	
X.115 Amendment 1	10-1996	Refinements	
X.116	10-1996	Address translation registration and resolution protocol	
X.121	10-2000	International numbering plan for public data networks	
X.122/E.166	03-1998	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*	
X.123	10-1996	Mapping between escape codes and TOA/NPI for E.164/X.121 numbering plan interworking during the transition period	
X.124	06-1999	Arrangements for the interworking of the E.164 and X.121 numbering plans for frame relay and ATM networks	
X.125	09-1998	Procedure for the notification of the assignment of international network identification codes for public frame relay data networks and ATM networks numbered under the E.164 numbering plan	
X.130	11-1988	Call processing delays in public data networks when providing international synchronous circuit-switched data services	
X.131	11-1988	Call blocking in public data networks when providing international synchronous circuit-switched data services	
X.134	08-1997	Portion boundaries and packet-layer reference events: Basis for defining packet-switched performance parameters	
X.135	08-1997	Speed of service (delay and throughput) performance values for public data networks when providing international packet-switched services *Published with ITU-T T.135.*	
X.136	08-1997	Accuracy and dependability performance values for public data networks when providing international packet-switched services	

X.137	08-1997	Availability performance values for public data networks when providing international packet-switched services	
X.138	08-1997	Measurement of performance values for public data networks when providing international packet-switched services	
X.139	08-1997	Echo, drop, generator and test DTEs for measurement of performance values in public data networks when providing international packet-switched services	
X.140	09-1992	General quality of service parameters for communication via public data networks	
X.141	11-1988	General principles for the detection and correction of errors in public data networks *A Corrigendum was indicated in 06/1990 for the English version.*	
X.144	10-2000	User information transfer performance parameters for data networks providing international frame relay PVC service *Available as a prepublished version*	
X.145	10-1996	Performance for data networks providing international frame relay SVC service	
X.146	10-2000	Performance objectives and quality of service classes applicable to frame relay	
X.150	11-1988	Principles of maintenance testing for public data networks using Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) test loops	
X.160	10-1996	Architecture for customer network management service for public data networks	
X.161	08-1997	Definition of customer network management services for public data networks	
X.162	03-2000	Definition of management information for customer network management service for public data networks to be used with the CNMc interface	
X.163	04-1995	Definition of management information for customer network management service for public data networks to be used with the CNMe interface	
X.170	06-1999	Network-network management architecture for data networks	
X.171	03-2000	Network-network management services for data networks	
X.180	11-1988	Administrative arrangements for international closed user groups (CUGs)	
X.181	11-1988	Administrative arrangements for the provision of international permanent virtual circuits (PVCs)	
X.200	07-1994	Information technology - Open Systems Interconnection - Basic Reference Model: The basic model	
X.207	11-1993	Information technology - Open Systems Interconnection - Application layer structure	
X.208	11-1988	Specification of Abstract Syntax Notation One (ASN.1) *Planned for withdrawal as it has been superseded by ITU-T X.680-X.683 (1997).*	
X.209	11-1988	Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1) *Planned for withdrawal as it has been superseded by ITU-T X.690-X.691 (1997).*	
X.210	11-1993	Information technology - Open systems interconnection - Basic Reference Model: Conventions for the definition of OSI services	
X.211	11-1995	Information technology - Open systems interconnection - Physical service definition	
X.212	11-1995	Information technology - Open systems interconnection - Data Link service definition	
X.213	10-2001	Information technology - Open systems Interconnection - Systems Interconnection - Network Service Definition	Pre-published.
X.214	11-1995	Information technology - Open Systems Interconnection - Transport service definition	
X.215	11-1995	Information technology - Open Systems Interconnection - Session service definition	
X.215 Amendment 1	08-1997	Efficiency enhancements	
X.215 Amendment 2	12-1997	Nested connections functional unit	
X.215 Corrigendum 1	03-2000	Corrigendum 1	
X.216	07-1994	Information technology - Open Systems Interconnection - Presentation service definition	
X.216 Amendment 1	08-1997	Efficiency enhancements	
X.216 Amendment 2	12-1997	Nested connections functional unit	
X.217*bis*	09-1998	Information technology - Open Systems Interconnection - Service definition for the Application Service Object Association Control Service Element	
X.217	04-1995	Information technology - Open Systems Interconnection - Service definition for the Association Control Service Element	
X.217 Amendment 1	10-1996	Support of authentication mechanisms for the connectionless mode	
X.217 Amendment 2	08-1997	Fast-associate mechanism	
X.218	03-1993	Reliable Transfer: Model and service definition	
X.219	11-1988	Remote Operations: Model, notation and service definition	
X.220	03-1993	Use of X.200-Series protocols in CCITT applications	
X.222	04-1995	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).*	
X.222 Amendment 1	10-1996	Frame relay mapping	
X.223	11-1993	Use of X.25 to provide the OSI connection-mode Network service for ITU-T applications	
X.223 Amendment 1	10-1996	Transit delay and other refinements	
X.224	11-1995	Information technology - Open Systems Interconnection - Protocol for providing the connection-mode transport service	

X.224 Amendment 1	08-1997	Relaxation of class conformance requirements and expedited data service feature negotiation
X.225	11-1995	Information technology - Open Systems Interconnection - Connection-oriented Session protocol: Protocol specification
X.225 Amendment 1	08-1997	Efficiency enhancements
X.225 Amendment 2	12-1997	Nested connections functional unit
X.225 Corrigendum 1	03-2000	Corrigendum 1
X.226	07-1994	Information technology - Open Systems Interconnection - Connection-oriented Presentation protocol: Protocol specification
X.226 Amendment 1	08-1997	Nested connections functional unit
X.226 Amendment 2	12-1997	Nested connections functional unit
X.227	04-1995	Information technology - Open Systems Interconnection - Connection-oriented protocol for the Association Control Service Element: Protocol specification
X.227*bis*	09-1998	Information technology - Open Systems Interconnection - Connection-mode protocol for the Application Service Object Association Control Service Element
X.227 Amendment 1	10-1996	Incorporation of extensibility markers
X.227 Amendment 2	08-1997	Fast-associate mechanism
X.228	11-1988	Reliable Transfer: Protocol specification
X.228 Corrigendum 1	03-2000	Corrigendum 1
X.229	11-1988	Remote Operations: Protocol specification
X.233	08-1997	Information technology - Protocol for providing the connectionless-mode network service: Protocol specification
X.234	07-1994	Information technology - Protocol for providing the OSI connectionless-mode transport service
X.234 Amendment 1	11-1995	Addition of connectionless-mode multicast capability
X.235	04-1995	Information technology - Open Systems Interconnection - Connectionless Session protocol: Protocol specification
X.235 Amendment 1	06-1999	Efficiency enhancements
X.236	04-1995	Information technology - Open Systems Interconnection - Connectionless Presentation protocol: Protocol specification
X.236 Amendment 1	06-1999	Efficency enhancements
X.237	04-1995	Information technology - Open Systems Interconnection - Connectionless protocol for the Association Control Service Element: Protocol specification
X.237*bis*	09-1998	Information technology - Open Systems Interconnection - Connectionless protocol for the Application Service Object Association Control Service Element
X.237 Amendment 1	10-1996	Incorporation of extensibility markers and authentication parameters
X.237 Amendment 1 Corrigendum 1	06-1999	Technical Corridendum 1
X.245	04-1995	Information technology - Open Systems Interconnection - Connection-oriented Session protocol: Protocol Implementation Conformance Statement (PICS) proforma
X.246	10-1996	Information technology - Open Systems Interconnection - Connection-oriented presentation protocol: Protocol Implementation Conformance Statement (PICS) proforma
X.247	10-1996	Information technology - Open Systems Interconnection - Protocol specification for the association control service element: Protocol Implementation Conformance Statement (PICS) proforma
X.248	11-1995	Information technology - Open Systems Interconnection - Reliable Transfer: Protocol Implementation Conformance Statement (PICS) proforma
X.249	11-1995	Information technology - Open Systems Interconnection - Remote Operations: Protocol Implementation Conformance Statement (PICS) proforma
X.255	04-1995	Information technology - Open Systems Interconnection - Connectionless Session protocol: Protocol Implementation Conformance Statement (PICS) proforma
X.256	04-1995	Information technology - Open Systems Interconnection - Connectionless Presentation protocol: Protocol Implementation Conformance Statement (PICS) proforma
X.257	04-1995	Information technology - Open Systems Interconnection - Connectionless protocol for the Association Control Service Element: Protocol Implementation Conformance Statement (PICS) proforma
X.257 Amendment 1	10-1996	Support of authentication parameters
X.260	10-1996	Information technology - Framework for protocol identification and encapsulation
X.263	09-1998	Information technology - Protocol identification in the Network Layer
X.264	11-1993	Transport protocol identification mechanism
X.272	03-2000	Data compression and privacy over frame relay networks
X.273	07-1994	Information technology - Open Systems Interconnection - Network layer security protocol
X.274	07-1994	Information technology - Telecommunication and information exchange between systems -

		Transport layer security protocol	
X.281	06-1999	Information technology - Elements of management information related to the OSI Physical Layer	
X.282	06-1999	Elements of management information related to the OSI Data Link layer	
X.283	12-1997	Information technology - Elements of management information related to the OSI Network layer	
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X.287	03-1999	Information technology - Open Systems Interconnection - Structure of management information: Managed objects for supporting upper layers	
X.290	04-1995	OSI conformance testing methodology and framework for protocol Recommendations for ITU -T applications - General concepts	
X.291	04-1995	OSI conformance testing methodology and framework for protocol Recommendations for ITU -T applications - Abstract test suite specification	
X.292	09-1998	OSI conformance testing methodology and framework for protocol Recommendations for ITU -T applications - The Tree and Tabular Combined Notation (TTCN)	
X.293	04-1995	OSI conformance testing methodology and framework for protocol Recommendations for ITU -T applications - Test realization	
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X.295	04-1995	OSI conformance testing methodology and framework for protocol Recommendations for ITU -T applications - Protocol profile test specification	
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X.300	10-1996	General principles for interworking between public networks and between public networks and other networks for the provision of data transmission services	
X.301	10-1996	Description of the general arrangements for call control within a subnetwork and between subnetworks for the provision of data transmission services	
X.302	11-1988	Description of the general arrangements for internal network utilities within a subnetwork and intermediate utilities between subnetworks for the provision of data transmission services	
X.305	11-1988	Functionalities of subnetworks relating to the support of the OSI connection -mode network service	
X.320	10-1996	General arrangements for interworking between integrated services digital networks (ISDNs) for the provision of data transmission services	
X.321	10-1996	General arrangements for interworking between Circuit-Switched Public Data Networks (CSPDNs) and Integrated Services Digital Networks (ISDNs) for the provision of data transmission services *This Recommendation is also included but not published in I series under alias number I.540*	
X.322	11-1988	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	
X.323	11-1988	General arrangements for interworking between Packet -Switched Public Data Networks (PSPDNs)	
X.324	11-1988	General arrangements for interworking between Packet -Switched Public Data Networks (PSPDNs) and public mobile systems for the provision of data transmission services	
X.325	10-1996	General arrangements for interworking between Packet -Switched Public Data Networks (PSPDNs) and Integrated Services Digital Networks (ISDNs) for the provision of data transmission services *This Recommendation is also included but not published in I series under alias number I.550*	
X.326	11-1988	General arrangements for interworking between Packet -Switched Public Data Networks (PSPDNs) and Common Channel Signalling Network (CCSN)	
X.327	11-1993	General arrangements for interworking between Packet -Switched Public Data Networks (PSPDNs) and private data networks for the provision of data transmission services	
X.328	10-1996	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	
X.329	03-2000	General arrangements for interworking between networks providing frame relay data transmission services and B-ISDN	
X.340	03-1993	General arrangements for interworking between a Packet-Switched Public Data Network (PSPDN) and the international telex network	
X.350	12-1997	General interworking requirements to be met for data transmission in international public mobile satellite systems	
X.351	11-1988	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	
X.352	11-1988	Interworking between packet -switched public data networks and public maritime mobile satellite data transmission systems	
X.353	11-1988	Routing principles for interconnecting public maritime mobile satellite data transmission systems with public data networks	
X.361	10-1996	Connection of VSAT systems with Packet-Switched Public Data Networks based on X.25 procedures	
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Y.1704/G.7713	12-2001	Distributed call and connection management (DCM)	Pre-published
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Y.1710	07-2001	Requirements for OAM functionality for MPLS networks	

Series Z: Languages and general software aspects for telecommunication systems

Number	Approved in	Title	Status
Z.100	11-1999	Specification and description language (SDL)	
Z.100 Annex F1	11-2000	SDL formal definition	Pre-published.
Z.100 Corrigendum 1	10-2001	Specification and description language (SDL)	Pre-published.
Z.100 Supplement 1	05-1997	SDL+ methodology: Use of MSC and SDL (with ASN.1)	
Z.105	10-2001	SDL combined with ASN.1 modules (SDL/ASN.1)	Pre-published.
Z.106	11-2000	Common interchange format for SDL	Pre-published.
Z.107	11-1999	SDL with embedded ASN.1	
Z.109	11-1999	SDL combined with UML	
Z.110	11-2000	Criteria for use of formal description techniques by ITU-T	
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Z.120 Annex B	04-1998	Formal semantics of message sequence charts	Pre-published. Available only in PDF, see Disc 1
Z.120 Corrigendum 1	12-2001	Corrigendum 1	Pre-published.
Z.130	02-1999	ITU object definition language	
Z.140	07-2001	The tree and tabular combined notation version 3 (TTCN-3): Core language	Pre-published.
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ITU-T SOFTWARE

This software is included in the CD-ROM with the recommendation in a ZIP file
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Series	Subject
G.191 (11/96)	This Recommendation includes 3 diskettes which contain the Software Tools Library 96 (STL-96) and the STL-96 Manual
G.722 Appendix II (03/87)	This document corresponds to ITU-T Rec. G.722 Appendix II which was published in the Blue Book (1988). It includes one diskette containing the digital test sequences for the verification of the G.722 SB -ADPCM codec
G.722.1 (09/99)	This annex includes one CD-ROM containing the reference code and the test vectors for ITU-T G.722.1 algorithm implementation verification
G.723.1 Annex A (11/96)	This annex includes 3 diskettes which are common to the Recommendation 's main body and to this annex, and which contain test vectors and the C reference code for implementation verification of the G.723.1 fixed point dual rate speech coder for multimedia communications
G.723.1 Annex B (11/96)	This annex includes one CD-ROM containing the reference code and the test vectors for implementation verification of the G.723.1 floating point speech coder. The CD -ROM may be replaced on demand by 14 diskettes
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G.726 Appendix II test vectors (03/91)	This document corresponds to ITU-T Rec. G.726 Appendix II. It includes 2 diskettes containing respectively the A -Law and m-Law digital test sequences for the verification of the G.726 ADPCM codec imple mentations. The document reproduces the user guide published in the CCITT Collective Letter No. 11/XV (1991)
G.727 Appendix I test vectors (03/91)	This document corresponds to ITU-T Rec. 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 Letter No. 12/XV (1991)
G.728 Annex H (05/99)	This annex includes one CD-ROM containing the test data for verification of ITU -T Rec. G.728 Annex H low bit-rate LD-CELP imple mentations
G.728 Annex J (09/99)	This annex includes one CD-ROM containing the test vectors for verification of ITU -T Rec. G.728 Annex J variable bit -rate LD-CELP imple mentations
G.728 Appendix I Software (07/95)	This document corresponds to ITU-T Rec. G.728 Appendix I. It includes 4 diskettes containing programs and test sequences for verification of the floating point and fixed point implementations of the G.728 LD-CELP algorithm. The document reproduces the user guide published in the CCITT Collective Letter No. 17/XV (1992)
G.729 (03/96)	This Recommendation includes 3 diskettes containing source code and test sequences for implementation verification of the algorithm of the G.729 8 kbit/s CS -ACELP speech coder
G.729 Annex A (11/96)	This annex includes 3 diskettes containing source code and test sequences for implementation verification of the algorithm of the G.729 reduced complexity

	8 kbit/s CS-ACELP speech coder
G.729 Annex B (10/96)	This annex includes one diskette containing source code and test sequences for implementation verification of the version 1.3 algorithm of the G.729 silence compression scheme. The software includes the modifications indicated in the corrigendum dated 02/98
G.729 Annex C (09/98)	This annex includes one diskette containing version 1.01 of reference C code for floating point implementation of the G.729 8 kbit/s CS-ACELP speech coder
G.729 Annex C+ (02/00)	This annex includes an electronic attachment containing version 2.1 of reference C code for floating point implementation of CS-ACELP at 6.4 kbit/s, 8 kbit/s and 11.8 kbit/s with DTX functionality
G.729 Annex D (09/98)	This annex includes one diskette containing version 1.2 of source C code for fixed point implementation of the G.729 6.4 kbit/s CS-ACELP speech coder
G.729 Annex E (09/98)	This annex includes 2 diskettes containing version 1.2 of source C code and test vectors for fixed point implementation of the G.729 11.8 kbit/s CS-ACELP speech coder
G.729 Annex F (02/00)	This annex includes an electronic attachment containing version 1.1 of reference C code and test vectors for fixed point implementation of CS-ACELP at 6.4 kbit/s and 8 kbit/s with DTX functionality
G.729 Annex G (02/00)	This annex includes an electronic attachment containing version 1.1 of reference C code and test vectors for fixed point implementation of CS-ACELP at 8 kbit/s and 11.8 kbit/s with DTX functionality
G.729 Annex H (02/00)	This annex includes an electronic attachment containing version 1.1 of reference C code and test vectors for fixed point implementation of CS-ACELP at 6.4 kbit/s, 8 kbit/s and 11.8 kbit/s with DTX functionality
G.729 Annex I (02/00)	This annex includes an electronic attachment containing version 1.1 of reference C code and test vectors for fixed point implementation of CS-ACELP at 6.4 kbit/s, 8 kbit/s and 11.8 kbit/s with DTX functionality
G.763 (10/98)	This Recommendation includes 2 diskettes. The first one contains A-Law and m-Law test vectors for DCME verification. The second one contains example transmit/receive SDLs
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G.967.2 (02/99)	This Recommendation includes one diskette containing the SDL process diagrams corresponding to the VB5.2 reference point
H.341 (05/99)	This Recommendation includes one diskette containing the formal descriptions of Annexes A, B, C, D and E for the multimedia management information base
H Supplement 1 (05/99)	This supplement includes one CD-ROM containing the video clip “Irene” to be used as test material for video coding of sign language
P.50 Appendix I (02/98)	This appendix includes one CD-ROM containing the speech database for telephonometry applications
P.501 (08/96)	This Recommendation includes one CD-ROM containing test signals for telephonometry applications
P.561 Appendix III (02/98)	This appendix includes one CD-ROM containing digital speech recordings for INMD devices testing
P.861 (02/98)	This Recommendation includes one diskette containing test vectors for implementation verification of the PSQM algorithm
	This supplement includes 3 CD-ROMs containing the ITU-T coded speech database

P Supplement 23 (02/98)	for 8 kbit/s codec tests
Q.784.2 (06/97)	This Recommendation includes one diskette containing Annex D ISUP'92 ATS for Basic Call in graphical and in machine processable form
Q.785.2 (03/99)	This Recommendation includes one CD-ROM containing the ISUP'97 ATS for Supplementary Services in machine processable form and in graphical form
Q.921 bis (03/93)	This Recommendation includes 5 diskettes containing postscript files of ATS for testing conformance of basic rate user side equipment to ITU -T Rec. Q.921
Q.933 bis (10/95)	This Recommendation includes one diskette containing Abstract test suites Section II corresponding to additional procedures for PVCs as per ITU -T Rec. Q.933 Annex A
Q.953.5 (12/99)	This Recommendation includes one diskette containing the SDL process diagrams of DSS1 CCNR in machine processable form
Q.1228 (09/97)	This Recommendation includes 3 diskettes containing ITU -T Rec. Q.1228 SDL diagrams in SDT source format and in PDF format
T.24 (06/98)	This Recommendation includes 2 CD-ROMs containing the digitized image set
T.83 (11/94)	This Recommendation includes 3 diskettes containing compliance test data for the generic encoder and decoder compliance tests
T.87 (06/98)	This Recommendation includes one diskette containing the JPEG -LS Lossless and near-lossless image compression reference implemen tation and a conformance testing image set
V.56 ter (08/96)	This Recommendation includes 2 diskettes containing the data files used for the voiceband duplex modems throughput tests
X.633 Add.1 (09/98)	This annex includes one diskette containing the SDT files of the SDL specifications of the Network Fast Byte protocol
X.634 Add.1 (09/98)	This annex includes one diskette containing the SDT files of the SDL specifications of the Transport Fast Byte protocol